12,500 Mailbox Solution using Exchange Server 2013 on Dell PowerEdge R730xd Servers and Dell Storage MD1400 enclosures Deployment Guide
Notes, cautions, and warnings

NOTE: A NOTE indicates important information that helps you make better use of your computer.

CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

WARNING: A WARNING indicates a potential for property damage, personal injury, or death.
### Abbreviations

#### Table 1. Abbreviation and expansion table

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Expansion</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIMM</td>
<td>Dual In-line Memory Module</td>
</tr>
<tr>
<td>NTFS</td>
<td>New Technology File System</td>
</tr>
<tr>
<td>OS</td>
<td>Operating System</td>
</tr>
<tr>
<td>PD</td>
<td>Physical Disk</td>
</tr>
<tr>
<td>RA</td>
<td>Reference Architecture</td>
</tr>
<tr>
<td>SAS</td>
<td>Serial Attached SCSI</td>
</tr>
<tr>
<td>SCSI</td>
<td>Small Computer System Interface</td>
</tr>
<tr>
<td>VD</td>
<td>Virtual Disk</td>
</tr>
<tr>
<td>DAG</td>
<td>Data Availability Groups</td>
</tr>
<tr>
<td>OWA</td>
<td>Outlook Web App</td>
</tr>
<tr>
<td>ECP</td>
<td>Exchange Control Panel</td>
</tr>
<tr>
<td>EMS</td>
<td>Exchange Management Shell</td>
</tr>
<tr>
<td>EAC</td>
<td>Exchange Admin Center</td>
</tr>
</tbody>
</table>
Overview

This guide provides the guidelines to implement a 12,500 mailbox solution on Microsoft Exchange Server 2013, as specified in the current Microsoft Exchange 2013 on Dell PowerEdge R730xd and Dell Storage MD1400 document. The guide also covers the hardware and software requirements to achieve sufficient compute and storage capacity for up to 12,500 Exchange mailboxes with a 5 GB mailbox for each user profile and up to 150 messages per mailbox per day. The solution uses Microsoft Exchange Server 2013 and is powered by nine Dell PowerEdge R730xd servers and nine Dell Storage MD1400 enclosures.
# Solution requirements

This section lists the hardware and software requirements for implementing a 12,500 mailbox solution for Microsoft Exchange Server 2013 using PowerEdge R730xd servers and Dell Storage MD1400 enclosures.

<table>
<thead>
<tr>
<th>Component</th>
<th>Component details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>6X PowerEdge R730xd with sixteen 3.5 inch disk drives at the local site</td>
</tr>
<tr>
<td></td>
<td>3X PowerEdge R730xd with sixteen 3.5 inch disk drives at the remote site</td>
</tr>
<tr>
<td></td>
<td>6X Dell Storage MD1400 with twelve 3.5 inch NL-SAS disk drives per storage enclosure at the local site</td>
</tr>
<tr>
<td>External storage</td>
<td>3X Dell Storage MD1400 with twelve 3.5 inch NL-SAS disk drives per storage enclosure at the local site</td>
</tr>
<tr>
<td>CPU</td>
<td>2X Intel Xeon E5-2660v3 10 core processor per server</td>
</tr>
<tr>
<td>Memory</td>
<td>Up to 192 GB DDR4 RDIMMS per server</td>
</tr>
<tr>
<td>NIC</td>
<td>Broadcom NetXtreme II 57800S NDC and Broadcom 57810 PCIe add-on network interface card (NIC)</td>
</tr>
<tr>
<td>RAID controller</td>
<td>PowerEdge RAID Controller H730P Mini</td>
</tr>
<tr>
<td></td>
<td>PowerEdge RAID Controller H830</td>
</tr>
<tr>
<td>Internal storage capacity</td>
<td>2X 1.2 TB SAS 2.5 inch disk drives. Located in the rear bay for the Operating System and application software.</td>
</tr>
<tr>
<td></td>
<td>16X 4 TB NL-SAS 3.5 inch disk drives. 12 disk drives are located in the front bay and 4 disk drives are located in the internal drive tray for Microsoft Exchange databases.</td>
</tr>
<tr>
<td>Network Fabric</td>
<td>2X Dell Networking N4064 10 GbE switches for LAN connectivity</td>
</tr>
<tr>
<td>Load balancer</td>
<td>KEMP load balancer</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows Server 2012 R2 Datacenter Edition</td>
</tr>
<tr>
<td>Application software</td>
<td>Microsoft Exchange Server 2013 Enterprise</td>
</tr>
</tbody>
</table>
Deploying Microsoft Exchange 2013 for Dell PowerEdge R730xd servers

This section outlines the complete deployment sequence of Microsoft Exchange Server 2013 on Dell PowerEdge R730xd servers.

Deployment workflow

Perform the following tasks to deploy Microsoft Exchange 2013 on the Dell PowerEdge R730xd servers.

2. Deploy the Dell Storage MD1400 direct attached storage box. See Deploying the Dell Storage MD1400.
3. Configure the Dell Storage MD1400. See Configuring PERC H830.
4. Install and configure the Windows operating system. See Installing and configuring Microsoft Windows Server 2012 R2.
5. Install and configure the application software. See Installing and configuring Microsoft Exchange Server 2013.

Configuring components

This section describes how to configure the Dell PowerEdge R730xd servers.

Configuring BIOS

Prerequisites

⚠️ NOTE: Hyper threading and CPU c-states have an impact on the CPU performance. Disabling hyper-threading and setting the system profile to “Performance” in the BIOS ensure uniform CPU utilization and is in line with the best practices.

About this task

Configure the BIOS setting as follows:

Steps

1. Press F2 to enter the system BIOS setup mode, and then click System BIOS.
2. Set System Profile Settings to Performance.

    ⚠️ NOTE: Ensure that the Logical Processor option is disabled.

3. Click Back, and then click OK to return to the main BIOS page.
4. Restart the server to activate the BIOS changes.
Configuring the PERC H730P Mini

This solution leverages internal storage of seven RAID1 volumes of 4 TB disk groups for Exchange database, one unconfigured disk for Restore LUN, and one disk as a Global Hot Spare. The OS VD uses the two rear accessible 1.2 TB disk drives configured as a RAID1 array.

Prerequisites

NOTE: Microsoft’s Best Practices recommend that the size of elements within a RAID stripe be set to 512K for the best performance of Exchange Server 2013 databases.

Steps

1. During host system bootup, press Ctrl+R after the BIOS screen is displayed.
2. Use the arrow keys to highlight the PERC H730 Mini adapter.
   A list of available options is displayed.
4. Select Create New VD and press <Enter>.
   The Create New VD screen is displayed. The cursor is on the RAID Level option.
5. Press <Enter> to display the possible RAID levels.
   NOTE: Select RAID level as RAID 1 for the OS, the database and its transaction logs.
6. Press the down arrow key to select a RAID level and press <Enter>.
7. Press <Tab> to move the cursor to the list of physical disks.
8. Select the two rear 1.2 TB physical disks for the OS VD and the fourteen 4 TB front and internal physical disks for Exchange databases, one internal physical disk for the Restore LUN, and one internal physical disk for the Global Hot Spare.
9. Use the arrow key to highlight a physical disk and press the spacebar or Enter to select the disk.
10. Select additional disks, if required.
11. Press Tab to move the cursor to the Basic Settings box.
12. Set the virtual disk size in the VD Size field.
   The virtual disk size is displayed in GB format.
13. Press <Tab> to access the VD Name field, and type a virtual disk name.
   NOTE: The VD naming convention should be OS for the OS VD, VOL 1–7 for Exchange databases VD.
14. Press Tab to move the cursor to the Advanced settings.
15. Press the spacebar to make the settings active so that you can change them.
   An X is displayed beside the Advanced settings. The settings are Stripe Size, Read Policy, Write Policy, and Disk cache Policy. Ensure that the Stripe Size is set to 512 KB, Read Policy is set to Read Ahead, Write Policy is set to Write Back and Disk Cache Policy is set to Disabled. Select the Initialize option.
16. Press Tab to select OK.
17. Perform the following steps to create global hot spares using disks 15:
   a. Press Ctrl+N to move to the PD Mgmt tab.
   b. Press the down-arrow key to select a physical disk that you want to set as a global hot spare.
   c. Press F2 to display a list of available actions.
   d. Press the down-arrow key to select Make Global HS and press Enter.
      The physical disk is changed to a global hot spare. The status of the physical disk as a global hot spare is displayed under the heading State.
NOTE: To replace a failed physical disk, global hot spares must use the same disk technology and must be equal or greater in size.

