Dell Threat Defense Installation and Administrator Guide

Powered by Cylance v17.06.16



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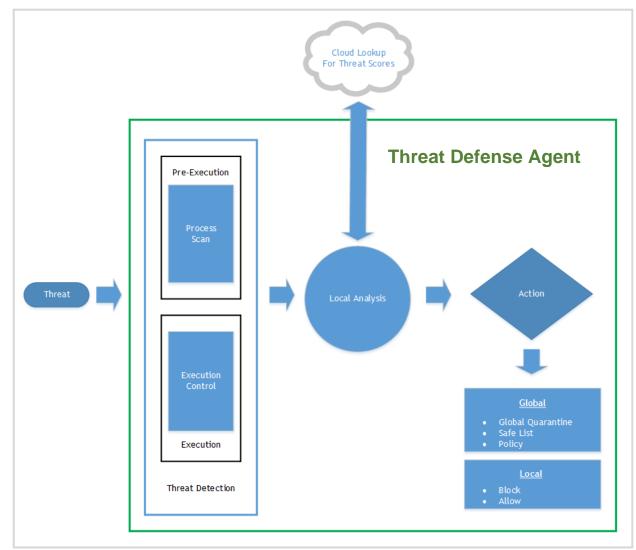
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OVERVIEW

Dell Threat Defense, powered by Cylance, detects and blocks malware before it can affect a device. Cylance uses a mathematical approach to malware identification, using machine learning techniques instead of reactive signatures, trust-based systems, or sandboxes. This approach renders new malware, viruses, bots, and future variants useless. Threat Defense analyzes potential file executions for malware in the Operating System.

This guide explains using the Threat Defense Console, installing the Threat Defense Agent, and how to configure both.



How it Works

Figure 1: Threat Defense Flowchart

Ι

Threat Defense consists of a small Agent, installed on each host that communicates with the cloud-based Console. The Agent detects and prevents malware on the host by using tested mathematical models, does not require continuous cloud connectivity or continual signature updates, and works in both open and isolated networks. As the threat landscape evolves, so does Threat Defense. By constantly training on enormous, real-world data sets, Threat Defense stays one step ahead of the attackers.

- **Threat**: When a threat is downloaded to the device or there is an exploit attempt.
- Threat Detection: How the Threat Defense Agent identifies threats.
 - **Process Scan**: Scans processes running on the device.
 - **Execution Control**: Analyzes processes upon execution only. This includes all files that run at startup, that are set to auto-run, and that are manually executed by the user.
- Analysis: How files are identified as malicious or safe.
 - **Cloud Lookup for Threat Scores**: The mathematical model in the cloud and is used to score files.
 - **Local**: The mathematical model included with the Agent. This allows analysis when the device is not connected to the Internet.
- Action: What the Agent does when a file is identified as a threat.
 - o Global: Checks policy settings, including the Global Quarantine and Safe Lists.
 - o Local: Checks for files manually *Quarantined* or *Waived*.

About This Guide

Dell recommends that users become familiar with the cloud-based Console before installing the Agent on endpoints. Understanding how endpoints are managed makes protecting and maintaining them easier. This workflow is a recommendation. Users can approach deploying in their environment in a way that makes sense for them.

Example: Zones help group devices in the organization. For example, configure a Zone with a Zone Rule that automatically adds new devices to a Zone based on selected criteria (such as Operating System, Device Name, or Domain Name).

Note: Instructions for installing the Agent come after learning about Policies and Zones. Users can start with installing the Agent if needed.

CONSOLE

The Threat Defense Console is a website that is logged in to, to view threat information for the organization. The Console makes it easy to organize devices in groups (Zones), configure what actions to take when threats are discovered on a device (Policy), and download the installation files (Agent).

The Threat Defense Console supports the following languages.

French	German	Italian	Japanese
Portuguese (Iberian)	Korean	Spanish	Portuguese (Brazilian)

 Table 1: Supported Threat Defense Console Languages

Login

Upon activation of your account, you will receive an email with your login information for the Threat Defense Console. Click the link in the email to go to the login page or go to:

- North America: <u>http://dellthreatdefense.com</u>
- Europe: <u>http://dellthreatdefense-eu.cylance.com</u>

Threat Defense
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$\overline{\mathbf{e}}$
User name
John_Smith@Dell.com
Password
Remember me
Log in
Forgot password Create account End user license agreement

Figure 2: Console Login

Ι

Device Policy

A policy defines how the Agent handles malware it encounters. For example, automatically *Quarantine* malware or ignore it if in a specific folder. Every device must be in a policy and only one policy can be applied to a device. Restricting a device to a single policy eliminates conflicting features (such as blocking a file when it should be Allowed for that device). The device is placed in the Default policy if no policy is assigned.

Only Execution Control is enabled for the Default policy, which analyzes processes upon execution only. This provides basic protection for the device, should not interrupt operations on the device, and provides time to test the policy features before deploying the policy in the production environment.

To Add a Policy

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Policies.
- 2. Select **Settings > Device Policy**.
- 3. Click Add New Policy.
- 4. Enter a Policy Name and select policy options.
- 5. Click Create.

File Actions

SETTINGS > Device Policy > [select a policy] > File Actions

File Actions provide different options for handling files detected by Threat Defense as either Unsafe or Abnormal.

Tip: To learn more about the classification of Unsafe or Abnormal files, refer to the Protection – Threats section.

Device Policy > Add New Policy			
Add New Policy			
Policy Name: TP Test 25 characters remaining			Create
File Actions Protection Settings Agent Set	ttings Script Control		
	Unsafe	Abnormal	
File Type	Auto Quarantine with Execution Control	Auto Quarantine with Execution Control	
EXECUTABLE	0		
Auto-Upload			
Policy Safe List Available for Agent version 1290 and higher.			
+ Add File III Remove from List			
🔲 Name 🕴 SHA	256 Hash : Cyla : Classifi : File :		
< < 0 > > 10 ▼ items per page			No items to display
is s w w w inclusive page			the reality to display

Figure 3: Policy Details > File Actions

Auto Quarantine with Execution Control

This feature *Quarantines* or blocks the *Unsafe* or *Abnormal* file to prevent it from executing. *Quarantining* a file moves the file from its original location to the *Quarantine* directory,

$\texttt{C:} \ \texttt{ProgramData} \ \texttt{Cylance} \ \texttt{Desktop} \ \texttt{q}.$

Some malware is designed to drop other files in certain directories. This malware continues to do so until the file is successfully dropped. Threat Defense modifies the dropped file so it will not execute to stop this type of malware from continually dropping the removed file.

Tip: Dell highly recommends that *Auto Quarantine* is tested on a small number of devices before applying it in the production environment. The test results should be observed to ensure that no business-critical applications are blocked at execution.

Auto Upload

Dell recommends that users enable Auto Upload for both *Unsafe* and *Abnormal* files. Threat Defense automatically uploads any detected *Unsafe* or *Abnormal* file to the Cylance Infinity Cloud to perform a deeper analysis of the file and provides additional details.

Threat Defense only uploads and analyzes unknown Portable Executable (PE) files. If the same unknown file is discovered on multiple devices in the organization, Threat Defense uploads one file only for analysis, not one file per device.

Policy Safe List

Add files that are considered safe, at the Policy level. The Agent will not apply any threat actions to files on this list.

For more information about handling file exceptions (*Quarantine* or *Safe*) at the different levels (*Local*, *Policy*, or *Global*), see <u>Appendix B: Handling Exceptions</u>.

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Policies.
- 2. Select **Settings > Device Policy**.
- 3. Add a new policy or edit an existing policy.
- 4. Click Add File under Policy Safe List.
- 5. Enter the SHA256 information. Optionally include the MD5 and File Name if known.

- 6. Select a **Category** to help identify what this file does.
- 7. Enter a reason for adding this file to the *Policy Safe List*.
- 8. Click Submit.

SHA256 MD5		Optional	
File name		Optional	
Category	None		•
Reason		65 character	s remaining

Figure 4: Add a File to the Policy Safe List

Protection Settings

SETTINGS > Device Policy > [select a policy] > Protection Settings

	,
Device Policy > Add New Policy	
Add New Policy	
Policy Name: TP Test 25 characters remaining	Create
File Actions Protection Settings Agent Settings Script Control	
Execution Control Threat Defense always watches for the execution of malicious processes and will alert when anything unsafe or abnormal attempts to run. Based on the options selected for 'Auto Quarantine with Execut	ion
Control' in the 'File Actions' settings, Threat Defense will also prevent the execution of unsafe and/or abnormal processes. Upon installation or restart, Threat Defense will analyze all running and loaded processes and modules to determine if any unsafe or abnormal objects are already active.	
Prevent service shutdown from device	
Kill unsafe running processes and their sub processes	

Figure 5: Policy – Protection Settings

Execution Control

Threat Defense always watches for the execution of malicious processes and alerts when anything *Unsafe* or *Abnormal* attempts to run.

Prevent service shutdown from device

If selected, the Threat Defense service is protected from being shutdown either manually or by another process.

Copy Malware Samples

Allows specification of a network share in which to copy malware samples. This allows users to do their own analysis of files Threat Defense considers *Unsafe* or *Abnormal*.

- Supports CIFS/SMB network shares.
- Specify one network share location. Example: **c:\test**.
- All files meeting the criteria are copied to the network share, including duplicates. No uniqueness test is performed.
- Files are not compressed.
- Files are not password protected.

WARNING: FILES ARE NOT PASSWORD PROTECTED. CARE MUST BE TAKEN SO THE MALICIOUS FILE IS NOT INADVERTENTLY EXECUTED.

Script Control

Script control protects devices by blocking malicious Active Script and PowerShell scripts from running.

- 1. Log in to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Select **Settings > Device Policy**.
- 3. Select a policy and click **Protection Settings**.
- 4. Select the check box to enable **Script Control**.
 - a. Alert: Monitor scripts running in the environment. Recommended for initial deployment.
 - b. Block: Only allow scripts to run from specific folders. Use after testing in Alert Mode.
 - c. **Approve scripts in these folders (and subfolders)**: Script folder exclusions must specify the relative path of the folder.
 - d. **Block PowerShell Console usage**: Blocks the PowerShell console from launching. This provides additional security by protecting against the use of PowerShell one-liners.

Note: If the script launches the PowerShell console, and Script Control is set to block the PowerShell console, the script will fail. It is recommended that users change their scripts to invoke the PowerShell scripts, not the PowerShell console.

5. Click Save.

Agent Version Active Script Powershell Macros 1370 and Below Alert Block N/A Image: Image	
Available for Agent version 1310 and higher. Agent Version Active Script Powershell Macros 1370 and Below Alert Block N/A Image: Im	
Available for Agent version 1310 and higher. Agent Version Active Script Powershell Macros 1370 and Below Alert Block N/A Image: Im	
Available for Agent version 1310 and higher. Agent Version Active Script Powershell Macros 1370 and Below Alert Block N/A Image: Im	
Agent Version Active Script Powershell Macros 1370 and Below Alert Block N/A Image: Image	
Alert Block N/A	
1370 and Below N/A	5
• •	
1380 and Above Alert Block Alert Block Alert	Block
(a) (b) (c) (c)	0

Figure 6: Policy Details > Script Control

Agent Logs

SETTINGS > Device Policy > [select a policy] > Agent Logs

Enable Agent Logs in the Console to upload log files and allow viewing in the Console.

- 1. Log in to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Select **Settings > Device Policy**.
- 3. Select a policy and click **Agent Logs**. Ensure the device selected for log files is assigned to this policy.
- 4. Select Enable auto-upload of log files and click Save.
- 5. Click the **Devices** tab and select a device.
- 6. Click **Agent Logs**. The log files display.
- 7. Click a log file. The log file name is the date of the log.

Threat Defense				
ht Dashboard 🛛 🕅 Protection 🛛 🕷 Zoi	nes 🗖 Devices 🏘 Settings			
Threats & Activities Threats (1) Agent Logs Script Control (0) Available for Agent version 1280 and higher. Upload Current Log File				
Name 🗸 📑	File name	Ŧ	When	Ŧ
2017-06-01.log	59704		06/01/17 9:11 AM	*
< < 1 > > 50 ▼ items per page				1 - 1 of 1 items

Figure 7: Devices > [select a device] > Agent Logs

Policy Best Practices

When policies are first created, Dell recommends implementing policy features in a phased approach to ensure that performance and operations are not impacted. Create new policies with more features enabled as the understanding of how Threat Defense works in the environment.

- 1. When creating initial policies, enable Auto-Upload only.
 - a. The Agent uses Execution Control and Process Monitor to analyze running processes only.

This includes all files that run at startup, that are set to auto-run, and that are manually executed by the user.

The Agent only sends alerts to the Console. No files are blocked or Quarantined.

b. Check the Console for any threat alerts.

The goal is to find any applications or processes that are required to run on the endpoint that are considered a threat (*Abnormal* or *Unsafe*).

Configure a policy or Console setting to *Allow* these to run if this happens (for example, *Exclude* folders in a policy, *Waive* the files for that device, or add the files to the *Safe List*).

c. Use this initial policy for a day to allow applications and processes that are typically used on the device to run and be analyzed.

IMPORTANT: There may be applications and processes that run periodically on a device (for example, once a month) that might be considered a threat. It is up to you to decide if you want to run that during this initial policy or remember to monitor the device when it runs as scheduled.

2. Under Protection Settings, enable **Kill Unsafe Running Processes** after Execution Control and Process Monitor are complete.

Kill Unsafe Running Processes and their Sub Processes kills processes (and sub-processes), regardless of state, when a threat is detected (EXE or MSI).

3. Under File Actions, turn on Auto-Quarantine.

Auto-Quarantine moves any malicious files to the Quarantine folder.

4. Under Protection Settings, turn on Script Control.

Script Control protects users from malicious scripts running on their device.

Users can approve scripts to run for specified folders.

Script Control folder exclusions must specify a relative path of the folder (for example, \Cases\ScriptsAllowed).

Zones

A Zone is a way to organize and manage devices. For example, devices can be split up based on geography or function. If there is a group of mission-critical devices, those devices can be grouped together and high priority assigned to the Zone. Additionally, policies are applied at the Zone level, so devices can be grouped together in a Zone based on the policy that is applied to those devices.

An organization has a default Zone (Unzoned) that only Administrators can access. New devices are assigned to Unzoned, unless there are Zone Rules that automatically assign devices to Zones.

Zone Managers and Users can be assigned to Zones, allowing them to view how that Zone is configured. This also allows Zone Managers and Users to access devices they are responsible for. At least one Zone must be created to allow anyone with a Zone Manager or User role to view it.

A device can belong to multiple Zones, but only one policy can be applied to a device. Allowing multiple Zones provides some flexibility in how devices are grouped. Restricting a device to a single policy eliminates conflicting features (for example, blocking a file when it should be *Allowed* for that device).

