3/29/2021

Hands On Exercise

Chapter 6

Domain Controller and Active Directory Management

(Part1)

El Adel, Taoufik IT 416 - SPRING 2021 - OLD DOMINION UNIVERSITY Table 6-1 Activity requirements

Activity	Requirements	Notes
Activity 6-1: Resetting Your Virtual Environment	ServerDC1, ServerDM1, ServerSA1	
Activity 6-2: Installing an RODC with Staging	ServerDC1, ServerSA1	
Activity 6-3: Configuring the Password Replication Policy	ServerDC1, ServerSA1	
Activity 6-4: Creating a Subnet in Active Directory Sites and Services	ServerDC1	
Activity 6-5: Viewing Site Properties	ServerDC1	
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Activity 6-7: Transferring FSMO Roles	ServerDC1, ServerSA1	
Activity 6-8: Creating a System State Backup	ServerDC1, ServerSA1	
Activity 6-9: Restoring Active Directory from a System State Backup	ServerDC1, ServerSA1	
Activity 6-10: Restoring Deleted Objects from the Active Directory Recycle Bin	ServerDC1, ServerSA1	
Activity 6-11: Compacting the Active Directory Database	ServerDC1, ServerSA1	

Activity 6-1: Resetting Your Virtual Environment

Time Required: 5 minutes

Objective: Reset your virtual environment by applying the InitialConfig checkpoint or snapshot. **Required Tools and Equipment:** ServerDC1, ServerDM1, ServerSA1

Description: Apply the InitialConfig checkpoint or snapshot to ServerDC1, ServerDM1, and ServerSA1.

- 1. Be sure all servers are shut down. In your virtualization program, apply the InitialConfig checkpoint or snapshot to ServerDC1, ServerDM1, and ServerSA1.
- 2. When the snapshot or checkpoint has finished being applied, continue to the next activity.

Û	ServerD	C1: Sna	pshots	
	VMware Fusion v 'InitialConfig' sna			
	This will discard all o since the 'InitialConf changes by taking a	fig' snap	shot. Do you wa	nt to save your
	Don't Save		Cancel	Save

ServerDM1: Snapshots
VMware Fusion will now restore the 'InitialConfig' snapshot.
This will discard all changes made to the virtual machine since the 'InitialConfig' snapshot. Do you want to save your changes by taking a new snapshot before restoring?
Don't Save Cancel Save
ServerSA1: Snapshots
VMware Fusion will now restore the 'InitialConfig' snapshot.

Activity 6-2: Installing an RODC with Staging

Time Required: 20 minutes

Objective: Install a RODC with staging.

Required Tools and Equipment: ServerDC1, ServerSA1

Description: In this activity, you use RODC staging using PowerShell, so first you create a group and an account you delegate administration to. ServerSA1 will be the RODC.

- 1. Start ServerDC1 and ServerSA1, and sign in to both as Administrator.
- On ServerDC1, open Active Directory Users and Computers. Create a new OU under the domain node named BranchOffice. In the BranchOffice OU, create a global group named BranchOff-G and a user named BranchUser1 with Password01. Make sure to set the password to never expire. Make BranchUser1 a member of the BranchOff-G group.
- Right-click the Domain Controllers OU. Notice the option to "Pre-create" an RODC account. You can use this
 wizard to stage the RODC account, but you're using PowerShell.
- 4. On ServerDC1, open a PowerShell window. Type Add-ADDSReadOnlyDomainControllerAccount -DomainControllerAccountName ServerSA1 -DomainName mcsa2016.local -SiteName Default-First-Site-Name -DelegatedAdministratorAccountName BranchOff-G and press Enter. You might see a warning message about default security settings, which you can ignore. The last part of the output should say "Operation completed successfully."
- In Active Directory Users and Computers, make sure the Domain Controllers OU is selected and click the Refresh button. You should see ServerSA1 in the middle pane with the DC Type showing Unoccupied DC Account (see Figure 6-7).
- On ServerSA1, open a PowerShell prompt. First you need to install the Active Directory server role. Type Install-WindowsFeature AD-Domain-Services -IncludeManagementTools and press Enter. This installation takes some time.
- At the PowerShell prompt, type Install-ADDSDomainController -DomainName mcsa2016.local -UseExistingAccount -credential (get-credential) and press Enter.