The OS and Exchange DB VDs are now created. They can be discovered and managed from the operating system. The solution’s hotspares for the internal storage are also configured to cover disk failure situations.

Deploying the Dell Storage MD1400 enclosure

Prerequisites
Turn off the host system and all the attached storage devices.

Steps
1. Connect one end of the SAS cable to Enterprise Management Module’s (EMM) SAS connector on the Dell Storage MD1400 enclosure, and the other end to the SAS connector of the PERC H830 on the host system. Push the cable into the connector until it clicks into place.
2. Connect the power cables to the power supply units (PSU) and to the power source.
3. Power on the Dell Storage MD1400 enclosure.
4. Power on the host system.
5. Check the LED indicators on the front and back panels of the storage enclosure to ensure that all the hard drives and PSUs are functioning.

NOTE: In a redundant configuration, the enclosure is connected to both the ports of the PERC H830 on the host system.

![Cabling diagram showing the connection of the Dell Storage MD1400 to the PERC H830 controller](image)

This completes the deploying of the Dell Storage MD1400 enclosure.

Configuring the PERC H830

This solution leverages five RAID1 volumes of 4 TB disk groups for Exchange database, one unconfigured disk for Restore LUN, and one disk as a Global Hot Spare.

Prerequisites

NOTE: Microsoft’s Best Practices recommend that the size of elements within a RAID stripe be set to 512K for the best performance of Exchange Server 2013 databases.
Steps
1. During host system bootup, press Ctrl+R after the BIOS screen is displayed.
2. Use the arrow keys to select the PERC H830 adapter.
   A list of available options is displayed.
4. Select Create New VD and press Enter.
   The Create New VD screen is displayed. The cursor is on the RAID Level option.
5. Press Enter to display the possible RAID levels.
   NOTE: Select RAID level as RAID 1 for the database and its transaction logs.
6. Press the down arrow key to select a RAID level and press Enter.
7. Press Tab to move the cursor to the list of physical disks.
8. Use the arrow key to highlight a physical disk, and then press the spacebar or Enter to select the disk.
9. Select additional disks, if required.
10. Press Tab to move the cursor to Basic Settings.
11. Set the virtual disk size in the VD Size field.
    The virtual disk size is displayed in GB.
12. Press Tab to access the VD Name field, and type a virtual disk name.
   NOTE: The VD naming convention should be VOL 8 - 12 for Exchange databases VD.
13. Press Tab to access the Advanced settings.
14. Press the spacebar to make the settings active so that you can modify these settings.
15. An X is displayed next to Advanced settings. In the Advanced settings, ensure the following:
   • Stripe Size is set to 512 KB
   • Read Policy is set to Read Ahead
   • Write Policy is set to Write Back
   • Disk Cache Policy is set to Disabled
16. Select the Initialize option.
17. Press Tab to select OK.
18. Perform the following steps to create global hot spares using disk 11:
   a. Press Ctrl+N to move to the PD Mgmt tab.
   b. Press the down-arrow key to select a physical disk that you want to set as a global hot spare.
   c. Press F2 to display a list of available actions.
   d. Press the down-arrow key to select Make Global HS and press Enter.
      The physical disk is changed to a global hot spare. The status of the physical disk as a global hot spare is displayed under the State section.
   NOTE: To replace a failed physical disk, global hot spares must use the same disk technology and must be equal or greater in size.

Next steps
The Exchange DB VDs are now created. The Exchange DB VDs can be discovered and managed from the operating system. The solution’s hot spares are also configured to cover disk failure scenarios.

Configuring the Dell Networking N4064 switch
About this task
To configure the Dell Networking N4064 switch, perform the following steps:
Steps

1. Using the Serial Console, connect to the Dell Networking N4064 switch.

2. Access the switch through the serial console (CLI) using COM1 port and set at a Baud rate of 9600 bps.
   To access the console, connect one end of the serial cable to the console port on the N4064 switch, and the other end to the terminal server.

3. Open the switch console using the HyperTerminal (terminal emulator application).

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configure the hostname for the Dell Networking N4064 switch.</td>
<td>Configure the hostname for the Dell Networking N4064 switch.</td>
</tr>
<tr>
<td>enable</td>
<td>enable</td>
</tr>
<tr>
<td>configure</td>
<td>configure</td>
</tr>
<tr>
<td>hostname N4064-S1</td>
<td>hostname N4064-S2</td>
</tr>
</tbody>
</table>

 Disable DCB which is set to enable by default.

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>no dcb enable</td>
<td>no dcb enable</td>
</tr>
</tbody>
</table>

Configure Out-of-band (OOB) access.

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface out-of-band</td>
<td>interface out-of-band</td>
</tr>
<tr>
<td>ip address &lt;ipaddress&gt; &lt;mask&gt; &lt;gateway&gt;</td>
<td>ip address &lt;ipaddress&gt; &lt;mask&gt; &lt;gateway&gt;</td>
</tr>
</tbody>
</table>

Configure telnet and webaccess.

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>line telnet</td>
<td>line telnet</td>
</tr>
<tr>
<td>login authentication default</td>
<td>login authentication default</td>
</tr>
<tr>
<td>exit</td>
<td>exit</td>
</tr>
<tr>
<td>ip http authentication local</td>
<td>ip http authentication local</td>
</tr>
</tbody>
</table>

Configure the username and password.

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>username admin password &lt;password&gt; privilege 15</td>
<td>username admin password &lt;password&gt; privilege 15</td>
</tr>
</tbody>
</table>

Enable the switch ports.

<table>
<thead>
<tr>
<th>Switch 1</th>
<th>Switch 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>interface range tengigabitethernet all</td>
<td>interface range tengigabitethernet all</td>
</tr>
<tr>
<td>no shutdown</td>
<td>no shutdown</td>
</tr>
<tr>
<td>interface range fortygigabitethernet all</td>
<td>interface range fortygigabitethernet all</td>
</tr>
<tr>
<td>no shutdown</td>
<td>no shutdown</td>
</tr>
<tr>
<td>exit</td>
<td>exit</td>
</tr>
</tbody>
</table>
Switch 1

exit

Switch 2

exit

Save the configuration.

copy running-config startup-config
copy running-config startup-config

y

y

Installing and configuring Microsoft Windows Server 2012 R2

This section describes the installation and configuration of Windows Server 2012 R2 for Exchange Server 2013.

Installing Microsoft Windows Server 2012 R2

Prerequisites
Keep the Windows installation media ready to start the installation.

Steps
1. Follow the instructions in the Windows Setup wizard and click Next to go to the installation screen.
2. Click Install.
3. In the Windows Setup wizard, enter the product key to activate Windows.
4. Select the Windows Server 2012 R2 Datacenter (Server with a GUI) option.
5. In License Agreement, select I accept the terms in the license agreement and then click Next.
6. Select the Custom Install Windows only option.
7. Select Drive 0 Unallocated Space and click New.
8. Select the partition where you want to install the OS and click Next.
   An information box about Windows creating additional partitions for system files is displayed.
9. Click OK to continue.
   The Windows Setup wizard displays information about the partitions for your reference. Click Next.
   
   ![NOTE: The Windows Setup wizard gathers all the required information and proceeds with the installation.](image)

10. Click Restart now to complete the installation of the OS.
11. In the Settings window, enter the user name and password for the built-in administrator account.
12. Click Finish.

Next steps
The Windows server installation is now complete. Enter the user name and password to sign in to the Windows server.