Devices existing in multiple Zones could occur for the following reasons:

- The device is manually added to multiple Zones
- The device complies with the rules of more than one Zone
- The device already resides in one Zone and then complies with rules of another Zone

For recommended ways to use Zones, see Zone Management Best Practices.

To Add a Zone

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Zones.
- 2. Click Zones.
- 3. Click Add New Zone.
- 4. Enter a Zone Name, select a Policy, and select a Value. A Zone must have an associated Policy. The Value is the Priority for the Zone.
- 5. Click Save.

To Add Devices to a Zone

- 1. Login to the Console (http://dellthreatdefense.com) with an Administrator or Zone Manager account.
- 2. Click Zones.
- 3. Click a Zone from the *Zones List*. The current devices in that Zone display in the *Zones Device List*, at the bottom of the page.
- 4. Click Add Devices to Zone. A list of devices displays.
- 5. Select each device to add to the Zone and click **Save**. Optionally select **Apply zone policy to selected devices**. Adding a device to a Zone does not automatically apply the Zone Policy because a Zone might be being used to organize devices, not manage the policy for those devices.

1

To Remove a Zone

- 1. Log in to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can remove Zones.
- 2. Click Zones.
- 3. Select the check boxes for the Zones to remove.
- 4. Click Remove.
- 5. Click Yes at the message asking for confirmation of the selected Zone removal.

Zone Properties

Zone properties can be edited as needed.

About Zone Priority

Zones can be assigned different priority levels (Low, Normal, or High) that classify the significance or criticality of the devices in that Zone. In several areas of the dashboard, devices are displayed by priority to help identify which devices need to be addressed immediately.

The priority can be set when a Zone is created or edit the Zone to change the priority value.

To Edit Zone Properties

- 1. Login to the Console (http://dellthreatdefense.com) as an Administrator or Zone Manager.
- 2. Click Zones.
- 3. Click a Zone from the Zones List.
- 4. Enter a new name in the **Name** field to change the Zone Name.
- 5. Select a different policy from the **Policy** dropdown menu to change the policy.
- 6. Select a Low, Normal, or High Value.
- 7. Click Save.

Name	Memory Protection	
	15 characters remaining	
Policy	Memory Protection ON	Ŧ
	Apply to all devices in this z	one
Value	🔵 Low 💿 Normal 🤇	High
		Save

Figure 8: Change Zone Properties

Zone Rule

Devices can be automatically assigned to a Zone based on certain criteria. This automation is beneficial when adding numerous devices to Zones. When new devices are added that match a Zone Rule, those devices are automatically assigned to that Zone. If **Apply now to all existing devices** is selected, all pre-existing devices that match the rule are added to that Zone.

Note: Zone Rules automatically add devices to a Zone but cannot remove devices. Changing the device's IP address or hostname does not remove that device from a Zone. Devices must be removed manually from a Zone.

There is an option to apply the Zone Policy to devices that are added to the Zone as a result of matching the Zone Rule. This means the device's existing policy is replaced by the specified Zone Policy. Automatically applying a policy based on the Zone Rule should be used with care. A device could be assigned to the wrong policy because the device matched a Zone Rule if not properly managed.

View the Device Details page in the Console to view which policy is applied to a device.

To Add a Zone Rule

- 1. Login to the Console (http://dellthreatdefense.com) as an Administrator or Zone Manager.
- 2. Click **Zones** and select a Zone from the *Zones List*.
- 3. Click Create Rule under Zone Rule,
- 4. Specify the criteria for the selected Zone. Click the plus sign to add more conditions. Click the minus sign to remove a condition.
- 5. Click Save.

Zone Rule	×
 When a new device is added to the organization When any attribute of a device has changed If All of the following conditions are met: 	
IPv4 address in range v to	+ -
Apply now to all existing devices	Save Cancel

Figure 9: Zone Rule

Zone Rule Criteria

- When a new device is added to the organization: Any new device added to the organization that matches the Zone Rule, is added to the Zone.
- When any attribute of a device has changed: When attributes on an existing device change and then match the Zone Rule, that existing device is added to the Zone.
- IPv4 Address in Range: Enter an IPv4 address range.
- Device Name:
 - Starts With: Device names must start with this.
 - Contains: Device names must contain this string, but it can be anywhere within the name.
 - Ends With: Device names must end with this.
- Operating System:
 - Is: Operating System must be the selected system.
 - Is Not: Operating System must not be the selected system. For example, if the only Zone Rule states that the Operating System must not be Windows 8, then all Operating Systems, including non-Windows devices, are added to this Zone.
- Domain Name:
 - o Starts With: Domain name must start with this.
 - Contains: Domain name must contain this string, but it can be anywhere within the name.
 - Ends With: Domain name must end with this.
- Distinguished Name:
 - o Starts With: Distinguished name must start with this.
 - o Contains: Distinguished name must contain this string, but it can be anywhere within the name.
 - o Ends With: Distinguished name must end with this.
- Member Of (LDAP):
 - o Is: The Member Of (Group) must match this.
 - Contains: The Member Of (Group) must contain this.
- Following Conditions Met:
 - o All: All conditions in the Zone Rule must match to add the device.
 - o Any: At least one condition in the Zone Rule must match to add the device.

- Zone Policy Apply:
 - o Do not apply: Do not apply the Zone Policy as devices are added to the Zone.
 - o Apply: Apply the Zone Policy as devices are added to the Zone.

Warning: Automatically applying a Zone Policy might negatively impact some of the devices on the network. Automatically apply the Zone Policy *only* if certain that the Zone Rule will *only* find devices that *must* have this particular Zone Policy.

• **Apply Now to All Existing Devices**: Applies the Zone Rule to all devices in the organization. This does not apply the Zone Policy.

About Distinguished Names (DN)

Some things to know about Distinguished Names (DN) when using them in Zone Rules.

- Wildcards are not allowed, but the "Contains" condition accomplishes similar results.
- DN errors and exceptions related to the Agent are captured in the log files.
- If the Agent finds DN information on the device, that information is automatically sent to the Console.
- When adding DN information, it must be properly formatted, as follows.
 - o Example: CN=JDoe,OU=Sales,DC=dell,DC=COM
 - Example: OU=Demo,OU=SEngineering,OU=Sales

Zones Device List

The *Zones Device List* displays all devices assigned to this Zone. Devices can belong to multiple Zones. Use **Export** to download a CSV file with information for all devices on the *Zone Device List*.

Note: If permission to view a Zone do not exist, and the Zone link in the Zones column is clicked anyway, a Resource Not Found page displays.

Zone Management Best Practices

Zones are best thought of as tags, where any device can belong to multiple Zones (or have multiple tags). While there are no restrictions on the number of Zones that can be created, best practices identifies three different Zone memberships between testing, policy, and user-role granularity within the organization.

These three Zones consist of:

- Update Management
- Policy Management
- Role-based Access Management

Zone Organization for Update Management

One common usage of Zones is to help manage Agent Updates. Threat Defense supports the latest Agent version and the previous version. This enables the enterprise to support change freeze windows, and do thorough testing of new Agent versions.

There are three suggested Zone types used to direct and specify the Agent testing and production phases:

- Update Zone Test Group: These Zones should have test devices that properly represent devices (and software used on those devices) in the organization. This allows testing of the latest Agent and ensures deploying this Agent to the Production devices does not interfere with business processes.
- Update Zone Pilot Group: This Zone can be used as either a secondary Test Zone or as a secondary Production Zone. As a secondary Test Zone, this would allow testing new Agents on a larger group of devices before rollout to Production. As a secondary Production Zone, this would allow two different Agent versions but then you must manage two different Production Zones.
- Update Zone Production: Most devices should be in Zones assigned to Production.

Note: For updating the Agent to the Production Zone, see Agent Update.

Add a Test or Pilot Zone

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) with an Administrator or Zone Manager account.
- 2. Select Settings > Agent Update.
- 3. For Test or Pilot Zones:
 - a. Click Select Test Zones or Select Pilot Zones.
 - b. Click a Zone.

If the Production Zone is set to **Auto-Update**, the Test and Pilot Zones are not available. Change Auto-Update in the Production Zone to something else to enable the Test and Pilot Zones.

4. Click **Please Select Version**.

- 5. Select an Agent version to apply to the Test or Pilot Zone.
- 6. Click Apply.

🔞 Threat Defense									L ~
III Dashboard	Protection S Zones	Devices	Settings						
Settings Application Last saved by	User Management on 5/26/2017 1:55:	Device Policy 09 PM	Global List	Update	Certificates				
Update Test ckb_update_zon	ie_pi_405 (1) X		2.0.1432			T	Versions Version Release Date	2.0.1432 Not Available	
Pilot Select Pilot Zones			- Please Select Versic	in -		¥	Version Release Date	2.0.1422 Not Available	
Production All devices not in	Test or Pilot zones		Do Not Update		1	Apply	Date		

Figure 10: Zone-based Updating

Zone Organization for Policy Management

Another set of Zones to create helps apply different policies to different types of endpoints. Consider the following examples:

- Policy Zone Workstations
- Policy Zone Workstations Exclusions
- Policy Zone Servers
- Policy Zone Servers Exclusions
- Policy Zone Executives High Protection

Dell suggests applying a policy by default to all devices in this Policy Zone in each one of these Zones. Be careful not to put one device in multiple Policy Zones, as this can create a conflict over which policy is applied. Also remember that the Zone Rule engine can help automatically organize these hosts based on IP, Hostname, Operating System, and Domain.

Zone Organization for Role-based Access Management

Role-based access is used to limit a Console user's access to a subset of devices they are responsible for managing. This might include separation by IP Range, Host Names, Operating System, or Domain. Consider groupings by geographical location, type, or both.

Example:

- RBAC Zone Desktops Europe
- RBAC Zone Servers Asia
- RBAC Zone Red Carpet (Executives)

Using the above Zone examples, a Zone Manager could be assigned to *RBAC Zone – Desktops – Europe*, and would only have access to devices within that Zone. If the Zone Manager user tried to view the other Zones, an error message stating they do not have permission to view it would be received. While a device could be in multiple Zones, and the Zone Manager would be able to view that device, if they tried to view the other Zones the device is associated with, they would not be allowed to, and would see the error message.

In other parts of the Console, such as the dashboard, the Zone Manager for *RBAC Zone – Desktops – Europe* would also be limited to threats and other information related to the Zone or devices assigned to that Zone.

The same restrictions apply to Users assigned to a Zone.

User Management

Administrators have global permissions and can add or remove users, assign users to Zones (either as a User or a Zone Manager), add or remove devices, create policies, and create Zones. Administrators can also delete users, devices, policies, and Zones permanently from the Console.

Users and Zone Managers only have access and privileges pertaining to the Zone to which they are assigned. This applies to devices assigned to the Zone, threats found on those devices, and information on the dashboard.

For a comprehensive list of user permissions allowed for each user, see Appendix C: User Permissions.

To Add Users

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Users.
- 2. Select **Settings > User Management**.
- 3. Enter the user's email address.
- 4. Select a Role in the Role dropdown menu.
- 5. When adding a Zone Manager or User, select a Zone to assign them to.
- 6. Click Add. An email is sent to the user with a link to create a password.

ser@email.com				
User	•	DY Test	•	Add

Figure 11: Add Users

To Change User Roles

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Users.
- 2. Select **Settings > User Management**.
- 3. Click a user. The User Details page displays.
- 4. Select a role and click **Save**.

To Remove Users

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can create Users.
- 2. Select **Settings > User Management**.
- 3. Select the check box for the user or users to remove.
- 4. Click Remove.
- 5. Click **Yes** at the message asking for confirmation of the removal.

Network Related

Configure the network to allow the Threat Defense Agent to communicate with the Console over the Internet. This section covers firewall settings and proxy configurations.

Firewall

No on-premises software is required to manage devices. Threat Defense Agents are managed by and report to the Console (cloud-based user interface). Port 443 (HTTPS) is used for communication and must be open on the firewall in order for the Agents to communicate with the Console. The Console is hosted by Amazon Web Services (AWS) and does not have any fixed IP addresses. Ensure that Agents can communicate with the following sites:

- login.cylance.com
- data.cylance.com
- my.cylance.com
- update.cylance.com
- api2.cylance.com
- download.cylance.com

Alternatively, allow HTTPS traffic to *.cylance.com.

Proxy

Proxy support for Threat Defense is configured through a registry entry. When a proxy is configured, the Agent uses the IP address and port in the registry entry for all outbound communications to the Console Servers.

1. Access the registry.

Note: Elevated privileges or taking ownership of the registry may be required depending on how the Agent was installed (Protected Mode enabled or not).

- 2. In Registry Editor, navigate to **HKEY_LOCAL_MACHINE\SOFTWARE\Cylance\Desktop**.
- 3. Create a new String Value (REG_SZ):
 - Value Name = ProxyServer
 - Value Data = proxy settings (for example, http://123.45.67.89:8080)

The Agent attempts to use the credentials of the currently logged in user to communicate out to the Internet in authenticated environments. If an authenticated proxy server is configured and a user is not logged onto the device, the Agent cannot authenticate to the proxy and cannot communicate with the Console. In this instance, either:

- Configure the proxy and add a rule to allow all traffic to *.cylance.com.
- Use a different proxy policy, allowing for unauthorized proxy access to Cylance hosts (*.cylance.com).

By doing this, if no user is logged onto the device, the Agent does not need to authenticate and should be able to connect to the cloud and communicate with the Console.

Devices

Once an Agent is installed on an endpoint, it becomes available as a device in the Console. Begin to manage devices by assigning policy (to handle identified *Threats*), group devices (using *Zones*), and manually take actions on each device (*Quarantine* and *Waive*).

Device Management

Devices are computers with a Threat Defense Agent. Manage devices from the Console.

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator. Only Administrators can manage Devices.
- 2. Click Devices.
- 3. Select a device check box to allow the following actions:
 - **Export**: Creates and downloads a CSV file. The file contains device information (Name, State, and Policy) for all devices in the organization.
 - **Remove**: Removes selected devices from the *Device List*. This does not uninstall the Agent from the device.
 - Assign Policy: Allows assignment of the selected devices to a policy.
 - Add to Zones: Allows adding the selected devices to a Zone or Zones.
- 4. Click a device to display the Device Details page.
 - **Device information**: Displays information such as Hostname, Agent Version, and Operating System Version.
 - **Device Properties**: Allows changing the Device Name, Policy, Zones, and Logging Level.
 - Threats & Activities: Displays threat information and other activities related to the device.
- 5. Click **Add new device** to display a dialog with an Installation Token and links to download the Agent installer.
- 6. In the Zones column, click a Zone Name to display the Zone Details page.