Active Directory Users and Com		уре	DC Type	Site
Saved Queries	SERVERDC1	Computer	GC	Default-First-Si
> iii Builtin	SERVERSA1	Computer	Unoccupied DC Account (Resd-only, GC)	Default-First-Si
Computers				
> ForeignSecurityPrincipal:				
> 🧮 Managed Service Accour				
> 🧾 Users				
BranchOffice				

Figure 6-7 The staged RODC account in Active Directory Users and Computers

- In the credentials dialog box, type mcsa2016\BranchUser1 in the User name text box and Password01 in the Password text box, and then click OK.
- When you're prompted for the SafeModeAdministratorPassword (which is the DSRM password), type Password01, press Enter, type it again, and press Enter.
- 10. When you're prompted to continue with the operation, press Enter.
- 11. The installation takes a while. When it's finished, you see a message stating that you'll be signed out. Click **Close** or just wait for Windows to restart.
- 12. While ServerSA1 is restarting, refresh the screen in Active Directory Users and Computers on ServerDC1 to see that ServerSA1 is now listed as a read-only, global catalog domain controller.
- 13. Continue to the next activity.

Active Directory Users and Computers

File Action View Help			
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 Active Directory Users and Com Saved Queries MCSA2016.local Builtin Computers Domain Controllers ForeignSecurityPrincipal: Managed Service Accour Users BranchOffice 	Branch User1	Type User Security Group	Description

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For more information about this .microsoft.com/fwlink/?LinkId=1		(nowledge Base article 942564 (http://go
	gorithms compat	rs have a default for the security setti tible with Windows NT 4.0" that prevents ning security channel sessions.
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Active Directory Users and Computers

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Active Directory Users and Com Saved Queries	Name	Туре	DC Type	Site
	ERVERDC1	Computer	GC	Default-First-Site
 MCSA2016.local Builtin 	RUSERVERSA1	Computer	Unoccupied DC Accou	Default-First-Site
> 📔 Computers				
Domain Controllers				
> 📔 ForeignSecurityPrincipal:				
> 📔 Managed Service Accour				
📔 Users				
BranchOffice				

🔀 Administrator: Windows PowerShell

Domain Controllers
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 Managed Service Accourt

Users BranchOffice

Windows PowerShell Copyright (C) 2016		poration. All	rights rese	erved.			
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Success Restart Ne	eded Exit Code	Feature	Result				
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PS C:\Users\Admini credential) cmdlet Get-Credent Supply values for Credential SafeModeAdministra Confirm SafeModeAd The target server Do you want to con [Y] Yes [A] Yes t	ial at command the following p torPassword: ** ministratorPass will be configu tinue with this	pipeline posi parameters: sword: ******* ured as a doma s operation?	ition 1	ler and restarte	ed when this	operation is co	unt -credential (get- mplete.
 Active Directory U Saved Queries MCSA2016.loc Builtin Computer 	al D	Name SERVERDC1 SERVERSA1		DC Type GC Read-only, GC		ault-First-Site ault-First-Site	

Activity 6-3: Configuring the Password Replication Policy

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Time Required: 15 minutes

Objective: Add a group to the PRP of the ServerSA1 computer account. Required Tools and Equipment: ServerDC1, ServerSA1

Description: In this activity, you create a group and add it to the Allowed RODC Password Replication group.

- On ServerDC1, open Active Directory Users and Computers, click **Domain Controllers** in the left pane, and in the middle pane, double-click **ServerSA1** to open its Properties dialog box. Click the **Password Replication Policy** tab.
- Click the Advanced button. The Advanced Password Replication Policy for ServerSA1 dialog box shows you
 which account passwords are stored on the RODC. By default, the RODC computer account is replicated as is
 a special account used by the Kerberos authentication process. Click Close and then Cancel.
- Open a PowerShell prompt. Add the BranchOff-G group to the Allowed RODC Password Replication Group by typing Add-ADGroupMember "Allowed RODC Password Replication Group" BranchOff-G and pressing Enter.
- 4. Sign in to ServerSA1 as BranchUser1.
- 5. On ServerDC1, open the Properties dialog box for the ServerSA1 account again, and click the Password Replication Policy tab. Click Advanced to see that BranchUser1 is now among the accounts whose passwords are stored on the RODC. Click Close and then Cancel.
- 6. Sign out of ServerSA1. Continue to the next activity.

vanced Password R	eplication Policy for SERVERSA	41		
olicy Usage Resulta	nt Policy			
Display users and com	puters that meet the following crit	teria:		
Accounts whose pas	swords are stored on this Read-or	nly Domain Co	ontroller 🗸 🗸	
Jsers and computers:	Obj	ects retrieved	: 2	
Name	Domain Services Folder	Туре	Password Last Changed	Password Ex
👗 krbtgt_11339	MCSA2016.local/Users	User	3/31/2021 2:13:41 PM	5/12/2021 2
	MCSA2016 local/Dom	Computer	3/31/2021 2:22:29 PM	Never Expire