![NOTE: Follow the same procedure to install the OS on the remaining eight servers.](image)

Configuring Windows Server 2012 R2

1. Set the Time zone on the server.
2. Attach the new server to the existing domain.
3. Format the disk drives for Exchange databases.

   NOTE: For both exchange database and log file volumes, ensure that the NTFS allocation unit size is set to 64 KB while formatting the disk drives.

Installing and configuring Microsoft Exchange Server 2013

Installing prerequisite packages for Microsoft Exchange Server 2013

Prerequisites

- All the procedures in this section require elevated permissions to install successfully.
- Keep the installation media ready to start the installation.
- Download Unified Communications Managed API 4.0 Runtime.
- Download Microsoft Office 2010 Filter Pack 64 bit.
- Download Microsoft Office 2010 Filter Pack SP1 64 bit.
- Open Command Prompt.
- Start Windows PowerShell by performing any of the following steps:
  - From the desktop taskbar, click Windows PowerShell.
  - On the Server Manager page, right-click the entry for any managed server, and then click Windows PowerShell.

   NOTE: All the steps outlined in this section need to be performed only if you are installing Microsoft Exchange Server 2013 for the first time. The exception is the Active Directory preparation which has to be run once, only on the first server.

Steps

1. To prepare Active Directory, perform the following steps:

   NOTE: Active Directory preparation should be run only on the first server.

   a. At the PowerShell prompt, enter the following command: Install-WindowsFeature RSAT-ADDS. Press Enter.
      When the installation is complete, the status of the installation is displayed.
   b. In the command line window, navigate to the Exchange installation directory.
   c. At the command prompt, enter the following command: setup /PrepareAD /OrganizationName: your organization name /IAcceptExchangeServerLicenseTerms. Press Enter.

      NOTE: your organization name should be replaced by your Exchange organization name.
      When the installation is complete, the status of the installation is displayed.

2. To install Exchange Server 2013 prerequisites, perform the following steps:

To install Unified Communications Managed API (UCMA) 4.0, launch the executable file that you saved and follow the instructions on the screen to accept the End-User License Agreement (EULA). The setup wizard will install all the necessary components.

4. To install Microsoft Office 2010 Filter Pack 64 bit, launch the executable file that you saved and follow the instructions on the screen to accept the End-User License Agreement (EULA). The setup wizard will install all the necessary components.

5. To install Microsoft Office 2010 Filter Pack SP1 64 bit, launch the executable file that you saved and follow the instructions on the screen to accept the End-User License Agreement (EULA). The setup wizard will install all the necessary components.

Restart the server to complete the installation of the prerequisite packages for Microsoft Exchange Server 2013.

Installing Microsoft Exchange Server 2013

Prerequisites

1. Keep the installation media ready to start the installation.
2. Navigate to the Microsoft Exchange Server 2013 installation media.

Steps

1. To start Microsoft Exchange Server 2013 Setup, select Setup.exe, and right-click Run as Administrator.
2. On the Check for Updates page, select whether you want Setup to connect to the Internet and download product and security updates. Click next.
3. The Introduction page gives additional guidance for the installation procedure. Review the content and click Next.
4. On the License Agreement page, if you agree to the license terms, I accept the license and click next.
5. On the Recommended Setting page, select Use recommended settings. Click next.
6. On the Server Role Selection page, select the Mailbox role, Client Access role, Management tools, and Automatically install Windows Server role and features that are required to install Exchange Server check boxes. Click next.
7. On the Installation Space and Location page, either accept the default installation location or click Browse to choose a new location with adequate storage space. Click next.
8. On the Malware Protection Setting page, choose whether to enable or disable malware scanning. Click next.
9. Once the readiness checks are complete on the Readiness Checks page, click install to start the installation.
10. The Setup Progress page shows the progress of the installation.
11. Once the installation is complete, the Setup Completed page appears. You can choose to launch the Exchange Administration Center by selecting the check box. Click finish to complete the installation.
12. Restart the server.

The Microsoft Exchange Server 2013 installation is now complete.
NOTE: Follow the same procedure to install Microsoft Exchange Server 2013 on the remaining eight servers.

Configuring Microsoft Exchange Server 2013

- Log in to Exchange Admin Center (EAC) in a browser that has Administrator privileges.
- All the commands in this section are to be run on Exchange Management Shell as an Administrator.

Install the product key for Microsoft Exchange Server 2013

To install the product key for Microsoft Exchange 2013, perform the following steps:

1. On the Exchange admin center page, select servers from the listing on the left side.
2. On the servers page, select the server from the list, and click Enter Product Key on the right side of the page under the server description.
3. On the server details page that is displayed, select general and enter a valid product key in the field provided. Click save to exit this page.
4. A warning appears informing you that the product key has been validated and that the product ID has been successfully created. Click ok.

   NOTE: Repeat steps 2 – 4 to install the product key on the remaining Microsoft Exchange Servers.

   NOTE: The updated information will not take effect until the Information Store has been restarted.

The status description of the server will be updated to show Enterprise Licensed.

Identify the default databases

At the PowerShell prompt, enter the following command: Get-MailboxDatabase
The following table is a sample of the expected result.

<table>
<thead>
<tr>
<th>Name</th>
<th>Server</th>
<th>Recovery</th>
<th>Replication Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX1</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>1943020564</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX2</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>1347528707</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX3</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>0209038692</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX4</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>1707407357</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX5</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>1604672634</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>BLRMBX6</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>0780712749</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mailbox Database</td>
<td>AUSMBX2</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>0884525113</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>Server</td>
<td>Recovery</td>
<td>Replication Type</td>
</tr>
<tr>
<td>-----------------</td>
<td>---------</td>
<td>----------</td>
<td>------------------</td>
</tr>
<tr>
<td>Mailbox Database 1790828222</td>
<td>AUSMBX1</td>
<td>False</td>
<td>None</td>
</tr>
<tr>
<td>Mailbox Database 1086472273</td>
<td>AUSMBX3</td>
<td>False</td>
<td>None</td>
</tr>
</tbody>
</table>

### Rename the default databases

**About this task**
Based on the database layout, we need to rename the databases on servers hosted in Site A (for example, BLR) and move them to the appropriate location.

**Steps**
1. To rename databases, first login to the EAC.
2. Click **Servers** in the left pane.
3. Click on **databases**.
4. Select the database you wish to rename (for example, Mailbox Database 1943020564 which is active on first server BLRMBX1).
   a. Click the Pencil icon.
   b. In the mailbox databases window, click **general** in the left pane.
   c. Type the new name of the database in the **Name** field, in this example is the name is DB1 and click **Save**.
5. Repeat steps 2 to 4 to rename the remaining 5 databases on the remaining servers in the primary site (BLR).

**NOTE:** Rename the default mailboxes on the servers BLRMBX2, BLRMBX3, BLRMBX4, BLRMBX5 and BLRMBX6 to DB2, DB3, DB4, DB5 and DB6 respectively.

<table>
<thead>
<tr>
<th>Default mailbox database name</th>
<th>Server</th>
<th>New mailbox database name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mailbox Database 1943020564</td>
<td>BLRMBX1</td>
<td>DB1</td>
</tr>
<tr>
<td>Mailbox Database 1347528707</td>
<td>BLRMBX2</td>
<td>DB2</td>
</tr>
<tr>
<td>Mailbox Database 0209038692</td>
<td>BLRMBX3</td>
<td>DB3</td>
</tr>
<tr>
<td>Mailbox Database 1707407357</td>
<td>BLRMBX4</td>
<td>DB4</td>
</tr>
<tr>
<td>Mailbox Database 1604672634</td>
<td>BLRMBX5</td>
<td>DB5</td>
</tr>
<tr>
<td>Mailbox Database 0780712749</td>
<td>BLRMBX6</td>
<td>DB6</td>
</tr>
</tbody>
</table>

**NOTE:** The default mailbox database name will be different from the examples used here.

### Move the default databases

**About this task**
To move the databases to appropriate location, logon to the corresponding server where the database is stored and run the following commands:

**NOTE:** Since DB1 is on BLRMBX1, you will have to logon to BLRMBX1 and run the command. Similarly, to move DB2, DB3, DB4, DB5 and DB6 logon to BLRMBX2, BLRMBX3, BLRMBX4, BLRMBX5 and BLRMBX6 respectively and run the command.
Steps
1. Move-DatabasePath -Identity DB1 -EdbFilePath "E:\Database\DB1\DB1.edb" -LogFolderPath "E:\Log \Log1"
2. Move-DatabasePath -Identity DB2 -EdbFilePath "E:\Database\DB2\DB2.edb" -LogFolderPath "E:\Log \Log2"
3. Move-DatabasePath -Identity DB3 -EdbFilePath "E:\Database\DB3\DB3.edb" -LogFolderPath "E:\Log \Log3"
4. Move-DatabasePath -Identity DB4 -EdbFilePath "E:\Database\DB4\DB4.edb" -LogFolderPath "E:\Log \Log4"
5. Move-DatabasePath -Identity DB5 -EdbFilePath "E:\Database\DB5\DB5.edb" -LogFolderPath "E:\Log \Log5"
6. Move-DatabasePath -Identity DB6 -EdbFilePath "E:\Database\DB6\DB6.edb" -LogFolderPath "E:\Log \Log6"

Delete the default databases at remote site

About this task
To delete the databases created during installing Exchange at Site B (AUS), identify the databases, then remove them by running these commands.

Steps
1. Run this command Get-MailboxDatabase –Server <server name> to identify the databases. For example: Get-MailboxDatabase –Server AUSMBX1
2. Run this command Remove-MailboxDatabase <Database Name> to remove the databases. For example: Remove-MailboxDatabase "Mailbox Database 1790828222"

   NOTE: You must remove the database file located in the Default Exchange Directory from your servers manually if it exists.

   NOTE: Run these commands on all three servers at Site B (AUS).

Creating, mounting, and verifying the Exchange databases

1. To create the Exchange databases, perform the following steps:

   NOTE: Database layout is as shown in the diagram.
a. New-MailboxDatabase DB7 - Server BLRMBX1 - EdbFilePath "F:\Database\DB7\DB7.edb" - LogFolderPath "F:\Log\Log7"

b. New-MailboxDatabase DB8 - Server BLRMBX2 - EdbFilePath "F:\Database\DB8\DB8.edb" - LogFolderPath "F:\Log\Log8"

c. New-MailboxDatabase DB9 - Server BLRMBX3 - EdbFilePath "F:\Database\DB9\DB9.edb" - LogFolderPath "F:\Log\Log9"

d. New-MailboxDatabase DB10 - Server BLRMBX4 - EdbFilePath "F:\Database\DB10\DB10.edb" - LogFolderPath "F:\Log\Log10"

e. New-MailboxDatabase DB11 - Server BLRMBX5 - EdbFilePath "F:\Database\DB11\DB11.edb" - LogFolderPath "F:\Log\Log11"
f. New-MailboxDatabase DB12 -Server BLRMBX6 -EdbFilePath "F:\Database\DB12\DB12.edb" -LogFolderPath "F:\Log\Log12"
g. New-MailboxDatabase DB13 -Server BLRMBX1 -EdbFilePath "G:\Database\DB13\DB13.edb" -LogFolderPath "G:\Log\Log13"
h. New-MailboxDatabase DB14 -Server BLRMBX2 -EdbFilePath "G:\Database\DB14\DB14.edb" -LogFolderPath "G:\Log\Log14"
i. New-MailboxDatabase DB15 -Server BLRMBX3 -EdbFilePath "G:\Database\DB15\DB15.edb" -LogFolderPath "G:\Log\Log15"
j. New-MailboxDatabase DB16 -Server BLRMBX4 -EdbFilePath "G:\Database\DB16\DB16.edb" -LogFolderPath "G:\Log\Log16"
k. New-MailboxDatabase DB17 -Server BLRMBX5 -EdbFilePath "G:\Database\DB17\DB17.edb" -LogFolderPath "G:\Log\Log17"
l. New-MailboxDatabase DB18 -Server BLRMBX6 -EdbFilePath "G:\Database\DB18\DB18.edb" -LogFolderPath "G:\Log\Log18"
m. New-MailboxDatabase DB19 -Server BLRMBX1 -EdbFilePath "H:\Database\DB19\DB19.edb" -LogFolderPath "H:\Log\Log19"
n. New-MailboxDatabase DB20 -Server BLRMBX2 -EdbFilePath "H:\Database\DB20\DB20.edb" -LogFolderPath "H:\Log\Log20"
o. New-MailboxDatabase DB21 -Server BLRMBX3 -EdbFilePath "H:\Database\DB21\DB21.edb" -LogFolderPath "H:\Log\Log21"
p. New-MailboxDatabase DB22 -Server BLRMBX4 -EdbFilePath "H:\Database\DB22\DB22.edb" -LogFolderPath "H:\Log\Log22"
q. New-MailboxDatabase DB23 -Server BLRMBX5 -EdbFilePath "H:\Database\DB23\DB23.edb" -LogFolderPath "H:\Log\Log23"
r. New-MailboxDatabase DB24 -Server BLRMBX6 -EdbFilePath "H:\Database\DB24\DB24.edb" -LogFolderPath "H:\Log\Log24"
s. New-MailboxDatabase DB25 -Server BLRMBX1 -EdbFilePath "I:\Database\DB25\DB25.edb" -LogFolderPath "I:\Log\Log25"
t. New-MailboxDatabase DB26 -Server BLRMBX2 -EdbFilePath "I:\Database\DB26\DB26.edb" -LogFolderPath "I:\Log\Log26"
u. New-MailboxDatabase DB27 -Server BLRMBX3 -EdbFilePath "I:\Database\DB27\DB27.edb" -LogFolderPath "I:\Log\Log27"
v. New-MailboxDatabase DB28 -Server BLRMBX4 -EdbFilePath "I:\Database\DB28\DB28.edb" -LogFolderPath "I:\Log\Log28"
w. New-MailboxDatabase DB29 -Server BLRMBX5 -EdbFilePath "I:\Database\DB29\DB29.edb" -LogFolderPath "I:\Log\Log29"
x. New-MailboxDatabase DB30 -Server BLRMBX6 -EdbFilePath "I:\Database\DB30\DB30.edb" -LogFolderPath "I:\Log\Log30"
y. New-MailboxDatabase DB31 -Server BLRMBX1 -EdbFilePath "J:\Database\DB31\DB31.edb" -LogFolderPath "J:\Log\Log31"
z. New-MailboxDatabase DB32 -Server BLRMBX2 -EdbFilePath "J:\Database\DB32\DB32.edb" -LogFolderPath "J:\Log\Log32"
aa. New-MailboxDatabase DB33 -Server BLRMBX3 -EdbFilePath "J:\Database\DB33\DB33.edb" -LogFolderPath "J:\Log\Log33"
ab. New-MailboxDatabase DB34 -Server BLRMBX4 -EdbFilePath "J:\Database\DB34\DB34.edb" -LogFolderPath "J:\Log\Log34"
ac. New-MailboxDatabase DB35 -Server BLRMBX5 -EdbFilePath "J:\Database\DB35\DB35.edb" -LogFolderPath "J:\Log\Log35"
ad. New-MailboxDatabase DB36 -Server BLRMBX6 -EdbFilePath "J:\Database\DB36\DB36.edb" -LogFolderPath "J:\Log\Log36"
ae. New-MailboxDatabase DB37 -Server BLRMBX1 -EdbFilePath "K:\Database\DB37\DB37.edb" -LogFolderPath "K:\Log\Log37"
af. New-MailboxDatabase DB38 -Server BLRMBX2 -EdbFilePath 'K:\Database\DB38\DB38.edb' - LogFolderPath 'K:\Log\Log38'
ag. New-MailboxDatabase DB39 -Server BLRMBX3 -EdbFilePath 'K:\Database\DB39\DB39.edb' - LogFolderPath 'K:\Log\Log39'
ah. New-MailboxDatabase DB40 -Server BLRMBX4 -EdbFilePath 'K:\Database\DB40\DB40.edb' - LogFolderPath 'K:\Log\Log40'
ai. New-MailboxDatabase DB41 -Server BLRMBX5 -EdbFilePath 'K:\Database\DB41\DB41.edb' - LogFolderPath 'K:\Log\Log41'
aj. New-MailboxDatabase DB42 -Server BLRMBX6 -EdbFilePath 'K:\Database\DB42\DB42.edb' - LogFolderPath 'K:\Log\Log42'
ak. New-MailboxDatabase DB43 -Server BLRMBX1 -EdbFilePath 'L:\Database\DB43\DB43.edb' - LogFolderPath 'L:\Log\Log43'
al. New-MailboxDatabase DB44 -Server BLRMBX2 -EdbFilePath 'L:\Database\DB44\DB44.edb' - LogFolderPath 'L:\Log\Log44'
am. New-MailboxDatabase DB45 -Server BLRMBX3 -EdbFilePath 'L:\Database\DB45\DB45.edb' - LogFolderPath 'L:\Log\Log45'
an. New-MailboxDatabase DB46 -Server BLRMBX4 -EdbFilePath 'L:\Database\DB46\DB46.edb' - LogFolderPath 'L:\Log\Log46'
ao. New-MailboxDatabase DB47 -Server BLRMBX5 -EdbFilePath 'L:\Database\DB47\DB47.edb' - LogFolderPath 'L:\Log\Log47'
ap. New-MailboxDatabase DB48 -Server BLRMBX6 -EdbFilePath 'L:\Database\DB48\DB48.edb' - LogFolderPath 'L:\Log\Log48'
aq. New-MailboxDatabase DB49 -Server BLRMBX1 -EdbFilePath 'M:\Database\DB49\DB49.edb' - LogFolderPath 'M:\Log\Log49'
ar. New-MailboxDatabase DB50 -Server BLRMBX2 -EdbFilePath 'M:\Database\DB50\DB50.edb' - LogFolderPath 'M:\Log\Log50'
as. New-MailboxDatabase DB51 -Server BLRMBX3 -EdbFilePath 'M:\Database\DB51\DB51.edb' - LogFolderPath 'M:\Log\Log51'
at. New-MailboxDatabase DB52 -Server BLRMBX4 -EdbFilePath 'M:\Database\DB52\DB52.edb' - LogFolderPath 'M:\Log\Log52'
au. New-MailboxDatabase DB53 -Server BLRMBX5 -EdbFilePath 'M:\Database\DB53\DB53.edb' - LogFolderPath 'M:\Log\Log53'
av. New-MailboxDatabase DB54 -Server BLRMBX6 -EdbFilePath 'M:\Database\DB54\DB54.edb' - LogFolderPath 'M:\Log\Log54'
aw. New-MailboxDatabase DB55 -Server BLRMBX1 -EdbFilePath 'N:\Database\DB55\DB55.edb' - LogFolderPath 'N:\Log\Log55'
ax. New-MailboxDatabase DB56 -Server BLRMBX2 -EdbFilePath 'N:\Database\DB56\DB56.edb' - LogFolderPath 'N:\Log\Log56'
ay. New-MailboxDatabase DB57 -Server BLRMBX3 -EdbFilePath 'N:\Database\DB57\DB57.edb' - LogFolderPath 'N:\Log\Log57'
az. New-MailboxDatabase DB58 -Server BLRMBX4 -EdbFilePath 'N:\Database\DB58\DB58.edb' - LogFolderPath 'N:\Log\Log58'
ba. New-MailboxDatabase DB59 -Server BLRMBX5 -EdbFilePath 'N:\Database\DB59\DB59.edb' - LogFolderPath 'N:\Log\Log59'
bb. New-MailboxDatabase DB60 -Server BLRMBX6 -EdbFilePath 'N:\Database\DB60\DB60.edb' - LogFolderPath 'N:\Log\Log60'
bc. New-MailboxDatabase DB61 -Server BLRMBX1 -EdbFilePath 'O:\Database\DB61\DB61.edb' - LogFolderPath 'O:\Log\Log61'
bd. New-MailboxDatabase DB62 -Server BLRMBX2 -EdbFilePath 'O:\Database\DB62\DB62.edb' - LogFolderPath 'O:\Log\Log62'
be. New-MailboxDatabase DB63 -Server BLRMBX3 -EdbFilePath 'O:\Database\DB63\DB63.edb' - LogFolderPath 'O:\Log\Log63'
bf. New-MailboxDatabase DB64 -Server BLRMBX4 -EdbFilePath "O:\Database\DB64\DB64.edb" -LogFolderPath "O:\Log\Log64"
b. New-MailboxDatabase DB65 -Server BLRMBX5 -EdbFilePath "O:\Database\DB65\DB65.edb" -LogFolderPath "O:\Log\Log65"