Threats & Activities

Displays threat information and other activities related to the selected device.

Threats

Displays all threats found on the device. By default, the threats are grouped by status (*Unsafe*, *Abnormal*, *Quarantined*, and *Waived*).

- **Export**: Creates and downloads a CSV file that contains information for all threats found on the selected device. Threat information includes information such as Name, File Path, Cylance Score, and Status.
- Quarantine: *Quarantines* the selected threats. This is a *Local Quarantine*, meaning this threat is only *Quarantined* on this device. To *Quarantine* a threat for all devices in the organization, ensure that the **Also, quarantine this threat any time it is found on any device** check box is selected (*Global Quarantine*) when a file is *Quarantined*.
- Waive: Changes the status of the selected threats to *Waived*. A *Waived* file is allowed to run. This is a *Local Waive*, meaning this file is only allowed on this device. To allow this file on all devices in the organization, select the **Also, mark as safe on all devices** check box (*Safe List*) when a file is *Waived*.

Exploit Attempts

Displays all exploit attempts on the device. This includes information about the Process Name, ID, Type, and Action taken.

Agent Logs

Displays log files uploaded by the Agent on the device. The log file name is the date of the log.

To view Agent log files:

- 1. Upload the Current Log File for a single device.
 - a. Click Devices > Agent Logs.
 - b. Click Upload Current Log File. This could take a few minutes, depending on the size of the log file.

OR

- 1. Policy settings:
 - a. Click Settings > Device Policy > [select a policy] > Agent Logs.
 - b. Click Enable auto-upload of log files.
 - c. Click Save.

To view verbose logs, change the Agent Logging Level before any log files are uploaded.

- 1. In the Console: **Devices** > **[click a device]**, select **Verbose** from the Agent Logging Level drop-down menu, and click **Save**. After the verbose log files are uploaded, Dell recommends changing the Agent Logging Level back to *Information*.
- 2. On the device, close the Threat Defense user interface (right-click the Threat Defense icon in the system tray, then click **Exit**).

OR

1. Open the Command Line as an Administrator. Enter the following command line and then press Enter.

cd C:\Program Files\Cylance\Desktop

L

2. Enter the following command line and then press Enter.

Dell.ThreatDefense.exe -a

3. The Threat Defense icon displays in the system tray. Right-click, select **Logging**, then click **All** (same as Verbose in the Console).

OR (For Mac OS X)

- 1. Exit the currently running user interface.
- 2. Execute the following command from terminal.

sudo /Applications/Cylance/CylanceUI.app/Contents/MacOS/CylanceUI -a

3. Right-click the new user interface once it opens. Select **Logging > All**.

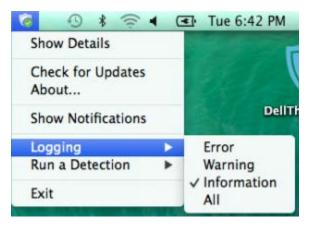


Figure 12: Mac OS X Verbose Logging

Script Control

Displays all activities relevant to Script Control, such as denied scripts.

Duplicate Devices

When the Threat Defense Agent is first installed on a device, a unique identifier is created that is used by the Console to identify and reference that device. However, certain events, such as using a virtual machine image to create multiple systems, may cause a second identifier to be generated for the same device. Select the device and click **Remove** if a duplicate entry displays on the Devices page in the Console.

To aid in identifying such devices, use the column sorting feature on the Devices page to sort and compare the devices, typically by device name. Alternately, the *Devices List* can be exported as a .CSV file and then viewed in Microsoft Excel or something similar which has powerful sorting/organizing features.

Example using Microsoft Excel

- 1. Open the device CSV file in Microsoft Excel.
- 2. Select the device name column.
- 3. From the Home tab, select Conditional Formatting > Highlight Cell Rules > Duplicate Values.
- 4. Ensure that **Duplicate** is selected, then select a highlight option.
- 5. Click OK. Duplicate items are highlighted.

Note: The Remove command only removes the device from the Device page. This does not issue an uninstall command to the Threat Defense Agent. The Agent needs to be uninstalled at the endpoint.

Agent Update

Maintenance and management of Threat Defense Agents are hassle-free. Agents automatically download updates from the Console, and the Console is maintained by Cylance.

The Agent checks in with the Console every 1-2 minutes. The Console reports the Agent's current state (*Online* or *Offline*, *Unsafe* or *Protected*), Version Information, Operating System, and Threat Status.

Threat Defense releases updates to the Agent on a monthly basis. These updates can include configuration revisions, new modules, and program changes. When an Agent update is available (as reported by the Console under Settings > Agent Updates), the Agent automatically downloads and applies the update. In order to control network traffic during Agent updates, all organizations are set to accommodate a maximum of 1000 device updates simultaneously. Users can also <u>disable the Auto Update</u> feature if they prefer.

Note: The maximum number of devices for simultaneous update can be modified by Dell Support.

Zone-based Updating

Zone-based Updating allows an organization to evaluate a new Agent on a subset of devices before deploying it to the entire environment (Production). One or more current Zones can be temporarily added to one of two Testing Zones (Test and Pilot) which can use a different Agent than Production.

To Configure Zone-based Updates:

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) with an Administrator account.
- 2. Select **Settings > Agent Update**. The three latest Agent versions are displayed.

If the Production Zone is set to **Auto-Update**, the Test and Pilot Zones are not available. Change Auto-Update in the Production Zone to something else to enable the Test and Pilot Zones.

- 3. Select a specific Agent version in the Production dropdown list.
- 4. For Production, also select Auto-Update or Do Not Update.
 - a. **Auto-Update** allows all Production devices to automatically update to the latest version in the *Supported Agent Versions List.*
 - b. Do Not Update prohibits all Production devices from updating the Agent.
- 5. For the Test Zone, choose one or more Zones from the Zone dropdown list, then select a specific Agent version from the version dropdown list.
- 6. If desired, repeat step 5 for the Pilot Zone.

Note: When a device is added to a Zone that is part of the Test or Pilot Zone, that device starts using the Test or Pilot Zone's Agent version. If a device belongs to more than one Zone, and one of those Zones belongs to either the Test or Pilot Zone, the Test or Pilot Zone Agent version takes precedence.

Threat Defer	nse							John_Smith 🚢 ~
I Dashboard	Protection	N Zones	Devices	• Settings				
ettings								
Application	User Manage	ment D	evice Policy	Global List	Agent Update			
ast saved by	on 1/11/2	016 12:27:50 P	М					
Update						Versions		
Test						Version	12.1340	
DDPE (2)	×		Select version		w.	Release date	01/06/16	
Pilot Updated 1	of 1 device							
DDPSuite (1)	×		1.2.134	0	*	Version	1.2.1330	
Production Upo	lated 18 of 18 device	es. Unable to up	date 64 offline devi	ces.:		Release date	12/16/15	
	test or pilot zones		1.2.134		Ψ.			

Figure 13: Agent Updates

To Trigger an Agent Update

To trigger an Agent update prior to the next hourly interval:

- 1. Right-click the Threat Defense Agent icon in the system tray, and select Check for Updates.
- 2. Restart the Threat Defense service. This forces it to immediately check in with the Console.

OR

• Updates can be initiated from the command line. Run the following command from the Cylance directory:

Dell.ThreatDefense.exe - update

Dashboard

The Dashboard page displays once logged in to the Threat Defense Console. The Dashboard provides an overview of threats in the environment and provides access to different Console information from one page.

Threat Statistics

Threat Statistics provide the number of threats found within the *Last 24 Hours* and the *Total* for the organization. Click a *Threat Statistic* to go to the Protection page and display the list of threats related to that statistic.

- **Running Threats**: Files identified as threats that are currently running on devices in the organization.
- Auto-Run Threats: Threats set to run automatically.
- Quarantined Threats: Threats *Quarantined* within the last 24 hours and the total.
- Unique to Cylance: Threats identified by Cylance but not by other anti-virus sources.



Figure 14: Threat Statistics

Protection Percentages

Displays percentages for Threat Protection and Device Protection.

- **Threat Protection**: The percentage of threats which have had action taken (Quarantine, Global Quarantine, Waive, and Safe Lists).
- **Device Protection**: The percentage of devices associated with a policy that has Auto-Quarantine enabled.

Threats by Priority

Displays the total number of threats that require an action (*Quarantine*, *Global Quarantine*, *Waive*, and *Safe Lists*). The threats are grouped by priority (High, Medium and Low). This overview displays the total number of threats that require an action, separates that total by priority, provides a percentage total, and how many devices are affected.

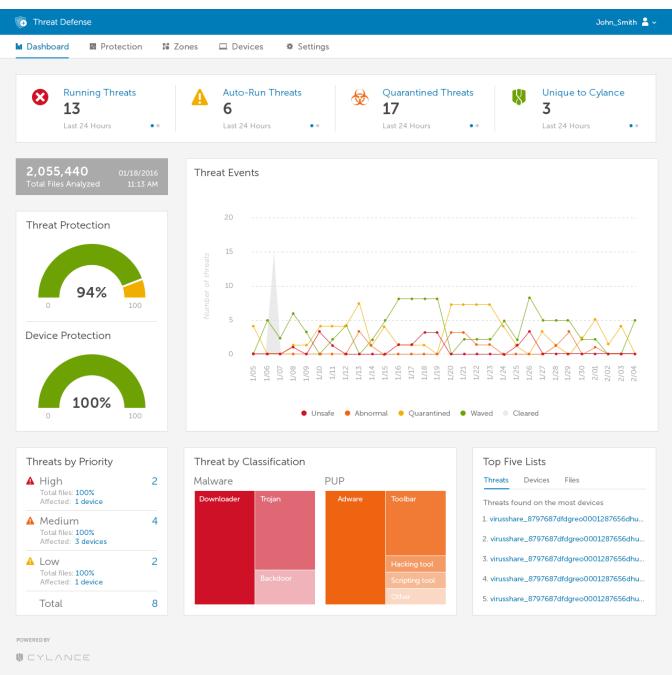


Figure 15: Threat Defense Dashboard

Ι

Threats are listed by priority in the lower left corner of the Dashboard page. Specified are the total number of threats in an organization grouped by their priority classifications.

A threat is classified as Low, Medium, or High based on the number of the following attributes it has:

- The file has a Cylance score greater than 80.
- The file is currently running.
- The file has been run previously.
- The file is set to auto run.
- The priority of the Zone where the threat was found.

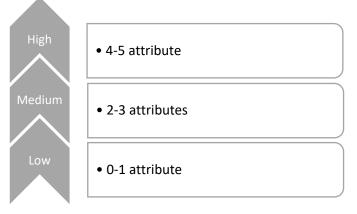


Figure 16: Threat Classifications

This classification helps Administrators determine which threats and devices to address first. Click either the threat or Device Number to view threat and Device details.

Threat Events

Displays a line graph with the number of threats discovered over the last 30 days. Lines are color coded for *Unsafe*, *Abnormal*, *Quarantined*, *Waived*, and *Cleared* files.

- Hover over a point on the graph to view the details.
- Click one of the colors in the legend to show or hide that line.

Threat Classifications

Displays a heat map of the types of threats found in the organization, such as viruses or malware. Click an item in the heat map to go to the Protection page and display a list of threats of that type.

Top Five Lists

Displays lists for the Top Five Threats found on the most devices, the Top Five Devices with the most threats, and the Top Five Zones with the most threats in the organization. Click a list item for more details.

The Top Five Lists on the dashboard highlight *Unsafe* threats in the organization that have not been acted upon, such as *Quarantined* or *Waived*. Most of the time these lists should be empty. While *Abnormal* threats should also be acted upon, the focus of the Top Five Lists is to bring critical threats to your attention.

L

Protection – Threats

Threat Defense can do more than simply classify files as *Unsafe* or *Abnormal*. It can provide details on the static and dynamic characteristics of files. This allows administrators to not only block threats, but to understand threat behavior in order to further mitigate or respond to threats.

File Type

Unsafe: A file with a score ranging from 60-100. An *Unsafe* file is one that the Threat Defense engine finds attributes that greatly resemble malware.

Abnormal: A file with a score ranging from 1-59. An Abnormal file has a few malware attributes but less than an *Unsafe* file, thus is less likely to be malware.

Note: Occasionally, a file may be classified as *Unsafe* or *Abnormal* even though the score displayed does not match the range for the classification. This could result from updated findings or additional file analysis after the initial detection. For the most up-to-date analysis, enable Auto Upload in the Device Policy.

Cylance Score

A Cylance score is assigned to each file that is deemed *Abnormal* or *Unsafe*. The score represents the confidence level that the file is malware. The higher the number, the greater the confidence.

Viewing Threat Information

The Protection tab on the Console displays detailed threat information, the Devices where the threats were found, and the actions taken on those Devices for those threats.

Note: The *Threat List* on the Protection tab has configurable columns. Click the down-arrow on any column to access the menu, then Show/Hide various threat details. The menu includes a filtering submenu.

To View Threat Details

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Click the **Protection** tab to display a list of threats found in that organization.

3. Use the filter on the left menu bar to filter by Priority (High, Medium, or Low) and Status (*Quarantined*, *Waived*, *Unsafe*, or *Abnormal*).

Note: Numbers that are displayed in red on the left pane indicate outstanding threats that have not been *Quarantined* or *Waived*. Filter on those items to view a list of files that need to be examined.

Figure 17: Protection Page Threat Filters

- 4. To add columns so additional threat information can be viewed, click the down arrow next to one of the column names, then select a column name.
- 5. To view additional information on a specific threat, either click the threat name link (details display on a new page) or click anywhere in the threat's row (details display at the bottom of the page). Both views show the same content but have different presentation styles. The details include an overview of file metadata, a list of devices with the threat, and evidence reports.
 - a. File Metadata
 - Classification [assigned by the Cylance Advanced Threat and Alert Management (ATAM) Team]
 - Cylance score (confidence level)
 - AV Industry conviction (links to VirusTotal.com for comparison to other vendors)
 - Date first found, Date last found
 - SHA256
 - MD5

- File Information (author, description, version, and so forth)
- Signature Details
- b. Devices

The *Device/Zone List* for a threat can be filtered by the threat's state (*Unsafe, Quarantined, Waived*, and *Abnormal*). Click the state filter links to show the devices with the threat in that state.

- Unsafe: The file is classified as Unsafe, but no action has been taken.
- *Quarantined*: The file was already *Quarantined* due to a policy setting.
- Waived: The file was Waived or White Listed by the Administrator.
- *Abnormal*: The file is classified as *Abnormal*, but no action has been taken.
- c. Evidence Reports
 - **Threat Indicators**: Observations about a file that the Cylance Infinity engine has analyzed. These indicators help understand the reason for a file's classification and provide insight into a file's attributes and behavior. Threat Indicators are grouped into categories to aid in context.
 - **Detailed Threat Data**: Detailed Threat Data provides a comprehensive summary of the static and dynamic characteristics of a file including additional file metadata, file structure details, and dynamic behaviors such as files dropped, registry keys created or modified, and URLs that it attempted to communicate with.

