#### How To: Exchange 2016 Server – Initial Configuration

#### Rename and move default Databases

When Exchange is installed, it will create a new database on each server. We will keep these, but we want to rename them and move the location of the files.

1. On the Exchange 2016 server, open the Exchange Management Shell (run as Administrator).



2. Get a list of databases along with their path to the edb file and the logs using this command: Get-MailboxDatabase | fl name,edbfilepath,logfolderpath



3. You can see here we have two different databases (one from each server).



4. Now let's use the following command to rename the databases. You will run this command twice, but make sure to adjust the command for the second run. Command: Set-MailboxDatabase "Mailbox Database 1224996632" -

#### Name "EXDB01"



5. If we re-run the command "Get-MailboxDatabase | fl name,edbfilepath,logfolderpath" again we will see that the names of the databases have been changed.

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LogFolderPath	1224996632.edb : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1224996632			^
Name EdbFilePath	: Mailbox Database 1287356209 : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1287356209\Mailbox 1287356209.edb	x Data	abase	
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[PS] C:\Window	s\system32>			~

6. Now we will move the location of the database and the log folder using this command: Move-DatabasePath exdb01 -edbfilepath

# M:\DBs\EXDB01\EXDB01.edb -LogFolderPath L:\Logs\EXDB01

<pre>1224996632.edb LogFolderPath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1224996632 Name : Mailbox Database 1287356209 EdbFilePath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1287356209\Mailbox Database 1287356209.edb LogFolderPath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1287356209 [PS] C:\Windows\system32&gt;Set-MailboxDatabase "Mailbox Database 1224996632" -Name "EXDB01" [PS] C:\Windows\system32&gt;Set-MailboxDatabase "Mailbox Database 1287356209" -Name "EXDB01" [PS] C:\Windows\system32&gt; [PS] C:\Windows\system32&gt;Get-MailboxDatabase   fl name,edbfilepath,logfolderpath Name : EXDB01 [EdbFilePath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1224996632 [Name : EXDB02 [EdbFilePath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1287356209\Mailbox Database 1287356209\Mailbox Database 1287356209\Mailbox Database 1287356209\Mailbox Database LogFolderPath : E:\Program Files\Microsoft\Exchange Server\V15\Mailbox\Mailbox Database 1287356209\Mailbox Database 1287356209\Mailbox Database 1287356209</pre>	🛃 Machine: erlab	-e)	1.erlab.lan	_		×
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# 7. You will be asked to Confirm the change, press ENTER.

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Confirm Are you sure you want to perform this action? Moving database path "exdb01". [Y] Yos [A] Yos to A]] [N] No [L] No to A]] [2] Holp (default is "Y");			

8. You will be asked to Confirm again to temporarily dismount the database, press ENTER.



- 9. In order to move the second database, you will need to repeat steps 6 8 on your other Exchange server.
- 10.Once done, run "Get-MailboxDatabase | fl name,edbfilepath,logfolderpath" again to verify the information is updated.



#### Configure DAG

We will now configure our Database Availability Group (DAG) to replicate the databases across the Exchange servers. Before we go through the process we will need to prep a server to be a "Witness Server". In this lab I will be using one of my File Servers.

1. Login to your Witness Server, and add the "Exchange Trusted Subsystem" to the Local Administrators group.



2. Create a new Folder off the C:\ drive of your Witness Server, and share it.



#### 3. Now login to the Exchange Admin Center.

#### Eric D. Reid 👻 ? 👻 1 Enterprise Exchange admin center recipients mailboxes groups resources contacts shared migration permissions +-∥面ዖぽ… compliance management A MAILBOX TYPE EMAIL ADDRESS DISPLAY NAME organization E Liser edreid@erlah lan Eric D. Reid protection User mailbox edreid@erlab.lan mail flow Title: Office: mobile Work phone: public folders Phone and Voice Features unified messaging Unified Messaging: Disabled servers Enable Mobile Devices hybrid Disable Exchange ActiveSync Disable OWA for Devices View details In-Place Archive Archiving: Disabled Enable In-Place Hold User isn't under hold Email Connectivity Outlook on the web: Enabled Disable | View details 1 selected of 1 total

4. Click Servers, Database Availability Groups and the click the Plus button to create a new DAG.

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ecipients	servers databases database availability groups virtual directories certificates	
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5. Enter the name of the DAG, the FQDN of the witness server, and the directory on the witness server we created earlier. Click Save.