bh. New-MailboxDatabase DB66 -Server BLRMBX6 -EdbFilePath "O:\Database\DB66\DB66.edb" -LogFolderPath "O:\Log\Log66"

bi. New-MailboxDatabase DB67 -Server BLRMBX1 -EdbFilePath "P:\Database\DB67\DB67.edb" -LogFolderPath "P:\Log\Log67"

bj. New-MailboxDatabase DB68 -Server BLRMBX2 -EdbFilePath "P:\Database\DB68\DB68.edb" -LogFolderPath "P:\Log\Log68"

bk. New-MailboxDatabase DB69 -Server BLRMBX3 -EdbFilePath "P:\Database\DB69\DB69.edb" -LogFolderPath "P:\Log\Log69"

bl. New-MailboxDatabase DB70 -Server BLRMBX4 -EdbFilePath "P:\Database\DB70\DB70.edb" -LogFolderPath "P:\Log\Log70"

bm. New-MailboxDatabase DB71 -Server BLRMBX5 -EdbFilePath "P:\Database\DB71\DB71.edb" -LogFolderPath "P:\Log\Log71"

bn. New-MailboxDatabase DB72 -Server BLRMBX6 -EdbFilePath "P:\Database\DB72\DB72.edb" -LogFolderPath "P:\Log\Log72"

2. Restart the Microsoft Exchange Information Store service on all the servers after adding new mailbox databases.
4. To verify that the databases are mounted, run this command Get-MailboxDatabase -Status | select name,mounted in EMS.
5. Assign Offline Address Book for the new databases by running this command Get-MailboxDatabase | Where {$_._OfflineAddressBook -eq $null} | Set-MailboxDatabase -OfflineAddressBook "\Default Offline Address Book"
6. Assign the mailbox quota by running this command Get-MailboxDatabase | Set-MailboxDatabase -IssueWarningQuota 4.5gb -ProhibitSendQuota 4.75gb -ProhibitSendReceiveQuota 5gb

**Configuring the Virtual Directories**

**About this task**
In the Exchange Management Shell, configure the following Virtual Directories to allow clients to connect to the new server from the intranet, you also need to configure the internal domains or URL’s on the Client Access server’s virtual directories, and then configure your private domain name service (DNS) records.

**Steps**
1. To configure **OWA Virtual Directory**, use this command: Set-OwaVirtualDirectory "BLRMBX1\owa (Default Web Site)" -ExternalUrl https://mail.exchange.lab/owa -InternalUrl https://mail.exchange.lab/owa

   **NOTE:** This command can be used to set the directory on all exchange servers by changing the server name. For example, change BLRMBX1 to BLRMBX2 to set the directory on the server named BLRMBX2.

2. To configure **ECP Virtual Directory**, use this command: Set-EcpVirtualDirectory "BLRMBX1\ecp (Default Web Site)" -ExternalUrl https://mail.exchange.lab/ecp -InternalUrl https://mail.exchange.lab/ecp

   **NOTE:** This command can be used to set the directory on all exchange servers by changing the server name. For example, change BLRMBX1 to BLRMBX2 to set the directory on the server named BLRMBX2.
3. To configure **OAB Virtual Directory**, use this command: 
   ```powershell
   Set-OabVirtualDirectory "BLRMBX1\oab (Default Web Site)" -ExternalUrl https://mail.exchange.lab/oab -InternalUrl https://mail.exchange.lab/oab
   ```

   **NOTE:** This command can be used to set the directory on all exchange servers by changing the server name. For example, change BLRMBX1 to BLRMBX2 to set the directory on the server named BLRMBX2.