Effected Devices & Zone	es Evidence Reports
Threat Indicators De	etailed Threat Data
Anomalies (1 of 20)	
 This object imports fur follow. 	nctions used to raise exceptions within a program. Malware does this to implement tactics that make standard dynamic code analysis difficult to
Collection (1 of 21)	
	nctions that are used to gather information about the current operating system. Malware uses this to determine how to better tailor further attacks tion back to a controller.
DataLoss (0 of 12)	
Deception (2 of 22)	
	nctions that would allow it to act like a debugger. Malware uses this capability to read and write from other processes. i invisibly, but it isn't a background service. It might be designed to remain hidden.
Destruction (0 of 13)	
Misc (0 of 8)	
Full list of Threat Indicators	

Figure 18: Threat Indicators

Threat Indicator	Detailed Threat Data	0		
Info Static	Dropped Network	Behavior		
General				
Category	Sta	arted On	Completed On	Duration
FILE	20:	14-10-10 11:13:40	2014-10-10 11:14:44	64 seconds
ile Details				
File name	5525719812D8A2A318EB	44EEBB476E6C29867E7FI	D10208125EF5ADFD9E73A423	
	5525719812D8A2A318EB	44EEBB476E6C29867E7FI	D10208125EF5ADFD9E73A423	
name	110936 bytes	44EEBB476E6C29867E7FI tel 80386, for MS Window:		
name File size	110936 bytes			
name File size File type	110936 bytes PE32 executable (GUI) Int	tel 80386, for MS Window:		
name File size File type CRC32	110936 bytes PE32 executable (GUI) Int 52046B0A	tel 80386, for MS Window: 33733f19affc		
name File size File type CRC32 MD5	110936 bytes PE32 executable (GUI) Int 52046B0A cbb0857b4e4c5d947a09 8dfe6f6f1d40df88a6ae1c	tel 80386, for MS Window: 33733f19affc caa4b5455bb1474039		

Figure 19: Detailed Threat Data

To View Threat Indicators:

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Click **Protection** in the top menu to view a list of threats (or click **Devices**, then select a device).
- 3. Click the name of any threat. The Threat Details page displays.
- 4. Click **Evidence Reports**.

Threat Indicator Categories:

Each category represents an area that has been frequently seen in malicious software and is based on deep analysis of over 100 million binaries. The Threat Indicators report indicates how many of those categories were present in the file.

Anomalies

The file has elements that are inconsistent or anomalous in some way. Frequently, they are inconsistencies in the structure of the file.

Collection

The file has evidence of data collection. This can include enumeration of device configuration or collection of sensitive information.

Data Loss

The file has evidence of data exfiltration. This can include outgoing network connections, evidence of acting as a browser, or other network communications.

Deception

The file has evidence of attempts to deceive. Deception can be in the form of hidden sections, inclusion of code to avoid detection, or indications of improper labeling in metadata or other sections.

Destruction

The file has evidence of destructive capabilities. Destruction includes the ability to delete device resources such as files and directories.

Miscellaneous

All other indicators that do not fit into other categories.

Note: Occasionally, the Threat Indicators and Detailed Threat Data sections have no results or are not available. This happens when the file has not been uploaded. Debug logging may provide insight as to why the file was not uploaded.

Addressing Threats

The type of action to take on some threats may depend on a Device's assigned user. Actions applied to threats can be applied at the Device level or at a Global level. Below are the different actions that can be taken against detected threats or files:

• *Quarantine*: *Quarantine* a specific file to prevent the file from being executed on that device.

Note: You can quarantine a threat using the command-line on a device. This is available with the Windows Agent only. See Quarantine by Command-Line for more information.

• *Global Quarantine*: *Global Quarantine* a file to prevent the file from being executed on any Device across the entire organization.

Note: *Quarantine* a file to move the file from its original location to the *Quarantine* directory (C:\ProgramData\Cylance\Desktop\q).

- *Waive*: *Waive* a specific file to allow that file to run on the device specified.
- Global Safe: Global Safe List a file to allow that file to run on any device across the entire organization.

Note: Occasionally, Threat Defense may *Quarantine* or report a "good" file (this could happen if the features of that file strongly resemble those of malicious files). *Waiving* or *Globally Safe Listing* the file can be useful in these instances.

- *Upload File*: Manually upload a file to Cylance Infinity for analysis. If Auto-Upload is enabled, new files (ones that have not been analyzed by Cylance) are automatically uploaded to Cylance Infinity. If the file exists in Cylance Infinity, then the Upload File button is unavailable (greyed out).
- **Download File**: Download a file for your own testing purposes. This feature must be enabled for the organization. The user must be an Administrator. The threat must be detected using Agent version 1320 or higher.

Note: The file must be available in Cylance Infinity and all three hashes (SHA256, SHA1 and MD5) must match between Cylance Infinity and the Agent. If not, then the Download File button is not available.

Address Threats on a Specific Device

- 1. Login to the Console (http://dellthreatdefense.com) as an Administrator or Zone Manager.
- 2. Click the **Devices** tab.
- 3. Search for and select the Device.
- 4. Alternately, a link to the device may be available from the Protection tab if it is listed with an associated threat.
- 5. All threats on that device are listed on the bottom of the page. Select the threat to either *Quarantine* or *Waive* the file on that device.

Ехро	rt 👲 Qua	arantine 🗸 Waive				× Clear Filte
Drag a	column head	er here to group by that column				
~	lcon 🗸	Name 🗸	File Path 👒	Cylance Score 👒	Status 🗸	Classification 🗸
~		36b27cd911b33c61730a8b82c8b2 Google VirusTotal	C:\ProgramData\Blizzard Entertain	100	Waived	PUP - Other
~		RocketLeague.exe Google VirusTotal	C:\Program Files (x86)\Steam\SteamA	100	Waived	PUP - Other
~		SwordCoast.exe Google VirusTotal	C:\Program File (x86)\Steam\SteamA	98	Waived	PUP - Other
~		LoLPatcher.exe Google VirusTotal	C:\Riot Games\League of Legends\R	24	Waived	PUP - Other

Figure 20: Global Quarantine List

Address Threats Globally

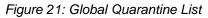
Files added to the *Global Quarantine List* or *Global Safe List* are either *Quarantined* or the file is *Allowed* on all Devices across all Zones.

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator.
- 2. Click **Settings > Global List**.
- 3. Click Global Quarantine or Safe.
- 4. Click Add File.

L

- 5. Add the file's SHA256 (required), MD5, name, and the reason being placed on the Global List.
- 6. Click Submit.

SHA256	
MD5	Optional
File name	Optional
leason	65 characters remaining



MD5	
	Optional
File name	Optional
Category None	•
Reason	65 characters remainin

Figure 22: Global Safe List

Protection – Script Control

Threat Defense provides details about Active and PowerShell scripts that have been blocked or alerted upon. With Script Control enabled, the results display on the Script Control tab on the Protection page. This provides details about the script and the Devices affected.

To view Script Control Results

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator.
- 2. Click Protection.
- 3. Click Script Control.

4. Select a script in the table. This updates the Details table with a list of affected devices.

Threat Defense									John_Smith
Dashboard 🖬 Prot	ection	N Zone	es 🗖 D	evices 🌣 Settir	ngs				
otection									
Threats Script C	ontrol								
▼ Threat filters		7 Expo	rt 👲 Qui	arantine 🗸 Safe					X Clear Fi
Priority: Unsafe		Drag a	column head	er here to group by that	column				
High	0	~	Icon 🗸	Name 🗸	Priority 🗸	Auto Run 🖂	Running 🗸	Detected By 🗸	Classification 🤟
Medium Low	0	y	Ø	utorrent.exe Google VirusTotal	High	No	No	Exe Control	PUP - Other
Status: Last 24 hours		•		setup.exe Google VirusTotal	Low	No	No	Background	PUP - Adware
Quarantined Unsafe	0	>	3	GameBot.org.exe Google VirusTotal	Low	No	No	Exe Control	PUP - Other
Abnormal Unique threats	0		9	CGB Bot.exe Google VirusTotal	Low	No	No	Exe Control	Malware - Trojan
Status: Total		2	0	GameBot.org.exe Google (VirusTotal	Low	No	No	Exe Control	PUP - Hacking
Global quarantined Quarantined	51 424	~		cleaner.exe Google VirusTotal	Low	No	No	File Watcher	PUP - Other
Waived Unsafe	5	v		vermintide.exe Google VirusTotal	Low	No	No	File Watcher	PUP - Other
Abnormal Unique threats	8	Details		ot.org.exe		Designation	Page 1 of	10 < 1< 1 2	
		Overv		ifo Stats	<u></u>	Devices (1) Unsafe (0) Quan	antined (1) Wai	ived (0) Abnormal	(0)
				7/2016 12:08:45 AM 7/2016 12:09:14 AM	<u></u>	🖌 Waive		• 0	Jnsafe 🔸 Protecte
		SHA2	56:	B321B483BC0011B411	006	Name		v Version v	Path 👳
		4530) MD5:	74E7DEFA57B	8977AE00CF88 9E80ADBF82A036DB0		QBO	X Online	1.2.1340	C:\Users\dreric.
					*	(d)			
		Anom	eat Indicat nalies (1 of 20		*	Threat Data Info Static D	ropped Behav	ior	2
		ception to im-	ons within a p plement tact	functions used to raise program. Malware does ics that make standard is difficult to follow.	this	General			
		This c		s functions that are use ses this to look for sens		Categor		i On 🤟	Completed On 9
Threat Defense		10.02.010		her points of attack.					

Figure 23: Script Tab – Protection Page

Script Control Column Descriptions

- File Name: The name of the script.
- Interpreter: The script control feature that identified the script.
- Last Found: The date and time the script was last run.
- Drive Type: The type of drive the script was found on (example: Internal Hard Drive).
- SHA256: The SHA 256 hash of the script.
- # of Devices: The number of devices affected by this script.
- Alert: The number of times the script has been alerted upon. This could be multiple times for the same device.
- Block: The number of times the script was blocked. This could be multiple times for the same device.

Details Column Descriptions

- Device Name: The name of the device affected by script. Click device name to go to Device Details page.
- **State**: The state of the device (online or offline).
- Agent Version: The Agent version number currently installed on the device.
- File Path: The file path from which the script was executed.
- When: The date and time when the script was run.
- Username: The name of the logged in user when the script was run.
- Action: The action take on the script (Alert or Block).

🕞 Threat Defen	se						✓ Icon	L-
III Dashboard	M Pi	rotection	🕷 Zones	Device:	s 🌣 Setting	js	✓ Priority ✓ Auto Run	
Protectio	n						 Running Detected By Signed 	
Threats		Script Con	trol				Cylance Score	
Threat Filte	rs	■ Expo		l Quarantine 💊			 AV Industry Classification Publisher 	× Clear Filters
Priority: Unsal	e.	Drag a c	column header he	ere to group by	that column.		🔲 Unsafe	
High	1	Ш н.	Name		Prio	Auto	Quarantined	Classification
Medium			-		ا Sort Ascend	ling	Waived	*
Low	1	 I< < 0 	50	 items per pa 	Descending		Abnormal Global Quarantined	No items to display
Status: Last 24 Hours	ł		ats match sele	ected criteria	Columns	•	Safelisted Cert Timestamp	
Quarantined	<mark>0</mark> ×						Cert Issuer	
Unsafe	0						First Found	
Abnormal	0						Last Found	
Unique to	0						MD5	
Cylance							E File Size	
Status: Status: Total							Unique to Cylance Production Status	
Global	0						New Status	

Figure 24: Protection – Selecting Columns

Global List

Global List allows a file to be marked for Quarantine or to Allow those files on all devices in the organization.

- **Global Quarantine:** All Agents in the organization *Quarantine* any file on the *Global Quarantine List* that is discovered on the device.
- Safe: All Agents in the organization Allow any file on the Safe List that is discovered on the device.
- Unassigned: Any threat identified in the organization that is not assigned to either the *Global Quarantine* or *Safe List*.

Change Threat Status

To change a threat status (Global Quarantine, Safe, or Unassigned):

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator.
- 2. Select **Settings > Global List**.
- 3. Select the current list that the threat is assigned to. For example, click Unassigned to change an unassigned threat to either *Safe* or *Global Quarantine*.
- 4. Select the check boxes for the threats to change, and click a status button.
 - a. Safe: Moves the files to the *Safe List*.
 - b. Global Quarantine: Moves the files to the *Global Quarantine List*.
 - c. Remove from List: Moves the files to the Unassigned List.

Add a File

Manually add a file to the *Global Quarantine* or the *Safe List*. The SHA256 hash information for the file being added is required.

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) as an Administrator.
- 2. Select **Settings > Global List**.
- 3. Select the list in which to add the file (Global Quarantine or Safe).
- 4. Click Add File.
- 5. Enter the SHA256 hash information. Optionally enter the MD5 and File Name information.
- 6. Enter a reason for adding this file.
- 7. Click Submit.

Safe List by Certificate

Customers have the ability to *Safe List* files by signed certificate, which allows any custom software that is properly signed to run without interruption.

Note: This feature currently works with Windows Operating Systems only.

- This functionality allows customers to establish a *White List/Safe List* by signed certificate which is represented by SHA1 thumbprint of the certificate.
- Certificate information is extracted by the Console (Timestamp, Subject, Issuer, and Thumbprint). The certificate is not uploaded or saved to the Console.
- The certificate timestamp represents when the certificate was created.

L

- The Console does not check if the certificate is current or expired.
- If the certificate changes (for example, renewed or new), it should be added to the *Safe List* in the Console.
- 1. Add the certificate details to the Certificate Repository.
 - a. Identify the certificate thumbprint for the signed Portable Executable (PE).
 - b. Select **Settings > Certificates**.
 - c. Click Add Certificate.
 - d. Click either **Browse for certificates to add** or drag-and-drop the certificate to the message box.
 - e. If browsing for the certificates, the Open window displays to allow selection of the certificates.
 - f. Optionally add notes about this certificate.
 - g. Click **Submit**. The Issuer, Subject, Thumbprint, and Notes (if entered) are added to the repository.
- 2. Add the Certificate to the Safe List.
 - a. Select **Settings > Global List**.
 - b. Select the **Safe** tab.
 - c. Click Certificates.
 - d. Click Add Certificate.
 - e. Select a certificate from the *Safe List*. Optionally select a Category and add a reason for adding this certificate.
 - f. Click Submit.

ettings							
Application	User Management	Device Policy	Global List	Update	Certificates		
➡ Add Certificat	te 📺 Remove from List						
Subject	▼ Issuer	Ŧ	Thumbprint		Ŧ	Notes	
CN=Micro Root Auth OU=Micro Corporatio OU=Copy (c) 1997 Microsoft	oority, OU=Microsoft C osoft OU=Copyright (c on, vright		A4 34 89 15 9A 52 0F B4 19	0D 93 D0 32 CC /	4F 37 E7 FE 20 A8	Certificate for Microsoft Applications	
CN=Dell II Root CA, DC=dell, DC=com	DC=com	ot CA, DC=dell,	9A 2B 0B 9A FC 25 5 24 C1	F 27 D7 A6 BE 17 9	1 19 5C F4 03 8D	Certificate for Dell Applications	
к < 1 > Э	50 🔻 items per page					1 - 2 of 2 ite	• ems

Figure 25: Certificate Repository

Viewing Thumbprints for a Threat

On the Protection tab, Threat Details now display the certificate thumbprint. From the screen, select **Add to Certificate** to add the certificate to the Repository.