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Exchange admin ce	nter		
recipients	servers databases database availability gro	ups virtual directories certificates	
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		Save Cancel	
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6. Once the DAG is created, click the Manage DAG Membership icon.

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Exchange admin cen	nter	
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compliance management	+ ✔ m 🖥 💀 🦻	
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## 7. Click the Plus button.

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permissions	🔤 Manage Database Availability Group Membership - Google Chr — 🔲 🗙	
compliance management	+ ✓ ■ B, B, C	
organization	NAME withess server manage database availability group membership	
protection	DAG2016 erlab-ls1.arlab.lam Add or remove servers Witness Server Witness Server	
mail flow	Endpris Lengolan	
mobile		
public folders		
unified messaging		
servers		
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8. Select each server and click the Add button. Once all servers have been added, click the OK button.



#### 9. Click the Save button.

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Exchange admin c	enter			
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compliance management		manage database availability group membership		
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protection	DAG2016 erlab-fs1.erlab.lan	Add or remove servers	Witness Server	
mail flow		+ -	erlab-fs1.erlab.lan	
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10. The Windows Failover Clustering services will be configured on each Exchange server. This could take a few minutes.



#### 11.Once this process is complete, click Close.

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Exchange admin cen	ter		
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permissions		Manage Database Availability Group Membership - Google Chr —      X     Mot secure https://erlab-ex1.erlab.lan/ecp/DBMgmt/ManageDAGMem	
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protection	DAGEUTO en NOPIS I JEN NOLIJAT	Add or remove servers	
mail flow		MEME Saving completed successfully.	
mobile			
public folders		You've completed the operation.	
unified messaging		3	
servers			
hybrid		Close	
		Save Cancel	
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## 12. The new DAG is ready to be used.

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Exchange admin c	enter				
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mail flow				erlab-ex2 erlab-ex1	
mobile				Witness Server	
public folders				eriab-fs1.eriab.lan	
unified messaging				DAG Network MapiDagNetwork	
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## Add our existing databases to the DAG

## 1. Click on the Databases tab.

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Exchange admin o	enter								
recipients	servers databases database availability groups virtual directories certificates								
permissions									
compliance management	+ / 🖻 / 🗗								
organization	NAME	ACTIVE ON SERVER	SERVERS WITH COPIES	STATUS	BAD COPY COUNT				
protection	EXDB01 EXDB02	erlab-ex1 erlab-ex2	erlab-ex1 erlab-ex2	Mounted Mounted	0				
mail flow									
mobile									
public folders									
unified messaging									
servers									
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			0 selected of 2 total						

2. Select one of the databases, then click the More button (...), and click on "Add database copy".

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Exchange admin ce	enter						
recipients	servers data	bases database availability o	groups virtual directories	certificates			
permissions							
compliance management	+ 🖉 🖻 🔎 🕄						
organization	NAME	Add database copy	SERVERS WITH COPIES	STATUS	BAD COPY COUNT		
protection	EXDB01 EXDB02	erlab-ex2	erlab-ex1 erlab-ex2	Mounted Mounted	<b>0</b>	EXDB01	
mail flow						Database availability group: DAG2016	
mobile						Servers	
public folders						erlab-ex1	
unified messaging						Database copies	
servers						EXDB01\eriab-ex1 Active Mounted Concurse length: 0	
hybrid						Content index state: Healthy	
						The Transmission	
https://erlab-ex1.erlab.lan/ecp/DBMgr	mt/Databases.aspx?showhelp	=false#	1 selected of 2 total				

#### 3. Click the Browse button.

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Exchange admin c	enter	
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permissions	Add Mailbox Database Copy - Google Chrome — 🗆 X	
compliance management	+ ✓ ii P C …	
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mail flow	EXDB01 Use this field to select the "Specify Mailbox server: DAPA member on which you year to add the new	
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Enterprise Office 365			Eric D. Reid 👻 ? 👻
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## 4. Select the other Exchange server, and click OK.