---

**Configure Exchange Web Services and Microsoft Server ActiveSync**

**Prerequisites**
Log in to EAC to perform the following steps

**About this task**
To configure the Exchange Web Services (EWS) and the Microsoft Server ActiveSync (Default Web Site) URL, perform the following steps:

**Steps**
1. To configure the EWS, click **server** in the left pane of the EAC.
   a. Click **virtual directories** from the tab on the top of the page.
   b. Double click **EWS (Default Web Site)** for each server.
   c. In the **EWS (Default Web Site)** page, enter the **Internal URL and External URL** in the space provided. Click **save** to exit the page.

   **NOTE:** Perform this procedure for the remaining eight Exchange servers.

2. To configure the Microsoft Server ActiveSync (Default Web Site) URL, click **server** in the left pane of the EAC.
   a. Click **virtual directories** from the tab on the top of the page.
   b. Double click **Microsoft-Server-ActiveSync (Default Web Site)** for each server.
   c. On the **Microsoft-Server-ActiveSync (Default Web Site)** page, enter the **Internal URL and External URL** in the space provided. Click **save** to exit the page.

   **NOTE:** Perform this procedure for the remaining eight Exchange servers.

---

**Set Autodiscover and OutlookAnywhere**

1. In the Exchange Management Shell, use this command:
   ```powershell
   Set-ClientAccessServer -Identity BLRMBX1 -AutoDiscoverServiceInternalUri https://autodiscover.exchangelab.com/Autodiscover/Autodiscover.xml
   ```

   **NOTE:** This command can be used to set the **Autodiscover** URL on all exchange servers by changing the server name. For example, change BLRMBX1 to BLRMBX2 to set the **Autodiscover** URL on the server named BLRMBX2.

2. In the Exchange Management Shell, use this command:
   ```powershell
   Get-OutlookAnywhere -Server BLRMBX1 | Set-OutlookAnywhere -ExternalHostname ail.exchange.lab -DefaultAuthenticationMethod NTLM -ExternalClientsRequireSsl $true
   ```

   **NOTE:** This command can be used to set **OutlookAnywhere** on all exchange servers by changing the server name. For example, change BLRMBX1 to BLRMBX2 to set **OutlookAnywhere** on the server named BLRMBX2.

---

**Creating a Send Connector**

**About this task**
To send mail outside your domain, you need to create a Send connector.
Steps
1. In the EAC, navigate to Mail flow → Send connectors, and then click Add +.
2. In the New send connector wizard, specify a name for the send connector and then select Internet for the Type. Click Next.
3. Verify that MX record associated with recipient domain is selected, which specifies that the connector uses the domain name system (DNS) to route mail. Click Next.
4. Under Address space, click +. In the Add domain window, ensure that SMTP is listed as the Type. For Fully Qualified Domain Name (FQDN), enter *, which indicates that this send connector applies to messages addressed to any domain. Click Save.
5. Make sure Scoped send connector is not selected and then click Next.
6. For Source server, click +. In the Select a server window, select a Mailbox server that will be used to send mail to the Internet through the Client Access server and click +. After you have selected the server, click OK.
7. Click Finish.

Once you have created the Send connector, it appears in the Send connector list.

Creating and configuring the Database Availability Group (DAG)

About this task
As the file share witness server is not an Exchange server, some additional permissions are required. The Exchange Trusted Subsystem group in Active Directory must be added to the local Administrators group on the server. The file share witness also requires that the File Server feature be installed.

Steps
1. Start Computer Management by right clicking on the Windows logo button or from Administrative Tools.
2. Navigate to Computer Management in the left pane listed under Local Users and Groups and click Groups.
3. Double click the Administrators profile.
4. Click Add to add Exchange Trusted Subsystem to the list of members. Click Apply to save and exit this page.
5. Run this command: Add-WindowsFeature FS-FileServer at the prompt in Windows PowerShell.

   NOTE: Ensure that File and Printer Sharing is allowed through the firewall.

Configuring networks for Exchange 2013 Database Availability Groups

About this task
Configure networks for Exchange 2013 Database Availability Groups by performing the following steps.

Steps
1. Pre-Staging the Cluster Name Object (CNO)
   The CNO is simply a computer account object in Active Directory.
   Create a new computer object with the name that you intend to give to your DAG. Then disable the computer account.
2. Log in to the Domain Controller and open Active Directory Users and Computers snap-in.
3. Right-click Computers and choose New → Computer. Ensure that you have enabled advanced features in Active Directory Users and Computers.
4. On the New Object - Computer screen, type the Computer name. The computer name should be the same as the DAG name, because we are creating the DAG. Click OK to save.
5. Right-click the computer account and click Disable Account. The computer icon changes to indicate that this computer is now disabled.
6. Open properties of this new computer account. Select **Security** tab. Under **Groups or user names**, click **Add**.

7. Add Mailbox server into the space provided to **Enter the object names to select** and click **OK**.

8. Select computer account and give **Full control** in the **Permission** list box. Click **OK**.

**Creating Database Availability Groups**

**About this task**
To create Database Availability Groups (DAG), perform the following steps.

**Steps**
1. In the **EAC**, navigate to **Servers → Database Availability Groups** and click the **+** icon to create a new DAG.

2. In the **new database availability group** page, fill in the details for the **DAG name**, **Witness server**, **Witness directory and IP address** (if available). Click **Save**.

   **NOTE:** The name of DAG must match the CNO object created in Active Directory. Under witness server, type the FQDN of Witness Server. Under witness directory, type the location of the shared folder. You can configure the DAG IP or leave it blank, leaving it blank will get IP from DHCP server if the DHCP server is configured. The DAG IP is actually assigned to DAG name and the DAG name will be resolved to assigned/DHCP IP address.

**Adding Member servers to the Database Availability Groups**

**About this task**
After the Database Availability Groups (DAG) has been created it still does not contain any members. These will be added in the next steps.

**Steps**
1. To open the DAG member management page, double click the new DAG or highlight the new DAG and click the manage icon.

2. On the **manage database availability group membership** page, click the **+** icon. The **Select Server** page appears.

3. Select all the servers listed and click the **add**. Click **ok** to save and exit the page.

4. On the **manage database availability group membership** page, the selected servers will be listed in the **MEMBER SERVERS** list box.

5. After clicking **Save**, **Windows Failover Clustering** components will be installed in each DAG members. Click **close** once the installation is complete.

   You can view the DAG information which includes the member servers and witness server by selecting the DAG name and viewing the information in details pane.

**Verifying the database and log folder paths**

**About this task**
Perform the following steps to ensure that all the databases and log files are stored in the desired location.

**Steps**
At the PowerShell prompt, enter the following command: `Get-MailboxDatabase | select name,edbfilepath,logfolderpath`

The following table is a sample of the expected result.
<table>
<thead>
<tr>
<th>Name</th>
<th>EdbFilePath</th>
<th>LogFolderPath</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB1</td>
<td>E:\Database\DB1\DB1.edb</td>
<td>E:\Log\Log1</td>
</tr>
<tr>
<td>DB2</td>
<td>E:\Database\DB2\DB2.edb</td>
<td>E:\Log\Log2</td>
</tr>
<tr>
<td>DB3</td>
<td>E:\Database\DB3\DB3.edb</td>
<td>E:\Log\Log3</td>
</tr>
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<td>E:\Database\DB4\DB4.edb</td>
<td>E:\Log\Log4</td>
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<td>---------------</td>
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<td>I:\Log\Log30</td>
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Adding database copies in database availability group

About this task
To add database copies in database availability group run the following commands in Exchange Management Shell.

⚠️ **WARNING:** The Information Store Service needs to be restarted on all Exchange servers after adding new mailbox databases is completed.