Privileges

Add to Certificate is a function available to Administrators only. If the certificate is already added to the Certificate Repository, the Console displays Go to Certificate. Certificates are view-only by Zone Managers, who see the option Go to Certificate.

Profile

The profile menu (upper-right corner) allows management of your account, Console audit logs to be viewed, and access to product help.

My Account

Change your password and email notification setting on the My Account page.

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Click the profile menu in the upper-right corner, and select My Account.
- 3. To change your password:
 - a. Click Change Password.
 - b. Enter your old password.
 - c. Enter your new password and re-enter it to confirm it.
 - d. Click Update.
- 4. Select or de-select the check box to enable or disable Email Notifications. Enabling and disabling the check box is automatically saved. Email Notifications are available for Administrators only.

🚺 Threat Defense		
📶 Dashboard 🛛 🖾 Protec	ction 🔀 Zones 🖵 Devices 🎄 Settings	My Account Audit Log Settings
My Account		Log out
Company:	DT Support	About Support
Role:	Administrator	
Email:	development and an over	
Email Notifications:	If checked, email notifications about new threats will be sent to your account.	
Password:	You last updated your password 0 days ago. Change Password	

Figure 26: My Account

Audit Logging

User Icon Dropdown list (upper right hand corner of Console)

The Audit Log contains information about the following actions performed from the Console:

- Login (Success, Failure)
- Policy (Add, Edit, Remove)
- Device (Edit, Remove)
- Threat (Quarantine, Waive, Global Quarantine, Safe List)
- User (Add, Edit, Remove)
- Agent Update (Edit)

The Audit Log can be viewed from the Console by navigating to the profile dropdown list on the upper right side of the Console, and selecting **Audit Log**. Audit logs are available for Administrators only.

When 🔻 🔻	Who	Ŧ	Category	Ŧ	Action	Ŧ	Details
04/07/2016 11:15 PM			Application Setting		Threat Data Report Change		Nightly threat data report enabled.
04/07/2016 11:15 PM			Application Setting		Custom Authentication Disable		Custom authentication disabled.
04/07/2016 11:13 PM			Application Setting		Custom Authentication Disable		Custom authentication disabled.
04/07/2016 10:38 PM			Login		Success		Provider: CylancePROTECT, Source IP: 104.35.197.215
04/07/2016 5:29 PM			Application Setting		Custom Authentication Disable		Custom authentication disabled.
04/07/2016 5:28 PM			Application Setting		Require Password to Uninstall Agent Disable		Require password to uninstall agent disabled.
04/07/2016 5:23 PM			Application Setting		Require Password to Uninstall Agent Disable		Require password to uninstall agent disabled.
04/07/2016 5:18 PM			Login		Success		Provider: CylancePROTECT, Source IP: 70.168.147.253

Figure 27: Audit Log

Settings

The Settings page displays the Application, User Management, Device Policy, Global List, and Agent Update tabs. The Settings menu item is available for Administrators only.

APPLICATION

Threat Defense Agent

Devices are added to the organization by installing the Threat Defense Agent on each endpoint. Once connected to the Console, apply policy (to manage identified threats) and organize the devices based on organizational needs.

The Threat Defense Agent is designed to use a minimal amount of system resources. The Agent treats files or processes that execute as a priority because these events could be malicious. Files that are simply on disk (in storage but not executing) take a lower priority because while these could be malicious, these do not pose an immediate threat.

Windows Agent

System Requirements

Dell recommends that endpoint hardware (CPU, GPU, and so forth) meets or exceeds the recommended requirements of the target Operating System. Exceptions are noted below (RAM, available hard drive space and additional software requirements).

Operating Systems	 Windows 7 (32-bit & 64-bit) Windows Embedded Standard 7 (32-bit) and Windows Embedded Standard 7 Pro (64-bit) Windows 8 and 8.1 (32-bit & 64-bit)* Windows 10 (32-bit & 64-bit)** Windows Server 2008 and 2008 R2 (32-bit & 64-bit)*** Windows Server 2012 and 2012 R2 (64-bit)*** Windows Server 2016 – Standard, Data Center and Essentials****
RAM	• 2 GB
Available Hard Drive Space	• 300 MB
Additional Software/Requirements	 .NET Framework 3.5 (SP1) or higher (<i>Windows only</i>) Internet Browser Internet access to login, access the installer, and register the product Local administrator rights to install the software
Other Requirements	• TLS 1.2 is supported with Agent 1422 or higher, and requires .NET Framework 4.5 or higher

Table 2: System Requirements for Windows

*Not Supported: Windows 8.1 RT

**Windows 10 Anniversary Update requires Agent 1402 or later.

***Not Supported: Server Core (2008 and 2012) and Minimal Server (2012).

****Requires Agent 1412 or later.

To Download the Install File

- 1. Log in to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Select **Settings > Application**.
- 3. Copy the **Installation Token**.

The Installation Token is a randomly generated string of characters that enables the Agent to report to its assigned account on the Console. The Installation Token is required during installation, either in the installation wizard or as an installation parameter setting.

- 4. Download the Installer.
 - a. Select the Operating System.
 - b. Select the file type to download.

For Windows, Dell recommends use of the MSI file for installation of the Agent.

Tip: If a Zone Rule is set up, Devices can be automatically assigned to a Zone if the device matches the Zone Rule criteria.

Install the Agent – Windows

Ensure that all prerequisites are met prior to installing Threat Defense. See System Requirements.

1. Double-click DellThreatDefenseSetup.exe (or MSI) to begin the installation.



Figure 28: Setup File for Windows

2. Click **Install** at the Threat Defense setup window.

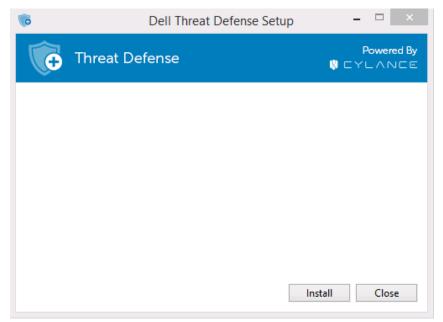


Figure 29: Setup Window

3. Enter the Installation Token provided by the Threat Defense Tenant. Click Next.

i <mark>8</mark>	Dell Threat Defense	×
C	Threat Defense Powered By	
Installat	ion <u>T</u> oken:	

Figure 30: Installation Token Input Screen

Note: Contact your Threat Defense administrator or see KB article <u>How To: Manage Threat Defense</u> if access to the Installation Token is not available.

4. Optionally change the destination folder of Threat Defense.

Click **OK** to begin the installation.

12	Dell Threat Defense Setup	- 🗆 🗙
	Threat Defense	Powered By
Browset	to the destination folder	
Look in:	🚔 Desktop	E
Eolder n	ame: ram Files\Cylance\Desktop\	
		OK Cancel

Figure 31: Installation Location

5. Click **Finish** to complete the installation. Select the check box to launch Threat Defense.

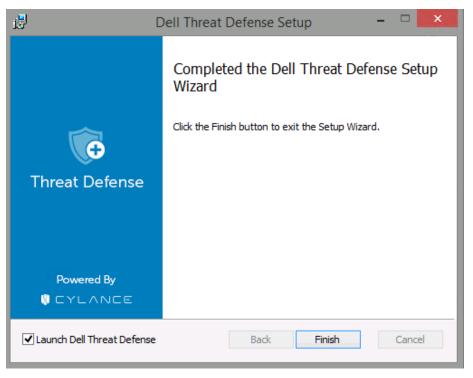


Figure 32: Installation Complete

Windows Installation Parameters

The Agent can be installed interactively or non-interactively through GPO, Microsoft System Center Configuration Manager (commonly known as SCCM), and MSIEXEC. The MSIs can be customized with built-in parameters (shown below) or the parameters can be supplied from the command line.

Property	Value	Description
PIDKEY	<installation token=""></installation>	Auto input the Installation Token
	0 1	0: The system tray icon and the Start Menu folder is hidden at run-time
LAUNCHAPP	0 or 1	1: The system tray icon and Start Menu folder are not hidden at run-time (default)
SELEDDOTECTIONI EVEL	1 or 2	1: Only Local Administrators can make changes to the registry and services
SELFPROTECTIONLEVEL	1 of 2	2: Only the System Administrator can make changes to the registry and services (default)
	Target Installation	Specifies the Agent installation directory
APPFOLDER	<target installation<br="">Folder></target>	The default location is C:\Program Files\Cylance\Desktop
		Requires Agent version 1382 or higher
VenueZone	"Zone Name"	•Adds devices to a zone.
	_	•If the zone does not exist, the zone is created using the name provided.

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Property	Value	Description
		•Replace zone_name with the name of an existing zone or a zone you want to create.
		Warning : Adding spaces before or after the zone name will create a new zone.

The following command line example shows how to run the Microsoft Windows Installer Tool (MSIEXEC) passing it the PIDKEY, APPFOLDER, and LAUNCHAPP installation parameters:

msiexec /i DellThreatDefenseSetup_x64.msi /qn PIDKEY=<INSTALLATION TOKEN> LAUNCHAPP=0 /L*v C:\temp\install.log

The installation is silent and the installation log is saved to C:\temp. When the Agent is running, both the system tray icon and the Start Menu Threat Defense folder are hidden. Additional information regarding different command line switches accepted by MSIEXEC can be found in <u>KB 227091</u>.

Install the Windows Agent Using Wyse Device Manager (WDM)

This section explains how to create an install script, how to create an RSP package for WDM, and how to add the package to WDM to install on multiple thin clients simultaneously without user interaction.

Create a batch file script that will perform the command line install of Threat Defense. WDM executes this script during deployment.

1. Open Notepad. Using the command line parameters from above, enter the following command to execute the install, replacing <INSTALLATION TOKEN> with your provided token: msiexec /i C:\TDx86\DellThreatDefense_x86.msi PIDKEY=<INSTALLATION TOKEN> /q

C:\TDx86 is used for our directory, as this folder gets copied to this location on the thin client during installation.

2. Save the file with a .bat extension to the TDx86 folder. For example, **TDx86_Install.bat**.

Create an RSP Package with which the Threat Defense Agent application can be installed onto multiple thin clients simultaneously without user interaction.

3. Open Scriptbuilder on a computer that has WDM installed.

Q					Scrip	otbuilder				
	New Package	Open Package	Revie	∾ Script	Save	Sample Script	Command He	lp	General Help	
	New Package Package Name: Package Descript Package Descript Package Descript Confirm Disc Siz Confirm Disc Siz Confirm Disc Siz Confirm Simage (Confirm Operatin Confirm Wiser (CL Confirm File Vers Delete Registry E Delete Registry N Delete Registry N Delete Registry N Delete Registry N Delete Registry N Delete Tree (DT) End Lockout (EL)	ion: ion: c(CD) e (CD) e Space (CF) CI) g System (CO) i RAM Size (CR) i) ion (CV) Branch: (DB) /alue (DR)	Para =	v Script Package Ca Operating S neters meter	ategory:	Sample Script	_	[Version] Number= Descripti OS Category] ion= /= MOTE=Yes	

Figure 33: Scriptbuilder

- 4. Enter a Package Name and Package Description.
 - Select Other Packages under Package Category.
 - Select Windows Embedded Standard 7 under Operating System.

			S	Scriptbuilder	
New Package	Open Package	Review Script	Save	Sample Script	C
Package Name TDx86 Package Desc Threat Defense	ription:	Oth Ope	kage Category: ler Packages rating System: ldows Embedded St	▼ tandard 7	
Script Comma	nds	Parameters			
Add Comment Append File (A Confirm Disc S	λĚ)	∧ Parameter	Value		
	C :				

Figure 34: Scriptbuilder fields

Τ

- 5. Add Script Commands to verify target systems are WES7 or WES7p.
 - Select Confirm Operating System (CO) under Script Command
 - For the Device OS value, enter the appropriate operating system.

Q						Sc	riptbuilder	
	New Package	Open Package		Review So	ript	Save	Sample Script	Co
	Script Comma Add Commen Append File (Confirm Disc Confirm Disc Confirms Imag Confirm Opera	cription: e x86 Installer ands t (;) AF) Size (CD) Free Space (CF)	=		Other Pa Operating Windows ers ter	Ŭ	andard 7	

Figure 35: Scriptbuilder confirm OS

6. Use the double arrows to Add Item.

S	criptbuilder			
ave	Sample Script	Command Help	General Help	
d St	▼ tandard 7	Nu De OS Ca US	ersion] mber=TDx86 scription=Threat Defense x86 Installer S=VVES7 tegory=Other Packages E_REMOTE=Yes ate: 6/20/2016	
ue S7			oript] • "WES7"	

Figure 36: Scriptbuilder add item

7. Press **OK** at the prompt.

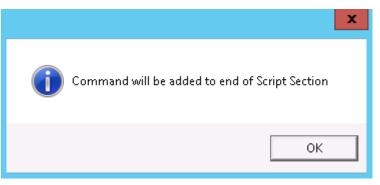


Figure 37: Command will be added to end of script

- 8. Add command to lock the thin client and to prevent user interaction.
 - Select Script Command > Lockout User (LU). No value is necessary. However, in this example a Value of Yes is entered, so that the splash screen is removed if the installer fails or there is an error.

Script Commands		Parameters	
Get Registry Value (GV)	~	Parameter	Value
Local Pause (LP)		Remove Splash	Yes
Lockout User (LU)			
Merge Registry (MR)			

Figure 38: Script Commands

- 9. Add command to copy files to thin client.
 - Select Script Command X Copy (XC).
 - For the **Repository Directory** value, add ***** to the end of the existing **<regroot>**\.
 - For the **Device Directory** value, enter the path for the files to be copied to on the destination thin clients. In this example, the Package Name is used.