## 5. Click the Save button.

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permissions	Add Malibac Datasse Copy - Google Chrome  Add Malibac Datasse Copy - Google Chrome  Add Not secure  Https://erlab-axi.erlab.lan/ecp/DBMgmt/AddDatabaseCopy.aspx?pwmcid=3&ReturnObjectType	
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6. The save operation can take several minutes to complete.

7. Once done, repeat the steps in this section for any other databases you have.

#### **Change Virtual Directories**

Since we have multiple Exchange servers we want to change the Internal and External URLs for the following Exchange virtual directories: ECP, EWS, MAPI, ActiveSync, OAB, OWA, and AutoDiscover (done via Exchange Management Shell).

We will be replacing the server name in the URLs with the following: mail.domain.com/... (make sure not to change anything other than the server name.

1. Click on Servers then Virtual Directories. Then edit each of the highlighted entries below. I'll show the first one as an example.

Enterprise Office 365				•		Eric D. Reid 👻 📍 👻
Exchange admin cer	nter					
recipients	servers databases database av	ailability groups virtual dire	ectories certificates			
permissions						
compliance management	Select server: All servers	۲				
	Select type: All	•	N			
organization	、人間の		6			
protection	NAME	SERVER TYPE	VERSION	LAST MODIFIED TIME		
mail flow	Autodiscover (Default Web Site)	erlab-ex1 Autodiscove	r Version 15.1 (Build 1531.3)	1/20/2019 9:54 PM	ana (Dafault Mah Sita)	
	Autodiscover (Default Web Site)	erlab-ex2 Autodiscove	r Version 15.1 (Build 1531.3)	1/21/2019 12:17 AM	ecp (Delault web site)	
mobile	ecp (Default Web Site)	erlab-ex1 ECP	Version 15.1 (Build 1531.3)	1/20/2019 9:54 PM	Website: Default Web Site	
public folders	ecp (Default Web Site)	erlab-ex2 ECP	Version 15.1 (Build 1531.3)	1/21/2019 12:16 AM	External URL:	
pooneroutero	EWS (Default Web Site)	erlab-ex1 EWS	Version 15.1 (Build 1531.3)	1/20/2019 9:54 PM		
unified messaging	EWS (Default Web Site)	erlab-ex2 EWS	Version 15.1 (Build 1531.3)	1/21/2019 12:16 AM		
	mapi (Default Web Site)	erlab-ex1 Mapi	Version 15.1 (Build 1531.3)	1/20/2019 9:56 PM		
servers	mapi (Default Web Site)	erlab-ex2 Mapi	Version 15.1 (Build 1531.3)	1/21/2019 12:18 AM		
	Microsoft-Server-ActiveSync (Default Web Site)	erlab-ex1 EAS	Version 15.1 (Build 1531.3)	1/20/2019 9:55 PM		
hybrid	Microsoft-Server-ActiveSync (Default Web Site)	erlab-ex2 EAS	Version 15.1 (Build 1531.3)	1/21/2019 12:17 AM		
	OAB (Default Web Site)	erlab-ex1 OAB	Version 15.1 (Build 1531.3)	1/20/2019 9:55 PM		
	OAB (Default Web Site)	erlab-ex2 OAB	Version 15.1 (Build 1531.3)	1/21/2019 12:18 AM		
	owa (Default Web Site)	erlab-ex1 OWA	Version 15.1 (Build 1531.3)	1/20/2019 9:54 PM		
	owa (Default Web Site)	erlab-ex2 OWA	Version 15.1 (Build 1531.3)	1/21/2019 12:16 AM		
	PowerShell (Default Web Site)	erlab-ex1 PowerShell	Version 15.1 (Build 1531.3)	1/20/2019 9:56 PM		
	PowerShell (Default Web Site)	erlab-ex2 PowerShell	Version 15.1 (Build 1531.3)	1/21/2019 12:18 AM		
		1 selected of 16	total			