PS C:\Users\Administrator> Add-ADGroupMember "Allowed RODC Password Replication Group" BranchOff-G PS C:\Users\Administrator>

Advanced Password Replication Policy for SERVERSA1

Х

P	olicy Usage	Resultant Pol	icy			
	Display users	and computer	s that meet the following crit	eria:		
	Accounts wh	hose password	ls are stored on this Read-or	nly Domain Co	ntroller 🗸 🗸	
	Users and co	mputers:	Obj	ects retrieved:	3	
	Name		Domain Services Folder	Туре	Password Last Changed	Password Ex
	💄 Branch	User1	MCSA2016.local/Bran	User	3/31/2021 2:04:27 PM	Never Expire
	🙎 krbtgt_1	1339	MCSA2016.local/Users	User	3/31/2021 2:13:41 PM	5/12/2021 2
	👰 SERVEI	RSA1	MCSA2016.local/Dom	Computer	3/31/2021 2:22:29 PM	Never Expire

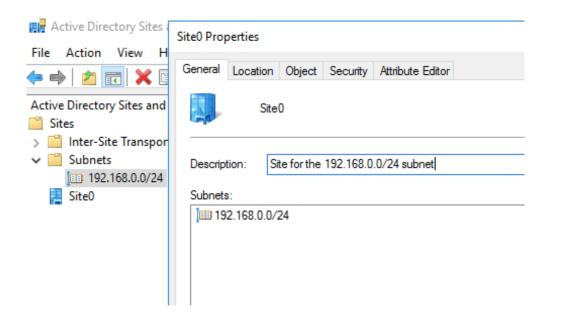
Activity 6-4: Creating a Subnet in Active Directory Sites and Services

Time Required: 5 minutes

Objective: Create a subnet in Active Directory Sites and Services and associate it with a site. Required Tools and Equipment: ServerDC1

Description: In this activity, you configure the default site to use the subnet already in use in your network. In addition, you rename the default site.

- 1. On ServerDC1, in Server Manager, click Tools, Active Directory Sites and Services from the menu.
- 2. Double-click to expand Sites, if necessary. Right-click Subnets, point to New, and click Subnet.
- In the Prefix text box, type 192.168.0.0/24 (assuming that you're following the IP address scheme used in this book; otherwise, ask your instructor what to enter).
- 4. In the Select a site object for this prefix list box, click Default-First-Site-Name, and then click OK.
- In the left pane, click Subnets. Right-click 192.168.0.0/24 and click Properties. In the General tab, you can give the subnet a description and change the site with which the subnet is associated. For now, leave it as is. Click Cancel.
- In the left pane, right-click Default-First-Site-Name and click Rename. Type Site0 and press Enter. You're using the third octet of the IP address as part of the site name.
- In the left pane, right-click Site0 and click Properties. In the Description text box, type Site for the 192.168.0.0/24 subnet, and then click OK.
- 8. Continue to the next activity.



Activity 6-5: Viewing Sites Properties

Time Required: 10 minutes

Objective: View site properties.

Required Tools and Equipment: ServerDC1

Description: In this activity, you explore the properties of NTDS site settings, server NTDS settings, and connection objects.

- 1. On ServerDC1, open Active Directory Sites and Services, if necessary. Click to expand Sites, Site0, Servers, and ServerDC1. Under ServerDC1 in the left pane, right-click NTDS Settings and click Properties.
- In the General tab, you can select or clear the Global Catalog option to configure whether the server is a global catalog server. Click the **Connections** tab. You see ServerSA1 in the Replicate To list box (see Figure 6-13). Click **Cancel**.

General Connections	Object Security Attribute Editor	-
General Connections	Object Security Attribute Editor	я
Replicate From:		
Name	Site	
Replicate To:	Ste	
SERVERSA1	Site0	

 In the left pane, click Site0. In the right pane, right-click NTDS Site Settings and click Properties to open the dialog box shown in Figure 6-14. There are NTDS settings associated with server objects and NTDS site settings associated with site objects.