Steps
1. Add-MailboxDatabaseCopy -Identity DB1 -MailboxServer BLRMBX2 -ActivationPreference 2
2. Add-MailboxDatabaseCopy -Identity DB1 -MailboxServer AUSMBX1 -ActivationPreference 3
3. Add-MailboxDatabaseCopy -Identity DB2 -MailboxServer BLRMBX3 -ActivationPreference 2
4. Add-MailboxDatabaseCopy -Identity DB2 -MailboxServer AUSMBX2 -ActivationPreference 3
5. Add-MailboxDatabaseCopy -Identity DB3 -MailboxServer BLRMBX4 -ActivationPreference 2
6. Add-MailboxDatabaseCopy -Identity DB3 -MailboxServer AUSMBX3 -ActivationPreference 3
7. Add-MailboxDatabaseCopy -Identity DB4 -MailboxServer BLRMBX5 -ActivationPreference 2
8. Add-MailboxDatabaseCopy -Identity DB4 -MailboxServer AUSMBX1 -ActivationPreference 3
9. Add-MailboxDatabaseCopy -Identity DB5 -MailboxServer BLRMBX6 -ActivationPreference 2
10. Add-MailboxDatabaseCopy -Identity DB5 -MailboxServer AUSMBX2 -ActivationPreference 3
11. Add-MailboxDatabaseCopy -Identity DB6 -MailboxServer BLRMBX1 -ActivationPreference 2
12. Add-MailboxDatabaseCopy -Identity DB6 -MailboxServer AUSMBX3 -ActivationPreference 3
13. Add-MailboxDatabaseCopy -Identity DB7 -MailboxServer BLRMBX3 -ActivationPreference 2
15. Add-MailboxDatabaseCopy -Identity DB8 -MailboxServer BLRMBX4 -ActivationPreference 2
16. Add-MailboxDatabaseCopy -Identity DB8 -MailboxServer AUSMBX3 -ActivationPreference 3
17. Add-MailboxDatabaseCopy -Identity DB9 -MailboxServer BLRMBX5 -ActivationPreference 2
19. Add-MailboxDatabaseCopy -Identity DB10 -MailboxServer BLRMBX6 -ActivationPreference 2
20. Add-MailboxDatabaseCopy -Identity DB10 -MailboxServer AUSMBX2 -ActivationPreference 3
22. Add-MailboxDatabaseCopy -Identity DB11 -MailboxServer AUSMBX2 -ActivationPreference 3
23. Add-MailboxDatabaseCopy -Identity DB12 -MailboxServer BLRMBX2 -ActivationPreference 2
25. Add-MailboxDatabaseCopy -Identity DB13 -MailboxServer BLRMBX4 -ActivationPreference 2
27. Add-MailboxDatabaseCopy -Identity DB14 -MailboxServer BLRMBX5 -ActivationPreference 2
32. Add-MailboxDatabaseCopy -Identity DB16 -MailboxServer AUSMBX1 -ActivationPreference 3
33. Add-MailboxDatabaseCopy -Identity DB17 -MailboxServer BLRMBX2 -ActivationPreference 2
34. Add-MailboxDatabaseCopy -Identity DB17 -MailboxServer AUSMBX2 -ActivationPreference 3
35. Add-MailboxDatabaseCopy -Identity DB18 -MailboxServer BLRMBX3 -ActivationPreference 2
37. Add-MailboxDatabaseCopy -Identity DB19 -MailboxServer BLRMBX5 -ActivationPreference 2
38. Add-MailboxDatabaseCopy -Identity DB19 -MailboxServer AUSMBX1 -ActivationPreference 3
40. Add-MailboxDatabaseCopy -Identity DB20 -MailboxServer AUSMBX2 -ActivationPreference 3
41. Add-MailboxDatabaseCopy -Identity DB21 -MailboxServer BLRMBX1 -ActivationPreference 2
42. Add-MailboxDatabaseCopy -Identity DB21 -MailboxServer AUSMBX3 -ActivationPreference 3
43. Add-MailboxDatabaseCopy -Identity DB22 -MailboxServer BLRMBX2 -ActivationPreference 2
44. Add-MailboxDatabaseCopy -Identity DB22 -MailboxServer AUSMBX1 -ActivationPreference 3
45. Add-MailboxDatabaseCopy -Identity DB23 -MailboxServer BLRMBX3 -ActivationPreference 2
46. Add-MailboxDatabaseCopy -Identity DB23 -MailboxServer AUSMBX2 -ActivationPreference 3
47. Add-MailboxDatabaseCopy -Identity DB24 -MailboxServer BLRMBX4 -ActivationPreference 2
48. Add-MailboxDatabaseCopy -Identity DB24 -MailboxServer AUSMBX3 -ActivationPreference 3
49. Add-MailboxDatabaseCopy -Identity DB25 -MailboxServer BLRMBX6 -ActivationPreference 2
50. Add-MailboxDatabaseCopy -Identity DB25 -MailboxServer AUSMBX1 -ActivationPreference 3
51. Add-MailboxDatabaseCopy -Identity DB26 -MailboxServer BLRMBX1 -ActivationPreference 2
52. Add-MailboxDatabaseCopy -Identity DB26 -MailboxServer AUSMBX2 -ActivationPreference 3
53. Add-MailboxDatabaseCopy -Identity DB27 -MailboxServer BLRMBX2 -ActivationPreference 2
54. Add-MailboxDatabaseCopy -Identity DB27 -MailboxServer AUSMBX3 -ActivationPreference 3
55. Add-MailboxDatabaseCopy -Identity DB28 -MailboxServer BLRMBX3 -ActivationPreference 2
56. Add-MailboxDatabaseCopy -Identity DB28 -MailboxServer AUSMBX1 -ActivationPreference 3
57. Add-MailboxDatabaseCopy -Identity DB29 -MailboxServer BLRMBX4 -ActivationPreference 2
58. Add-MailboxDatabaseCopy -Identity DB29 -MailboxServer AUSMBX2 -ActivationPreference 3
59. Add-MailboxDatabaseCopy -Identity DB30 -MailboxServer BLRMBX5 -ActivationPreference 2
60. Add-MailboxDatabaseCopy -Identity DB30 -MailboxServer AUSMBX3 -ActivationPreference 3
61. Add-MailboxDatabaseCopy -Identity DB31 -MailboxServer BLRMBX2 -ActivationPreference 2
62. Add-MailboxDatabaseCopy -Identity DB31 -MailboxServer AUSMBX1 -ActivationPreference 3
63. Add-MailboxDatabaseCopy -Identity DB32 -MailboxServer BLRMBX3 -ActivationPreference 2
64. Add-MailboxDatabaseCopy -Identity DB32 -MailboxServer AUSMBX2 -ActivationPreference 3
65. Add-MailboxDatabaseCopy -Identity DB33 -MailboxServer BLRMBX4 -ActivationPreference 2
66. Add-MailboxDatabaseCopy -Identity DB33 -MailboxServer AUSMBX3 -ActivationPreference 3
67. Add-MailboxDatabaseCopy -Identity DB34 -MailboxServer BLRMBX5 -ActivationPreference 2
68. Add-MailboxDatabaseCopy -Identity DB34 -MailboxServer AUSMBX1 -ActivationPreference 3
69. Add-MailboxDatabaseCopy -Identity DB35 -MailboxServer BLRMBX6 -ActivationPreference 2
70. Add-MailboxDatabaseCopy -Identity DB35 -MailboxServer AUSMBX2 -ActivationPreference 3
71. Add-MailboxDatabaseCopy -Identity DB36 -MailboxServer BLRMBX1 -ActivationPreference 2
72. Add-MailboxDatabaseCopy -Identity DB36 -MailboxServer AUSMBX3 -ActivationPreference 3
73. Add-MailboxDatabaseCopy -Identity DB37 -MailboxServer BLRMBX3 -ActivationPreference 2
74. Add-MailboxDatabaseCopy -Identity DB37 -MailboxServer AUSMBX1 -ActivationPreference 3
75. Add-MailboxDatabaseCopy -Identity DB38 -MailboxServer BLRMBX4 -ActivationPreference 2
76. Add-MailboxDatabaseCopy -Identity DB38 -MailboxServer AUSMBX2 -ActivationPreference 3
77. Add-MailboxDatabaseCopy -Identity DB39 -MailboxServer BLRMBX5 -ActivationPreference 2
78. Add-MailboxDatabaseCopy -Identity DB39 -MailboxServer AUSMBX3 -ActivationPreference 3
79. Add-MailboxDatabaseCopy -Identity DB40 -MailboxServer BLRMBX6 -ActivationPreference 2
80. Add-MailboxDatabaseCopy -Identity DB40 -MailboxServer AUSMBX1 -ActivationPreference 3
81. Add-MailboxDatabaseCopy -Identity DB41 -MailboxServer BLRMBX1 -ActivationPreference 2
82. Add-MailboxDatabaseCopy -Identity DB41 -MailboxServer AUSMBX2 -ActivationPreference 3
83. Add-MailboxDatabaseCopy -Identity DB42 -MailboxServer BLRMBX2 -ActivationPreference 2
84. Add-MailboxDatabaseCopy -Identity DB42 -MailboxServer AUSMBX3 -ActivationPreference 3
85. Add-MailboxDatabaseCopy -Identity DB43 -MailboxServer BLRMBX4 -ActivationPreference 2
86. Add-MailboxDatabaseCopy -Identity DB43 -MailboxServer AUSMBX1 -ActivationPreference 3
87. Add-MailboxDatabaseCopy -Identity DB44 -MailboxServer BLRMBX5 -ActivationPreference 2
88. Add-MailboxDatabaseCopy -Identity DB44 -MailboxServer AUSMBX2 -ActivationPreference 3
89. Add-MailboxDatabaseCopy -Identity DB45 -MailboxServer BLRMBX6 -ActivationPreference 2
90. Add-MailboxDatabaseCopy -Identity DB45 -MailboxServer AUSMBX3 -ActivationPreference 3
91. Add-MailboxDatabaseCopy -Identity DB46 -MailboxServer BLRMBX1 -ActivationPreference 2
92. Add-MailboxDatabaseCopy -Identity DB46 -MailboxServer AUSMBX1 -ActivationPreference 3
93. Add-MailboxDatabaseCopy -Identity DB47 -MailboxServer BLRMBX2 -ActivationPreference 2
94. Add-MailboxDatabaseCopy -Identity DB47 -MailboxServer AUSMBX2 -ActivationPreference 3
95. Add-MailboxDatabaseCopy -Identity DB48 -MailboxServer BLRMBX3 -ActivationPreference 2
96. Add-MailboxDatabaseCopy -Identity DB48 -MailboxServer AUSMBX3 -ActivationPreference 3
97. Add-MailboxDatabaseCopy -Identity DB49 -MailboxServer BLRMBX5 -ActivationPreference 2
98. Add-MailboxDatabaseCopy -Identity DB49 -MailboxServer AUSMBX1 -ActivationPreference 3
100. Add-MailboxDatabaseCopy -Identity DB50 -MailboxServer AUSMBX2 -ActivationPreference 3
102. Add-MailboxDatabaseCopy -Identity DB51 -MailboxServer AUSMBX3 -ActivationPreference 3
103. Add-MailboxDatabaseCopy -Identity DB52 -MailboxServer BLRMBX2 -ActivationPreference 2
104. Add-MailboxDatabaseCopy -Identity DB52 -MailboxServer AUSMBX1 -ActivationPreference 3
105. Add-MailboxDatabaseCopy -Identity DB53 -MailboxServer BLRMBX3 -ActivationPreference 2
106. Add-MailboxDatabaseCopy -Identity DB53 -MailboxServer AUSMBX2 -ActivationPreference 3
107. Add-MailboxDatabaseCopy -Identity DB54 -MailboxServer BLRMBX4 -ActivationPreference 2
108. Add-MailboxDatabaseCopy -Identity DB54 -MailboxServer AUSMBX3 -ActivationPreference 3
110. Add-MailboxDatabaseCopy -Identity DB55 -MailboxServer AUSMBX1 -ActivationPreference 3
111. Add-MailboxDatabaseCopy -Identity DB56 -MailboxServer BLRMBX1 -ActivationPreference 2
112. Add-MailboxDatabaseCopy -Identity DB56 -MailboxServer AUSMBX2 -ActivationPreference 3
113. Add-MailboxDatabaseCopy -Identity DB57 -MailboxServer BLRMBX2 -ActivationPreference 2
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115. Add-MailboxDatabaseCopy -Identity DB58 -MailboxServer BLRMBX3 -ActivationPreference 2
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118. Add-MailboxDatabaseCopy -Identity DB59 -MailboxServer AUSMBX2 -ActivationPreference 3
119. Add-MailboxDatabaseCopy -Identity DB60 -MailboxServer BLRMBX5 -ActivationPreference 2
120. Add-MailboxDatabaseCopy -Identity DB60 -MailboxServer AUSMBX3 -ActivationPreference 3
121. Add-MailboxDatabaseCopy -Identity DB61 -MailboxServer BLRMBX2 -ActivationPreference 2
This completes the configuration of Microsoft Exchange 2013.