Script Commands		Parameters	
Get Registry Value (GV)	^	Parameter	Value
Local Pause (LP)		Repository Directory	<regroot>*</regroot>
Lockout User (LU)		Device Directory	C:\TDx86
Merge Registry (MR)			
Query User (QU)			
Reboot (RB)			
Set Terminal Information (SC)			
Shutdown (SD)			
Send File (SF)			
Set Network Information (SN)			
Set Profile (SP)	=		
Synch Time (ST)	-		
Set Registry Value (SV)			
Wake on LAN (WL)			
X Copy (XC)	\sim		
Device dimensions (device dimension)			

Device directory (destination)

Figure 39: Script Parameters

- 10. Add command to execute the .bat install script.
 - Select Script Command > Execute on Device (EX).
 - For the Device Filename value, enter the path C:\TDx86\TDx86_install.bat. The TDx86 folder gets copied from our previous command XC.
 - Add + as the Synchronous Execute value. This tells WDM to wait until the file being executed has completed to continue.

Script Commands		Parameters			
Execute on Device (EX) Get File (GF) Get Registry (GR)	^		Value C:\TDx86\TDx86_Install.bat +		
Get Registry Value (GV)					

Figure 40: Script Parameters

11. Add command to delete files copied from thin client.

12. Add Script Command Delete Tree (DT).

Script Commands		Parameters			
Delete Tree (DT)	^	Parameter	Value		
End Lockout (EL)		Device Root Directory	C:\TD×86		
Execute on Device (EX)					

Figure 41: Script Parameters

12. Add commands to disable lock out.

13. Add Script Command End Lockout (EL).

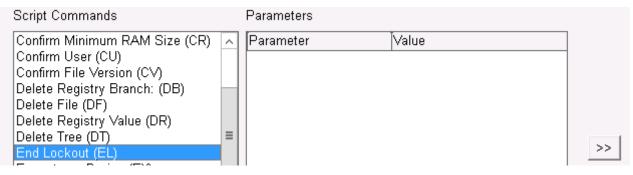


Figure 42: Script Parameters

13. To review, the script package should look similar to the following.

[Version]		
Number=TDx8	δ	
Description=T	nreat Defense x86 Installer	
OS=WES7		
Category=Oth	er Packages	
USE_REMOTE	=Yes	
; Date: 6/20/2	16	
[Script]		
CO "WES7"		
LU "Yes"		
XC " <regroot></regroot>	(*" "C:\TDx86"	
EX "C:\TDx86	TDx86_Install.bat" "+"	
DT "C:\TDx86		
EL		

Figure 43: Script Review

a. If deploying Threat Defense to WES7P systems, update the operating system section to WES7P, Otherwise, the package fails to install.

[Version]
Number=TDx64
Description=Threat Defense x64 Installe DS=WES7P
Category=Other Packages
USE_REMOTE=Yes
; Date: 6/24/2016
[Script]
CO "WES7P"
LU "Yes"
XC " <regroot>*" "C:\TDx64"</regroot>
EX "C:\TDx64\TDx64_Install.bat" "+"
DT "C:\TDx64"
EL

Figure 44: Script Review

T

- 14. Save the package.
 - 14. Click **Save** and browse to the location of the **TDx86** folder, if these instructions have been followed, the folder is on the Desktop.

Q		Save As			x
€ 🕘 ד ↑]	▶ This PC ▶ Desktop ▶	~ ¢	Search Deskto	pp	,
Organize 👻 New	folder				• 🕜
🛯 🚖 Favorites	^ Name	•	Date m	odified	Туре
🔜 Desktop 🚺 Downloads 📆 Recent places	↓ TD×86		6/24/21	016 1:21 PM	File folder
4 🖳 This PC					
👂 膧 Desktop					
Documents					
▷ 🗼 Downloads ▷ 🚺 Music					
Þ 퉬 Music Þ 崖 Pictures					
Videos	✓ <	Ш			>
File name:	TDx86.rsp				~
Save as type:	Script Files(*.rsp)				~
) Hide Folders			Save	Can	cel

Figure 45: Save Location

- 15. Close Scriptbuilder.
- 16. Launch WyseDeviceManager to add the package to WDM.
- 17. Browse to **WyseDeviceManager > Package Manager > Other Packages**.

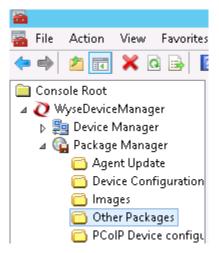


Figure 46: WyseDeviceManager

18. Select **Action > New > Package** from the menu bar.

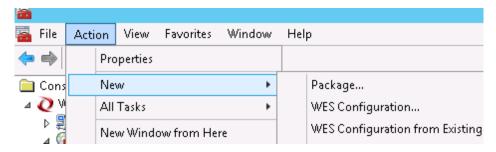


Figure 47: Menu bar

19. Select Register a Package from a Script file (.RSP) and click Next.

	Package Wizard	x
010 011 1010 110	Packages contain software, images, and configurations for distribution to devices. What do you want to do? Register a Package from a Script file (.RSP) Register an Image from a Device (Requires PXE) Build and register a CE image plus add-ons ("CE bundled image")	
ૢ	< Back	el

Figure 48: Package wizard

20. Browse to the location of the RSP file created in the previous step and click Next.

	Package Wizard	x
010 011 101(To register a WDM package, type or browse for the path to the WDM script file (.rsp). The .rsp file may be on a CD from the device maker, or on a local or network drive. Package Location	
110	Please specify the location of the Package's .rsp file: File Path: C:\Users\administrator\Desktop\TDx86.rsp	
?	< <u>B</u> ack <u>N</u> ext > Cance	

Figure 49: Location of .RSP file

21. Ensure that Active is selected and click Next.

	Packa	ge Wizard	x
010	lf you have admi package by unc	nistrator privileges you may inactivate this hecking the "Active" checkbox.	
.011	Package Informa	ation	1
U	<u>N</u> ame	TDx86	
1010	<u>D</u> escription	Threat Defense x86 Installer	
	<u>C</u> ategory	Other Packages 💌	
TTO		✓ Active	
?		< Back Next > Cancel	

Figure 50: Package information

22. Click **Next** once WDM is ready to register the package.

	Package Wizard	x
010 011 101(OM is ready to register the package. Click Next to begin. ckage Registration Progress eady	
?	< <u>B</u> ack <u>N</u> ext > Canc	el

Figure 51: Ready to register the package

23. Click **Finish** when the package is successfully registered.

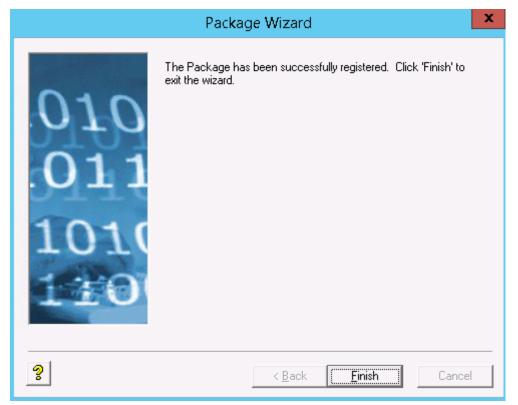


Figure 52: Finish wizard

24. The package will be visible in **Other Packages**.

l

🚟 File Action View Favorites	: Window Help	
🗢 🍬 🙇 🔜 👘 メ 🖬	è ? 🖬	
🚞 Console Root	Name 📩	Description
🛛 🙋 WyseDeviceManager	🟐 BootAgentUpgradeLi	Boot Agent Upgrade for SLET
⊳ 🚑 Device Manager	🐻 Boot Agent Upgrade W	Boot Agent Upgrade for WE8:
⊿ 🚱 Package Manager	BootAgentUpgradeW	Boot Agent Upgrade for WE8:
🦲 Agent Update	🗑 Boot Agent Upgrade W	Boot Agent Upgrade for WES
🛅 Device Configuration	BootAgentUpgradeW	Boot Agent Upgrade for WES
🔁 Images	The Boot	Device Reboot
C Other Packages	ResetOSSettings	Resets OS configuration to fa
ColP Device configu	ShutDown	Device Shutdown
⊳ 💥 Update Manager	TDx86	Threat Defense x86 Installer
▷ 📸 Report Manager ▷ ≺ Configuration Manager	WakeOnLAN	Device WOL

Figure 53: Location of package

- 25. Verify package contents:
 - a. Open File Explorer and browse to C:\inetpub\ftproot\Rapport and locate the TDx86 folder.

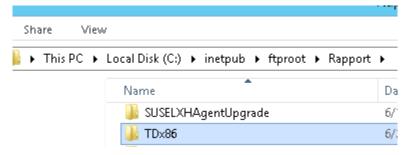


Figure 54: Inetpub location of package

b. Open TDx86 folder and verify the folder include the installer and .bat file.

Local Disk (C:) 🔸 inetpub 🔸 ftproot 🔸 Rapport	▶ TD×86
Name	Date mo
CRC.Txt	6/24/201
😽 DellThreatDefense_x86.msi	6/24/201
🚳 TDx86_Install.bat	6/24/201

Figure 55: Inetpub location of installer

A package is now available in WDM that can deploy Threat Defense to multiple WES7 thin clients without user interaction.

Quarantine using the Command-Line

You can quarantine a file using the command-line on a device. This requires knowing the SHA256 hash for the threat.

Note: This feature is for Windows only and requires Agent 1432 or higher.

1. On the Windows device, open the command-line. Example: From the Start menu, search for cmd.exe.

Programs (1)		
🔤 cmd.exe		
₽ See more results		
cmd.exe	×	Shut down 🕨

Figure 56: Search for cmd.exe

2. Invoke Dell.ThreatDefense.exe and include the argument **-q:<hash>**, where <hash> is the SHA256 hash for the file. This will prompt the Agent to send the file to the quarantine folder.

Example Command-Line (Dell Threat Defense installed to the default location):

```
"C:\Program Files\Cylance\Desktop\Dell.ThreatDefense.exe" -q:
14233d4875e148c370a6bbe40fccabccdbfa194dac9e8bd41b0eadcf2351f941
```

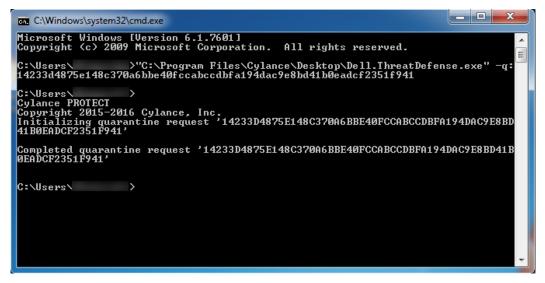


Figure 57: Quarantine a file by SHA256 hash

Mac OS X Agent

System Requirements

Dell recommends that endpoint hardware (CPU, GPU, and so forth) meets or exceeds the recommended requirements of the target Operating System. Exceptions are noted below (RAM, available hard drive space and additional software requirements).

Operating Systems	 Mac OS X 10.9 Mac OS X 10.10 Mac OS X 10.11 macOS 10.12*
RAM	• 2 GB
Available Hard Drive Space	• 300 MB

Table 4: System Requirements for Mac OS X

*Requires Agent 1412 or later.

To Download the Install File

- 1. Log in to the Console (<u>http://dellthreatdefense.com</u>).
- 2. Select **Settings > Application**.
- 3. Copy the **Installation Token**.

The Installation Token is a randomly generated string of characters that enables the Agent to report to its assigned account on the Console. The Installation Token is required during installation, either in the installation wizard or as an installation parameter setting.

- 4. Download the Installer.
 - a. Select the Operating System.
 - b. Select the file type to download.

Tip: If a Zone Rule is set up, Devices can be automatically assigned to a Zone if the device matches the Zone Rule criteria.

Install the Agent – Mac OS X

Ensure that all prerequisites are met prior to installing Threat Defense. See System Requirements.

Note: The Mac OS X Agent will be Dell branded in a future release.

- 1. Double-click **DellThreatDefense.dmg** to mount the installer.
- 2. Double-click the *Protect* icon from the PROTECT user interface to begin the installation.



3. Click **Continue** to verify that the Operating System and Hardware meet the requirements.

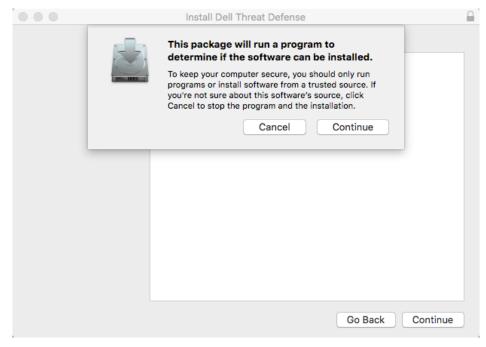


Figure 59: Operating System and Hardware Check

4. Click **Continue** at the Introduction screen.

	o Install Dell Threat Defense	
	Welcome to the Dell Threat Defense Installer	
Introduction	You will be guided through the steps necessary to install this software.	
Installation Token		
Destination Select		
Installation Type		
Installation		
Summary		
	Go Back Continue	

Figure 60: Introduction Screen

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5. Enter the Installation Token provided by the Threat Defense Tenant. Click Continue.

	o Install Dell Threat Defense	
	Installation Token	
 Introduction Installation Token Destination Select Installation Type Installation Summary 	Please Input Installation Token	
	Go Back Contin	ue

Figure 61: Installation Token Input Screen

Note: Contact your Threat Defense administrator or see KB article <u>How To: Manage Threat Defense</u> if access to the Installation Token is not available.

6. Optionally change the installation location of Threat Defense.

Click **Install** to begin the installation.

	o Install Dell Threat Defense	
	Standard Install on "El Capitan 05"	
 Introduction Installation Token Destination Select Installation Type Installation Summary 	This will take 26.2 MB of space on your computer. Click Install to perform a standard installation of this software on the disk "El Capitan 05". Change Install Location	
	Go Back Install	

Figure 62: Installation Type Screen

7. Enter an administrator's Username and Password. Click Install Software.

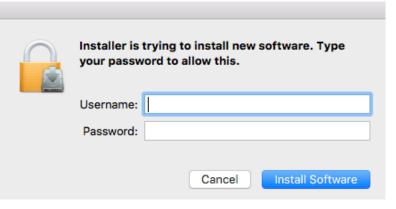


Figure 63: Input Credentials Screen

8. Click **Close** at the Summary screen.

	o Install Dell Threat Defense	1
 Introduction Installation Token Destination Select Installation Type Installation Summary 	The installation was completed successfully.	
	Go Back Close	

Figure 64: Installation Complete Screen

Mac OSX Installation Parameters

The Threat Defense Agent can be installed using command line options in Terminal. The examples below use the PKG installer. For DMG, simply change the file extension in the command.