2. In the picture below we want to remove the part of the URL that is underlined.

	A Not secure https://erlab	ex1.erlab.lan/ecp/VDirMgmt/EditECPVDir.aspx?pv	vmcid=21&ReturnObjectTyp	1
Select server: All servers	ecn (Default Web Site)			
✓ ◆ 限 Ø	• neneral			
NAME	authentication	Server: erlab-ex1		
Autodiscover (Default Web Site)		Server version:	-	t Web Site)
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ecp (Default Web Site) EWS (Default Web Site)		Default Web Site Last modified time:		
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Ponersinea (ocusin neo site)			Save Cancel	
				_
	NAME Autodiscover (Default Web Site) Autodiscover (Default Web Site) Carg (Default Web Site) EVS (Default Web Site) EVS (Default Web Site) EVS (Default Web Site) Microsoft-Server-ActiveSync (Default Web Site) Microsoft-Server-ActiveSync (Default Web Site) OAB (Default Web Site) Oam (Default Web Site) Oam (Default Web Site) Oam (Default Web Site) Oam (Default Web Site) OAB (Default Web Site)	NAME     autodiscover (Default Web Site)       Autodiscover (Default Web Site)     authentication       autodiscover (Default Web Site)     exp (Default Web Site)       Core (Default Web Site)     exp (Default Web Site)       Microardt-Server-ActiveSync (Default Web Site)     mapi (Default Web Site)       Microardt-Server-ActiveSync (Default Web Site)     OAB (Default Web Site)       OAB (Default Web Site)     orac (Default Web Site)       OAB (Default Web Site)     orac (Default Web Site)       OAB (Default Web Site)     orac (Default Web Site)       Orac (Default Web Site)     orac       PowerShell (Default Web Site)     orac       PowerShell (Default Web Site)     orac	NAME     authorization       Autodiscover (Default Web Site)     authorization       Server:     index end       Autodiscover (Default Web Site)     sever version:       Server version:     Verbalt       Server version:     Verbalt       Server version:     Server version:       Server version:     Verbalt       Server version:     Verbalt       Server version:     Server version:       Server version:     Verbalt       Server version:     Verbalt       Server version:     Server version:       Version:     Pedaut Web Site)       Microsoft-Server-ActiveSync (Default Web Site)     Nona (Default Web Site)       OAB (Default Web Site)     Server:       OAB (Default Web Site)     Server       PowerShell (Default Web Site)     Server       PowerShell (Default Web Site)     Server       PowerShell (Default Web Site)     Server       Server:     Server:	NAME     autodiscorer (Default Web Site)       Autodiscorer (Default Web Site)     authentication       Seg (Default Web Site)     Server:       Seg (Default Web Site)     Server:       Default Web Site)     Server:       Microardi-Server-Auto-Sync (Default Web Site)     Server:       OAB (Default Web Site)     Server:       PowerShell (Default Web Site)     Server:

3. Enter the same URL for the Internal and External URLs. Then click Save.



4. Once those are done, open Exchange Management Shell and enter the following command and review the output: Get-ClientAccessService | fl autodiscoverserviceinternaluri



5. Next, use the following command to set the URL for both servers. Command: Set-ClientAccessService -Identity *servername* -AutoDiscoverServiceInternalUri https://fqdn-you-use/Autodiscover/Autodiscover.xml



6. Once you have done that for all your services, run "Get-ClientAccessService | fl autodiscoverserviceinternaluri" again and verify the changes.



#### **DNS Round Robin**

Normally, you put your CAS servers behind a load balancer, but for my lab I'm just going to use DNS to Round Robin between the servers. I may come back later and add some kind of load balancer. In order to do the round robin with DNS, you just need to open DNS and add the same "A record" for each server. Just change the IP Address on each record.

A DNS	Name	Туре	Data	Timestamp		
V ERLAB-DC1	(same as parent folder)	Start of Authority (SOA)	[4], erlab-dc1.erlab.lan., h	static		
Forward Lookup Zones	(same as parent folder)	Name Server (NS)	erlab-dc2.erlab.lan.	static		
enab.com		Name Canves (NC)	and also also also have			
> 🛐 erlab.lan	mail	Host (A)	10 10 20 31	static		
> Provide Service S		Hose (A)	10.10.20.01	static		
> 📋 Trust Points	mail	Host (A)	10.10.30.32	static		
> 🧮 Conditional Forwarders	1 Iusi	Host (A)	192.108.10.11	static		