Load Balancing Exchange

In a test environment, a KEMP Virtual LoadMaster (Vers:7.1-26-15) was used to load balance the Exchange infrastructure.

Prerequisites

**NOTE:** Customers can use their existing load balancing solution to load balance Exchange.

Steps

1. Log in to the KEMP admin console and go to Virtual Services → View/Modify Services → Add New.
2. Type the IP address for the service in the Virtual Address field. Enter the port, protocol, and service name and click Add this Virtual Service.
3. Ensure that Force L7 check box is selected, but the L7 Transparency check box is clear.
4. Since Exchange 2013 does not require persistence anymore, make sure that the Persistence Options is set to None.
5. For the load method/Scheduling method, select Round-Robin.

**NOTE:** Under Real Servers, configure the health checks. Make sure the KEMP LoadMaster set to use HTTPS protocol. This together with Checked Port: 443 and URL: “/owa”. Click the Set URL button to save the settings.
6. Click the Add New … button under Real Servers. Add your Exchange 2013 Client Access servers (or multi role client access/mailbox servers). When all servers are added, click the Back button.
7. When the configuration is complete, press the Back button. The services should then show up as green if the protocols are available.

- **NOTE:** Ensure that the virtual service IP address of the load balancer has a DNS entry made in the DNS server.

**Next steps**
This completes the configuration of the KEMP load balancer.
Verifying the deployment

To verify that Exchange 2013 is installed successfully, perform any of the following steps:

   A list of all Exchange 2013 server roles that are installed on the specified server is displayed.
2. Review the setup log file created during the setup process.
3. Access Outlook WebApp (OWA) by typing the URL in the browser, and send a few test mails.
4. Try activating passive copies of one or two DBs. If the activation is successful, the DAG functionality is as expected.
   a. In EAC, navigate to servers → databases.
      For example, if DB07 is active on MBX3, the status on the right pane shows that DB07 is Active Mounted.
   b. In order to activate a passive copy of DB07 on MBX1, click DB07, then click Activate under DB07\MBX1 (Passive Healthy).
   c. A warning page is displayed, reconfirming the request to activate DB07 on MBX3. Click yes.
   d. Once the activation process is complete click close.
      In the right pane, the status of DB07 is shown as Passive Resynchronizing or Passive Healthy.
Additional Resources

Dell Services and Dell certified channel partners provide consulting solutions to help customers plan, deploy and manage even the most advanced and complex Microsoft Exchange Server configurations.
Appendix

- PowerEdge R730xd Rack Server technical details
- Dell Storage MD1400
- Dell PowerEdge RAID Controller H730P
- Dell PowerEdge RAID Controller H830
- Microsoft Exchange 2013 on Dell PowerEdge R730xd and Dell Storage MD1400
- The Exchange Solution Reviewed Program (ESRP)
- PowerEdge R730xd and Dell Storage MD1400 12,500 Mailbox Resiliency Exchange 2013 Storage Solution
- Database Availability Groups