Note: Ensure that the target endpoints meet system requirements and that the person installing the software has the proper credentials for installing software.

Property	Value	Description
InstallToken		Installation token available in the Console
NoCylanceUI		The Agent icon should not display on startup. The default is Visible
SelfProtectionLevel	0 or 1	1: Only Local Administrators can make changes to the registry and services.

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Property	Value	Description		
		2: Only the System Administrator can make changes to the registry and services (default).		
		0: Error – Only error messages are logged.		
		1: Warning – Error and warning messages are logged.		
LocLovel	0.1.22	2: Information (default) – Error, warning and information messages are logged. This may provide some details during troubleshooting.		
LogLevel	0, 1, 2, or 3	3: Verbose – All messages are logged. When troubleshooting, this is the recommended log level. However, verbose log file sizes can grow very large. Dell recommends turning on Verbose during troubleshooting and then changing it back to Information when troubleshooting is complete.		
		Requires Agent version 1382 or higher		
		•Adds devices to a zone.		
VenueZone	"zone name"	•If the zone does not exist, the zone is created using th name provided.		
	Lond_name	•Replace zone_name with the name of an existing zone or a zone you want to create.		
		Warning : Adding spaces before or after the zone name will create a new zone.		

Table 5: Installation Parameters for Mac OS X

Install the Agent

Install without the Installation Token

sudo installer -pkg DellThreatDefense.pkg -target/

Install with the Installation Token

```
echo [install_token] > cyagent_install_token
sudo installer -pkg DellThreatDefense.pkg -target/
```

Note: Replace **[install_token]** with the Installation Token. The echo command outputs a **cyagent_install_token** file, which is a text file with one installation option per line. This file must be in the same folder as the installation package. Be cautious of file extensions, the example above shows the cyagent_install_token file has no file extension. Default settings within Mac OSX and macOS have extensions hidden. Manually building this file with text edit or another text editor may automatically append a file extension that will need to be removed.

Optional Installation Parameters

Enter the following in Terminal to create a file (**cyagent_install_token**) that the installer uses to apply the options entered. Each parameter must be on its own line. This file must be in the same folder as the installation package.

The following is an example. All of the parameters are not needed in the file. Terminal includes everything contained within the single quotes in the file. Ensure that Enter/Return is pressed after each parameter to keep each parameter on its own line in the file.

A text editor may also be used to create the file that includes each parameter (on its own line). This file must be in the same folder as the installation package.

Example:

echo 'InstallToken
NoCylanceUI
SelfProtectionLevel=2
LogLevel=2'> cyagent_install_token
sudo installer -pkg DellThreatDefense.pkg -target/

Uninstall the Agent

Without Password

sudo /Applications/Cylance/Uninstall\
DellThreatDefense.app/Contents/MacOS/Uninstall\ DellThreatDefense

With Password

```
sudo /Applications/Cylance/Uninstall\
DellThreatDefense.app/Contents/MacOS/Uninstall\ DellThreatDefense --
password=thisismypassword
```

Note: Replace thisismypassword with the uninstall password created in the Console.

Agent Service

Start Service

sudo launchctl load
/Library/launchdaemons/com.cylance.agent_service.plist

Stop Service

sudo launchctl unload
/Library/launchdaemons/com.cylance.agent_service.plist

Installation Verification

Check the following files to verify successful Agent installation.

- 1. The program folder was created.
 - Windows default: C:\Program Files\Cylance\Desktop
 - Mac OS X default: /Applications/DellThreatDefense/
- 2. The Threat Defense icon is visible in the system tray of the target device.

This does not apply if parameter LAUNCHAPP=0 (Windows) or NoCylanceUI (Mac OS X) is used.

3. There is a Threat Defense folder under Start Menu\All Programs on the target device.

This does not apply if parameter LAUNCHAPP=0 (Windows) or NoCylanceUI (Mac OS X) is used.

- 4. The Threat Defense service was added and is running. There should be a Threat Defense service listed as running in the Windows Services panel of the target device.
- 5. The Dell.ThreatDefense.exe process is running. There should be a Dell.ThreatDefense.exe process listed under the Processes tab in the Windows Task Manager of the target device.
- 6. The device is reporting to the Console. Login to the Console and click the Devices tab, the target device should show up and be listed in the online state.

Agent User Interface

The Agent user interface is enabled by default. Click the Agent icon in the system tray to view. Alternatively, the Agent can be installed to hide the Agent icon from the system tray.

Threat Defense WIN-CCTMTL5S3HN				
Threats	Events	Scripts		
File		Category	Found	ID
Analyzed Files:				
Optimizing compone	nte			×
optimizing compone	11.0			~

Figure 65: Agent User Interface

Threats tab

Displays all threats discovered on the device and the action taken. *Unsafe* means no action has been taken on the threat. *Quarantined* means the threat has been modified (to keep the file from executing) and has been moved to the *Quarantine* folder. *Waived* means file is deemed safe by the administrator and *Allowed* to run on the device.

Events tab

Displays any threat events that have occurred on the device.

Scripts tab

Displays any malicious scripts that have run on the device and any action taken on the script.

Agent Menu

The Agent menu provides access to help and updates for Threat Defense. Access is also provided to the Advanced User Interface that provides more menu options.

Agent Menu

The Agent menu allows users to perform some actions on the device. Right-click the Agent icon to see the menu.

- Check for Updates: The Agent checks for and installs any updates available. Updates are restricted to the Agent version allowed for the Zone the device belongs to.
- **Check for Policy Update**: The Agent checks if a policy update is available. This could be changes to the existing policy or a different policy being applied to the Agent.

Note: Check for Policy Update is supported in version 1422 (or higher) for Windows and version 1432 (or higher) for macOS.

- About: Displays a dialog with the Agent version, name of the policy assigned to the device, the last time the Agent checked for an update, and the installation token used during installation.
- Exit: Closes the Agent icon in the system tray. This does not turn off any of the Threat Defense services.
- Options > Show Notifications: Select this option to display any new events as notifications.

Options	F
Exit	
About	
Check for Policy Update	
Check for Updates	

Figure 66: Agent Menu

Enable Agent User Interface Advanced Options

The Threat Defense Agent provides some advanced options via the user interface to provide features on devices without connectivity to the Console. The CylanceSVC.exe must be running when the Advanced Options are enabled.

Windows

- 1. If the Agent icon is visible in the system tray, right-click the icon and select Exit.
- 2. Launch the Command Prompt and enter the following command. Press enter when complete.

cd C:\Program Files\Cylance\desktop

If the application was installed in a different location, navigate to that location in the command prompt.

3. Enter the following command and press enter when complete.

Dell.ThreatDefense.exe -a

The Agent icon displays in the system tray.

4. Right-click the icon. Logging, Run a Detection, and Threat Management options display.

Check for Updates	
Check for Policy Update	
About	
Exit	
Options	×
Logging	►
Run a Detection	►
Threat Management	►

Figure 67: Agent Advanced User Interface Options

Mac OSX/macOS

- 1. If the Agent icon is visible in the top menu, right-click the icon and select Exit.
- 2. Open terminal and run
 - a. Sudo

/Applications/DellThreatDefense/DellThreatDefense.app/Contents/MacOS/DellThreatDefenseUI-a

Note: This is the default install path for Dell Threat Defense. You may need to edit the path to match your environment accordingly.

3. The Agent UI will now appear with additional options.

Logging

Select the level of log information to collect from the Agent. The default is Information. Dell recommends setting the log level to All (Verbose) when troubleshooting. When troubleshooting is complete, change this back to Information (logging All information can generate very large log files).

Run a Detection

Allows users to specify a folder to scan for threats.

- 1. Select **Run a Detection > Specify Folder**.
- 2. Select a folder to scan and click OK. Any threats found display in the Agent user interface.

Threat Management

Allows users to delete Quarantined files on the device.

- 1. Select Threat Management > Delete Quarantined.
- 2. Click **OK** to confirm.

Virtual Machines

There are some recommendations when using the Threat Defense Agent on a virtual machine image.

When creating a virtual machine image to be used as a template, disconnect the virtual machine network settings before installing the Agent. This prevents the Agent from communicating with the Console and configuring the Device Details. This prevents duplicate devices in the Console.

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Password-Protected Uninstall

SETTINGS > Application

Administrators can require a password for uninstalling the Agent. When uninstalling the Agent with a password:

- If the MSI installer was used to install, either uninstall using the MSI or use the Control Panel.
- If the EXE installer was used to install, use the EXE to uninstall. Using the Control Panel does not work if the EXE installer was used and a password is required to uninstall.
- If uninstalling using the command line, add the uninstall string: UNINSTALLKEY = [MyUninstallPassword].

To Create an Uninstall Password

- 1. Login to the Console (<u>http://dellthreatdefense.com</u>) with an Administrator account.
- 2. Select **Settings > Application**.
- 3. Select the check box to **Require Password to Uninstall Agent**.
- 4. Enter a password.
- 5. Click Save.

🕞 Threat Defense							1
🖬 Dashboard 🛛 🛛	Protection 🔀 Zone	s 🗖 Devices	Settings				
• Settings							
Application	User Management	Device Policy	Global List	Update	Certificates		
Company:	Dell ThreatDefense Tena	int					
Installation Token:		SrmsL4wXVCiwvoapiAohQe3s Delete or regenerate token. Note: After taking this action, the current token will no longer be valid				Windows v	Mac OS X 🔻
Invitation URL:	ation URL: Generate URL - use this URL to invite people from your organization to use Cylance.						
Require Password to Unit Agent:	nstall						

Figure 68: Configure Password-Protected Uninstall

Integrations

The Threat Defense Console provides integration with some third party programs.

Syslog/SIEM

Threat Defense can integrate with Security Information Event Management (SIEM) software using the Syslog feature. Syslog events are persisted at the same time the Agent events are persisted to the Console.

For the latest IP addresses for Syslog messages, contact Dell Support.

Integrations				
Syslog/SIEM:				
	Event Types:*	 Application Control Audit Log Devices 	 Script Control Threats Threat Classifications 	
	SIEM:*	- Select One -		•
	Protocol:*			•
	TLS			
	IP/Domain:*			
	Port:*	6514		
	Severity:	Warning (4)		٣
	Facility:	Internal (5)		•
		Test Connection		Save
Custom Authentication:				
Threat Data Report:				

Figure 69: Configure Syslog/SIEM

Event Types

Audit Log

Select this option to send the audit log of user actions performed in the Console (website) to the Syslog server. Audit log events always display in the Audit Log screen, even when this option is de-selected.

Example Message for Audit Log being forwarded to Syslog

Threat Defense: Event Type: AuditLog, Event Name: ThreatGlobalQuarantine, Message: SHA256:A1E92E2E84A1321F499A5EC500E8B9A9C0CA28701668BF13EA56D3995A96153F,1CCC95B7B2F78 1D55D538CA01D6049762FDF6A75B32A06DF3CC2EDC1F1573BFA; Reason: Manually blacklisting these 2 threats., User: (johnsmith@contoso.com)

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Devices

Select this option to send device events to the Syslog server.

• When a new device is registered, two messages for this event are received: Registration and SystemSecurity.

Example Message for Device Registered Event

Threat Defense: Event Type: Device, Event Name: Registration, Device Name: WIN-S5NATVQHBUU Threat Defense: Event Type: Device, Event Name: SystemSecurity, Device Name: WIN-S5NATVQHBUU, Agent Version: 1.1.1270.58, IP Address: (10.3.0.154), MAC Address: (005056881877), Logged On Users: (WIN-S5NATVQHBUU\Administrator), OS: Microsoft Windows Server 2008 R2 Standard Service Pack 1 x64 6.1.7601

• When a device is removed.

Example Message for Device Removed Event

Threat Defense: Event Type: Device, Event Name: Device Removed, Device Names: (:), User: (:)

• When a device's policy, Zone, name, or logging level has changed.

Example Message for Device Updated Event

Threat Defense: Event Type: Device, Event Name: Device Updated, Device Message: Renamed: 'WIN-55NATVQHBUU' to 'WIN-2008R2-IRV1'; Policy Changed: 'Default' to 'IRVPolicy1'; Zones Added: 'IRV1', User: John Smith (johnsmith@contoso.com)

Threats

Select this option to log any newly found threats or changes observed for any existing threat, to the Syslog server. Changes include a threat being *Removed*, *Quarantined*, *Waived*, or *Executed*.

There are five types of Threat Events:

- **threat_found**: A new threat has been found in an *Unsafe* status.
- threat_removed: An existing threat has been *Removed*.
- threat_quarantined: A new threat has been found in the *Quarantine* status.
- **threat_waived**: A new threat has been found in the *Waived* status.
- **threat_changed**: The behavior of an existing threat has changed (examples: Score, Quarantine Status, Running Status).
- **threat_cleared**: A threat that has been Waived, added to the Safe List or deleted from quarantine on a device.

1

Threat Defense: Event Type: Threat, Event Name: threat_found, Device Name:
1, IP Address: (:), File Name: virusshare_00fbc4cc4b42774b50a9f71074b79bd9,
Path: c:\ruby\host_automation\test\data\test_files\, SHA256:
1EBF3B8A61A7E0023AAB3B0CB24938536A1D87BCE1FCC6442E137FB2A7DD510B, Status: Unsafe,
Cylance Score: 100, Found Date: 6/1/2015 10:57:42 PM, File Type: Executable, Is
Running: False, Auto Run: False, Detected By: FileWatcher

Threat Classifications

Hundreds of threats are classified each day as either Malware or Potentially Unwanted Programs (PUPs). If this option is selected, you subscribe to be notified when these events occur.

Example Message of Threat Classification

Threat Defense: Event Type: ThreatClassification, Event Name: ResearchSaved, Threat Class: Malware, Threat Subclass: Worm, SHA256: 1218493137321C1D1F897B0C25BEF17CDD0BE9C99B84B4DD8B51EAC8F9794F65

SIEM (Security Information and Event Management)

Specifies the type of Syslog server or SIEM that events are to be sent to.

Protocol

This must match what is configured on your Syslog server. The choices are UDP or TCP. UDP is generally not recommended as it does not guarantee message delivery. Dell recommends TCP (default).

TLS/SSL

Only available if the Protocol specified is TCP. TLS/SSL ensures the Syslog message is encrypted in transit from Threat Defense to the Syslog server. Dell encourages customers to select this option. Ensure that the Syslog server is configured to listen for TLS/SSL messages.

IP/Domain

Specifies the IP address or fully-qualified domain name of the Syslog server that the customer has setup. Consult with your internal network experts to ensure firewall and domain settings are properly configured.

Port

Specifies the port number on the devices that the Syslog server listens for messages. It must be a number between 1 and 65535. Typical values are: 512 for UDP, 1235 or 1468 for TCP, and 6514 for Secured TCP (example: TCP with TLS/SSL enabled).