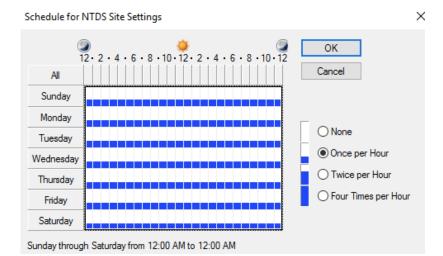
TDS Site Setti	ings Properties		?	\times
ite Settings	Object Security	Attribute Editor		
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Figure 6-14 The NTDS Site Settings Properties dialog box

- Click the Change Schedule button to open the Schedule for NTDS Site Settings dialog box. As you can see, the regular schedule for intersite replication is once per hour. Click Cancel.
- 5. Notice the Enable Universal Group Membership Caching check box, which is where you enable this feature if the DC isn't a global catalog server. Because it is, enabling this feature has no effect. In the *Refresh cache from* list box, you can select a site for refreshing the cache. Click **Cancel**.
- 6. Close Active Directory Sites and Services, and continue to the next activity.

File Active Directory Sites File Action View H Image: State Stat	NTDS Set	ttings Properti Connections	Security	Attribute Editor
Active Directory Sites and Sites Subnets Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Site0 Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites Sites	Replica Name	te From:	Site	
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> SERVERSA1	Inter-Site Top	ology Generator			
	Server:	SERVERDC1			
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	Site:	Site0			
	Universal Grou	up Membership Cac	hing		
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Activity 6-6: Changing a RODC to a standard DC

Time Required: 20 minutes

Objective: Change an RODC to a standard writeable DC.

Required Tools and Equipment: ServerDC1, ServerSA1

Description: You want to transfer some FSMO roles from ServerDC1 to ServerSA1, but first you must change ServerSA1 from an RODC to a standard DC. You use PowerShell for this task.

- Sign in to ServerSA1 as Administrator. On ServerSA1, open a PowerShell prompt. First, uninstall DNS because it's also read only. Type Remove-WindowsFeature DNS -Restart and press Enter. DNS is removed, and the server restarts.
- Next, uninstall the domain controller function. This command doesn't remove the role; it just demotes ServerSA1 to being a member server. From a PowerShell window, type Uninstall-ADDSDomainController and press Enter.
- When you're prompted for the local administrator password (which you need to sign in to the server when it's no longer a DC), type Password01, press Enter, type Password01 to confirm, and press Enter.
- A message states that the server restarts automatically. When you're prompted to continue, press Enter. When the operation is finished, ServerSA1 restarts.
- Sign in to ServerSA1 as Administrator. When you installed Active Directory and DNS, the DNS server address in the IP address configuration was set to 127.0.0.1 because this server was a DNS server. You need to set it back to the address of ServerDC1. Open a PowerShell window and type Set-DnsClientServerAddress -InterfaceAlias Ethernet -ServerAddresses 192.168.0.1 and press Enter.
- Sign in to ServerSA1 as mcsa2016\Administrator, and open a PowerShell prompt. Type Install-ADDSDomainController -DomainName mcsa2016.local -credential (get-credential) and press Enter. When you're prompted for credentials, type mcsa2016\administrator and Password01.
- 7. When you're prompted for the safe mode administrator password, type Password01, press Enter, type Password01 to confirm, and press Enter. Press Enter to confirm. The rest of the settings are the defaults for new DCs, which include installing DNS and configuring the paths to C:\Windows. The site is chosen based on the server's IP address, or if no subnets are defined, the default site is used.
- You see warning messages about default security settings, dynamic IP addresses, and DNS delegation, which
 you can ignore. When the configuration is finished, the server restarts. Continue to the next activity.

Windows PowerShell Copyright (C) 2016 Microsoft Corporation. All rights reserved. PS C:\Users\administrator.MCSA2016> Remove-WindowsFeature DNS -Restart Success Restart Needed Exit Code Feature Result ------True Yes SuccessRest... {DNS Server} WARNING: You must restart this server to finish the removal process.

PS C:\Users\administrator.MCSA2016> Uninstall-ADDSDomainController

	OK

Activity 6-7: Transferring FSMO Roles

Time Required: 15 minutes

Objective: Transfer the schema master and infrastructure master roles. Required Tools and Equipment: ServerDC1, ServerSA1

Description: In this activity, you transfer the schema master and infrastructure master roles to ServerSA1 using PowerShell.

- On ServerDC1, open a PowerShell prompt. Type Get-ADForest and press Enter. Find the output lines listing DomainNamingMaster and SchemaMaster. Both indicate that ServerDC1 is the FSMO role holder for the two forest-wide roles.
- 2. Type **Get-ADDomain** and press **Enter**. Find the FSMO roles and verify that ServerDC1 is shown as the FSMO role holder for all three domain-wide roles.
- 3. To see what roles, if any, a server holds, type **Get-ADDomainController** and press **Enter**. Look for the output line OperationMasterRoles, which lists the roles held by the current DC.
- Now move the schema master role to ServerSA1 by typing Move-ADDirectoryServerOperationMasterRole
 -Identity ServerSA1 -OperationMasterRole 3 and pressing Enter. The number 3 is the role number for the
 schema master.
- 5. When prompted to confirm, press Enter. When the operation is finished (no confirmation message, but the PowerShell prompt returns), type Get-ADForest and press Enter. Verify that the schema master role is now held by ServerSA1. Another way to confirm is to type Get-ADDomainController -Server ServerSA1 and press Enter. It might take a while to display the results.
- 6. Next, transfer the infrastructure master role by typing Move-ADDirectoryServerOperationMasterRole -Identity ServerSA1 -OperationMasterRole 2 and pressing Enter.
- Press Enter to confirm. To view the domainwide FSMO role holders in an easier-to-read format, type Get-ADDomain | Format-Table PDCEmulator, RIDMaster, InfrastructureMaster and press Enter. This command displays information about only these three items.
- You'll need the schema master back on ServerDC1 to enable the Active Directory Recycle Bin in a future activity, so transfer it back by typing Move-ADDirectoryServerOperationMasterRole -Identity ServerDC1 -OperationMasterRole 3 and pressing Enter. Press Enter to confirm.
- 9. Continue to the next activity.

PS C:\Users\Administrator> Get-ADDomainController

ComputerObjectDN	: CN=SERVERDC1,OU=Domain Controllers,DC=MC5A2016,DC=local
DefaultPartition	: DC=MCSA2016,DC=local
Domain	: MC5A2016.local
Enabled	: True
Forest	: MC5A2016.local
HostName	: ServerDC1.MC5A2016.local
InvocationId	: aa6fd034-6f94-4520-83ea-474f04f1413c
IPv4Address	: 192.168.1.1
IPv6Address	: ::1
IsGlobalCatalog	: True
IsReadOnly	: False
LdapPort	: 389
Name	: SERVERDC1
NTDSSettingsObjectDN	: CN=NTDS Settings, CN=SERVERDC1, CN=Servers, CN=Site0, CN=Sites, CN=Configuration, DC=M
	CSA2016,DC=local
OperatingSystem	: Windows Server 2016 Datacenter Evaluation
OperatingSystemHotfix	:
OperatingSystemServicePag	:k :
OperatingSystemVersion	: 10.0 (14393)
OperationMasterRoles	: {SchemaMaster, DomainNamingMaster, PDCEmulator, RIDMaster}
Partitions	: {DC=ForestDnsZones,DC=MC5A2016,DC=local,
	DC=DomainDnsZones.DC=MC5A2016.DC=local.
	CN=Schema,CN=Configuration,DC=MCSA2016,DC=local,
	CN=Configuration,DC=MC5A2016,DC=local}
ServerObjectDN	: CN=SERVERDC1,CN=Servers,CN=Site0,CN=Sites,CN=Configuration,DC=MCSA2016,DC=local
ServerObjectGuid	: 3b518303-e8c5-4766-842f-78f5b726c932
Site	: Site0
SslPort	: 636 T
	🚰 Move Operation Master Role — 🗆 🗙
ServerObjectDN :	MOVE Operation Master Note
ServerObjectON : ServerObjectGuid :	Do you want to move role 'SchemaMaster' to server 'ServerSA1.MCSA2016.local' ?
Site :	
SslPort :	

No to All Suspend

PS C:\Users\Administrator> Move-ADDirectoryServerOperationMasterRole -Identity ServerSA1 -OperationMasterRole 3

Yes to <u>A</u>ll <u>N</u>o

<u>Y</u>es

PS C:\Users\Administrator> Get-ADForest ApplicationPartitions : {DC=DomainDnsZones,DC=MCSA2016,DC=local, DC=ForestDnsZones,DC=MCSA2016,DC=local} CrossForestReferences : {} DomainNamingMaster : ServerDC1.MCSA2016.local Domains : {MCSA2016.local} ForestMode : Windows2016Forest GlobalCatalogs : {ServerDC1.MCSA2016.local, ServerSA1.MCSA2016.local} Name : MCSA2016.local PartitionsContainer : CN=Partitions,CN=Configuration,DC=MCSA2016,DC=local RootDomain : MCSA2016.local SchemaMaster : ServerSA1.MCSA2016.local Sites : {Site0} SPNSuffixes : {}