Severity

Specifies the severity of the messages that should display in the Syslog server. This is a subjective field, and it may set to whatever level preferred. The value of severity does not change the messages that are forwarded to Syslog.

Facility

Specifies what type of application is logging the message. The default is Internal (or Syslog). This is used to categorize the messages when they are received by the Syslog server.

Testing the Connection

Click **Test Connection** to test the IP/Domain, Port and Protocol settings. If valid values are entered, after a couple of moments, a *success* confirmation displays.

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Custom Authentication

Use external Identity Providers (IdP) to log in to the Console. This requires configuring settings with your IdP to obtain an X.509 certificate and a URL for verifying your IdP login. Custom Authentication works with Microsoft SAML 2.0. This feature has been confirmed to work with OneLogin, OKTA, Microsoft Azure, and PingOne. This feature also provides a Custom setting and should work with other Identity Providers who follow Microsoft SAML 2.0.

Note: Custom Authentication does not support Active Directory Federation Services (ADFS).

- Strong Authentication: Provides multi-factor authentication access.
- Single Sign-On: Provides single sign-on (SSO) access.

Note: A selection of Strong Authentication or Single Sign-On does not affect the Custom Authentication settings, because all configuration settings are handled by the Identity Provider (IdP).

- Allow Password Login: Select this option to allow login to the Console directly, using SSO. This allows SSO setting tests without being locked out of the Console. Once successfully logged into the Console using SSO, Dell recommends that this feature is disabled.
- **Provider:** Select the service provider for the custom authentication.
- X.509 Certificate: Enter the X.509 certification information.
- Login URL: Enter the URL for the custom authentication.

Integrations					
	Syslog/SIEM:				
Custo	m Authentication:	Ø			
		\odot Strong Authentication \bigcirc	Single Sign-On		
		Allow Password Login:	•		
		Provider:*	- Select One -		
		X.509 Certificate:*			
		Login URL:*			
			Save		
п	hreat Data Report:				

Figure 70: Configure Custom Authentication

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Threat Data Report

A spreadsheet that contains the following information about the organization:

- **Threats**: Lists all threats discovered in the organization. This information includes File Name and File Status (*Unsafe, Abnormal, Waived*, and *Quarantined*).
- **Devices**: Lists all devices in the organization that have a Threat Defense Agent installed. This information includes Device Name, Operating System Version, Agent Version, and Policy applied.
- Threat Indicators: Lists each threat and the associated threat characteristics.
- **Cleared**: Lists all files that have been *Cleared* in the organization. This information includes files that were *Waived*, added to the *Safe List*, or *Deleted* from the *Quarantine* folder on a device.
- **Events**: Lists all events related to the Threat Events Graph on the Dashboard, for the last 30 days. This information includes File Hash, Device Name, File Path, and the Date the event occurred.

When this feature is enabled, the report is automatically updated at 1:00AM Pacific Standard Time (PST). Click **Regenerate Report** to manually generate an update.

The Threat Data Report provides a URL and token that can be used to download the report without requiring a login to the Console. A token can also be deleted or regenerated, as needed, which allows control over who has access to the report.

Dashboard 🛛 🗠 Pro	tection 🕈 Zon	es 🔲 Devices	Settings	
Integrations				
Syslog/SIEM:				
Custom Authentication:				
Threat Data Report:	4			
	Token:	Delete or regenerate token. Ne After taking this action, the cu token will no longer be valid.	ote: rrent	
	New Threat Report	token within to tonger be valid.		
	Threats:	https://dt-protect.cylar	ice.com/Reports/ThreatDataReportV1/threats/[Token]	
	Devices:	https://dt-protect.cylar	ice.com/Reports/ThreatDataReportV1/devices/[Token]	
	Events:	https://dt-protect.cylar	ce.com/Reports/ThreatDataReportV1/events/[Token]	
	Indicators:	https://dt-protect.cylar	ice.com/Reports/ThreatDataReportV1/indicators/[Token]	
	Cleared:	https://dt-protect.cylar	ice.com/Reports/ThreatDataReportV1/cleared/[Token]	
	Policies:	https://dt-protect.cylar	ice.com/Reports/ThreatDataReportV1/policies/[Token]	

Figure 71: Generate Threat Data Report

TROUBLESHOOTING

This section provides a list of questions to answer and files to collect when troubleshooting issues with Threat Defense. This information enables Dell Support to assist in resolving issues.

This section also contains some common issues and suggested solutions.

Support

Installation Parameters

- What is the installation method? Provide any parameters used.
 - Example Windows: Use LAUCHAPP=0 when installing from the command line to hide the Agent icon and Start Menu folder at run time.
 - Example Mac OS X: Use SelfProtectionLevel=1 when installing from the command line to disable Self Protection on the Agent.
- Which steps of the installation could be verified?
 - Example Windows: Was the MSI or EXE installer used?
 - Example Any OS: Were any command line options used? Such as Quiet Mode or No Agent user interface.
- Enable verbose logging for the installation.

Performance Concerns

- Capture a screenshot of the Task Manager (Windows) or Activity Monitor (Mac OS X) that shows the Threat Defense processes and memory consumption.
- Capture a dump of the Threat Defense process.
- Collect debug logs.
- Collect output of System Information during the issue.
 - For Windows: msinfo32 or winmsd
 - For Mac OS X: System Information
- Collect any relevant Event Logs (Windows) or Console information (Mac OS X).

Update, Status, and Connectivity Issues

- Ensure that port 443 is open on the firewall and the device can resolve and connect to Cylance.com sites.
- Is the device listed in the Devices page of the Console? Is it Online or Offline? What is its Last Connected time?
- Is a proxy being used by the device to connect to the Internet? Are the credentials properly configured on the proxy?
- Restart the Threat Defense service so that it attempts to connect to the Console.
- Collect debug logs.
- Collect the output of System Information during the issue.
 - o For Windows: msinfo32 or winmsd
 - o For Mac OS X: System Information

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Enabling Debug Logging

By default, Threat Defense maintains log files stored in C:\Program Files\Cylance\Desktop\log. For troubleshooting purposes, Threat Defense can be configured to produce more verbose logs.

Script Control Incompatibilities

Issue:

When Script Control is enabled on some devices, it can cause conflicts with other software running on those devices. This conflict is typically due to the Agent injecting into certain processes that are being called by other software.

Solution:

Depending on the software, this issue can be resolved by adding specific process exclusions to the Device Policy in the Console. Another option is to enable Compatibility Mode (registry key) on each affected device. However, if exclusions are not effective, Dell recommends disabling Script Control in the Device Policy affecting the devices, to restore normal device functionality.

Note: This Compatibility Mode solution is for Agent version 1370. Starting with Agent 1382 and higher, the injection process has been updated for compatibility with other products.

Compatibility Mode

Add the following registry key to enable Compatibility Mode:

- 1. Using the Registry Editor, go to **HKEY_LOCAL_MACHINE\SOFTWARE\Cylance\Desktop**.
- 2. Right-click Desktop, click Permissions, take ownership and grant Full Control. Click OK.
- 3. Right-click **Desktop**, select **New > Binary Value**.
- 4. Name the file **CompatibilityMode**.
- 5. Open the registry setting and change the value to **01**.
- 6. Click **OK**, then close Registry Editor.
- 7. A restart of the device may be required.

Command Line Options

Using Psexec:

psexec -s reg add HKEY_LOCAL_MACHINE\SOFTWARE
\Cylance\Desktop /v CompatibilityMode /t REG_BINARY /d 01

To perform a command on multiple devices, use the Invoke-Command cmdlet:

```
$servers = "testComp1","testComp2","textComp3"
```

```
$credential = Get-Credential -Credential {UserName}\administrator
```

Invoke-Command -ComputerName \$servers -Credential \$credential ScriptBlock {New-Item -Path HKCU:\Software\Cylance\Desktop -Name
CompatibilityMode -Type REG_BINARY -Value 01}

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APPENDIX A: GLOSSARY

Abnormal	A suspicious file with a lower score $(1 - 59)$; less likely to be malware
Administrator	Tenant manager for Threat Defense
Agent	Threat Defense Endpoint Host that communicates with the Console
Audit Log	Log that records actions performed from the Threat Defense Console
Auto-Quarantine	Automatically prevent execution of all Unsafe and/or Abnormal files
Auto Upload	Automatically upload any unknown Portable Executable (PE) files, detected as <i>Unsafe</i> or <i>Abnormal</i> , to the Cylance Infinity Cloud for analysis.
Console	Threat Defense Management User Interface
Device Policy	Threat Defense policy that can be configured by organization administrator that defines how threats are handled on all devices
Global Quarantine	Prevent execution of a file globally (across all devices in an organization)
Global Safe List	Allow execution of a file globally (across all devices in an organization)
Infinity	The Mathematical Model used to score files
Organization	A tenant account using the Threat Defense service
Quarantine	Prevent execution of a file locally (on a specific device)
Threats	Potentially malicious files detected by Threat Defense, classified either as Unsafe or Abnormal
Unsafe	A suspicious file with a high score (60 – 100) likely to be malware
Waive	Allow execution of a file locally (on a specific device)
Zone	A way to organize and group devices within an organization according to priority, functionality, and so forth.
Zone Rule	Feature that enables automation of assigning devices to specific Zones based on IP addresses, Operating System, and device names.

APPENDIX B: HANDLING EXCEPTIONS

There are times when users need to either manually *Quarantine* or *Allow* (*Waive*) a file. Threat Defense provides ways to handle exceptions for each device (*Local*), for a group of devices (*Policy*), or for the entire organization (*Global*).

Files

Local: *Quarantine* or *Waive* (*Safe List*) a file on the device. Useful to temporarily *Block* or *Allow* a file until there is time to analyze it. *Waiving* a file on a device is also useful if that device is the only device on which the file should be allowed to *Execute*. Dell recommends use of *Policy* or *Global* if this action needs to be performed on multiple devices.

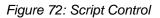
Policy: *Safe List* a file on all devices assigned to a policy. Useful to allow a file for a group of devices (for example, allowing IT devices to run tools that could be used for malicious purposes, such as PsExec). *Quarantine* a file at the Policy level is not available.

Global: *Quarantine* or *Safe List* a file for the organization. *Quarantine* a known malicious file in the organization. *Safe List* a file that is known to be good and is used in the organization, but the Agent is flagging as malicious.

Scripts

Policy: Script Control allows approving scripts to run from a designated folder. Allowing scripts to run for a folder also allows scripts in sub-folders.

Protection Settings	Agent Settings	Script Control					
ol: ON							
nt Version 1310 and highe	r.						
Agent Version		Active Script		Powershell		Macros	
1370 and Below		Alert		Block		N/A	
			0		۲		N/A
		Alert	Block	Alert	Block	Alert	Block
1380 and Above		0	۲	0	۲	0	۲
	nt Version 1310 and highe Agent Version	nt Version 1310 and higher. Agent Version 1370 and Below	nt Version 1310 and higher. Agent Version Active 1370 and Below Alert Alert	nt Version 1310 and higher. Agent Version Agent Version Alert 1370 and Below Alert Block	Agent Version 1310 and higher. Active Script Pow 1370 and Below Image: Constraint of the second seco	Agent Version Active Script Powershell 1370 and Below Image: Constraint of the script	Agent Version 1310 and higher. Agent Version Active Script Powershell Mathematical Mathemat



Certificates

Global: Add certificates to the Console, then add them to the *Global Safe List*. This allows applications signed by this certificate to run in the organization.

To add a certificate, select **Settings > Certificates**, then click **Add Certificate**.

To add the certificate to the *Global Safe List*, select **Settings > Global List**, select the **Safe** tab, select the **Certificates** tab, then click **Add Certificate**.

APPENDIX C: USER PERMISSIONS

Actions users can perform depends upon the user permission (role) assigned to them. In general, Administrators can perform actions anywhere in the organization. Zone Managers and Users are restricted to the Zones they are assigned to. This restriction includes only being able to access devices within a Zone, and only seeing threat data related to those devices. If a Zone Manager or User cannot see a device or threat, chances are the device does not belong to any Zones assigned to them.

	USER	ZONE MANAGER	ADMIN
Agent Update View/Edit			Х
Audit Logging			Λ
View			Х
Devices			Λ
Add Devices – Global			Х
Add Devices to a Zone			Х
Remove Devices – Global			Х
Remove Devices From a Zone		Х	Х
Edit Device Name		X	Х
Zones		Α	
Create Zone			Х
Delete Zone			Х
Edit Zone Name – Any			Х
Edit Assigned Zone Name		Х	Х
Policy			
Create Policy – Global			Х
Create Policy for a Zone			Х
Add Policy – Global			Х
Add Policy to a Zone		Х	Х
Remove Policy – Global			Х
Remove Policy from a Zone		Х	Х
Threats			
Quarantine Files – Global			Х
Quarantine Files in a Zone	Х	Х	Х
Waive Files – Global			Х
Waive Files in a Zone	Х	Х	Х
Global Quarantine/Safe			Х
Settings			
Generate or delete install token			Х
Generate or delete invite URL			Х
Copy install token	Х	Х	Х
Copy invite URL			Х
User Management			
Assign users to any Zone			Х
Assign users to managed Zone		Х	Х
Assign Zone Manager – Global			Х
Assign Zone Manager to managed Zones		Х	Х
Delete users from Console			Х
Remove Users from Zone – Global			Х
Remove Users from managed Zone		Х	Х

APPENDIX D: FILE-BASED WRITE FILTER

The Dell Threat Defense Agent can be installed on a system running Windows Embedded Standard 7 (Thin Client). On embedded devices, writing to the system's storage might not be allowed. In this case, the system might use a File-Based Write Filter (FBWF) to redirect any writes to the system's storage to the cache in the system's memory. This can cause issues with the Agent losing changes whenever the system restarts.

When using the Agent on an embedded system, use the following procedure:

- 1. Before you install the Agent, disable FBWF using the command: fbwfmgr /disable.
- 2. Restart the system. This allows disabling FBWF to take effect.
- 3. Install the Dell Threat Defense Agent.
- 4. After installing the Agent, re-enable FBWF using the command: fbwfmgr /enable.
- 5. Restart the system. This allows enabling FBWF to take effect.
- 6. In FBWF, exclude the following folders:
 - a. C:\Program Files\Cylance\Desktop Excluding this folder allows Agent updates to persist after a system restart.
- 7. Use the following command to exclude the Desktop folder: fbwfmgr /addexclusion C: "\Program Files\Cylance\Desktop\"
 - a. This assumes you are installing to the default directory. Change the exclusion to the folder you installed the Agent to.
- 8. If you plan to store threats on the machine for testing against the Agent, be sure to exclude the storage location from FBWF as well (C:\Samples for example).