Lab 3

Deploying Domain Controllers

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NETWORK INSTALLATION AND ADMINISTRATION II

Contents

Step 1: Configure DC112 (Primary Domain Controller)

Verifications:

Configure this server as the first Active Directory domain controller in a new forest.

The new domain name is "vlabs12.com". This is also the name of the new forest.

The NetBIOS name of the domain: VLABS12

Forest Functional Level: Windows Server 2016

Domain Functional Level: Windows Server 2016

Additional Options:

Global catalog: Yes

DNS Server: Yes

Create DNS Delegation: No

Database folder: C:\Windows\NTDS

Log file folder: C:\Windows\NTDS

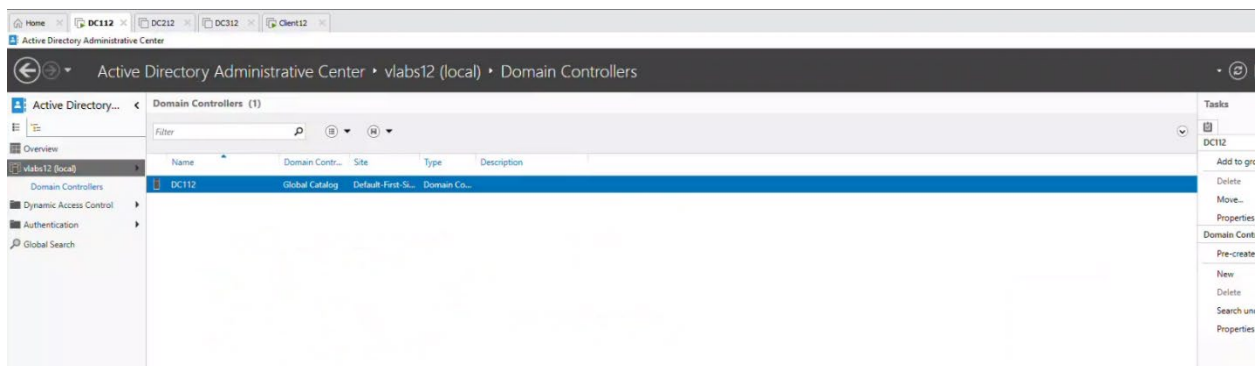SYSVOL folder: C:\Windows\SYSVOL

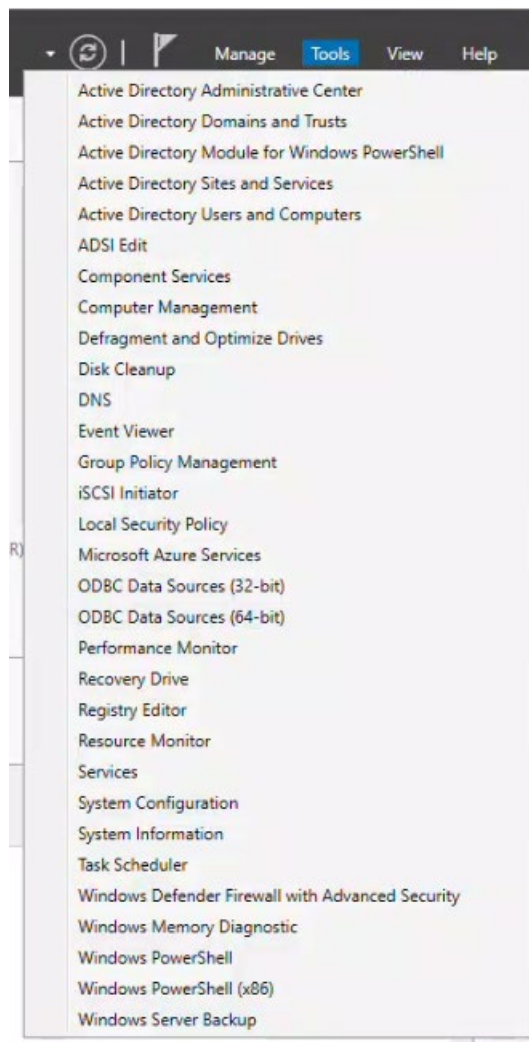The DNS Server service will be configured on this computer.

This computer will be configured to use this DNS server as its preferred DNS server.

The password of the new domain Administrator will be the same as the password of the local Administrator of this computer.

```
#
# Windows PowerShell script for AD DS Deployment
#

Import-Module ADDSDeployment
Install-ADDSForest `
-CreateDnsDelegation:$false `
-DatabasePath "C:\Windows\NTDS" `
-DomainMode "WinThreshold" `
-DomainName "vlabs12.com" `
-DomainNetbiosName "VLABS12" `
-ForestMode "WinThreshold" `
-InstallDns:$true `
-LogPath "C:\Windows\NTDS" `
-NoRebootOnCompletion:$false `
-SysvolPath "C:\Windows\SYSVOL" `
-Force:$true
```

VLABS12\Administrator

Password

Manage   Tools   View   Help

Active Directory Administrative Center
Active Directory Domains and Trusts
Active Directory Module for Windows PowerShell
Active Directory Sites and Services
Active Directory Users and Computers
ADSI Edit
Component Services
Computer Management
Defragment and Optimize Drives
Disk Cleanup
DNS
Event Viewer
Group Policy Management
iSCSI Initiator
Local Security Policy
Microsoft Azure Services
ODBC Data Sources (32-bit)
ODBC Data Sources (64-bit)
Performance Monitor
Recovery Drive
Registry Editor
Resource Monitor
Services
System Configuration
System Information
Task Scheduler
Windows Defender Firewall with Advanced Security
Windows Memory Diagnostic
Windows PowerShell
Windows PowerShell (x86)
Windows Server Backup

```
PS C:\Users\Administrator> Get-WindowsFeature AD-Domain-Services

Display Name                                    Name                        Install State
------------                                    ----                        -------------
[X] Active Directory Domain Services            AD-Domain-Services             Installed


PS C:\Users\Administrator>
```

```
C:\Users\lmohammed>ping dc112.vlabs12.com

Pinging dc112.vlabs12.com [192.168.12.1] with 32 bytes of data:
Reply from 192.168.12.1: bytes=32 time<1ms TTL=128
Reply from 192.168.12.1: bytes=32 time<1ms TTL=128
Reply from 192.168.12.1: bytes=32 time<1ms TTL=128
Reply from 192.168.12.1: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.12.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```
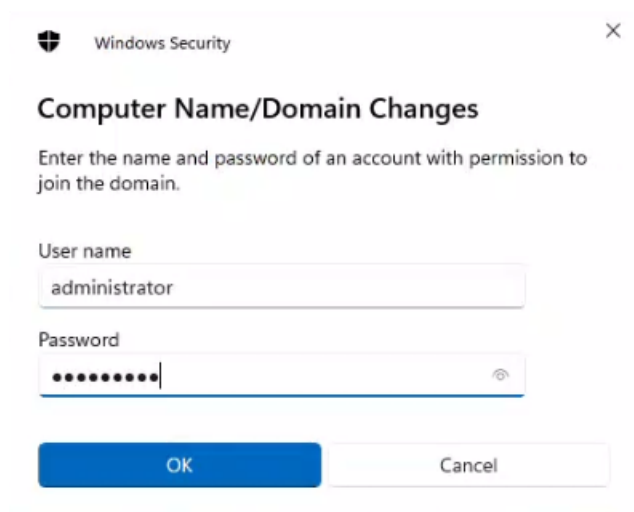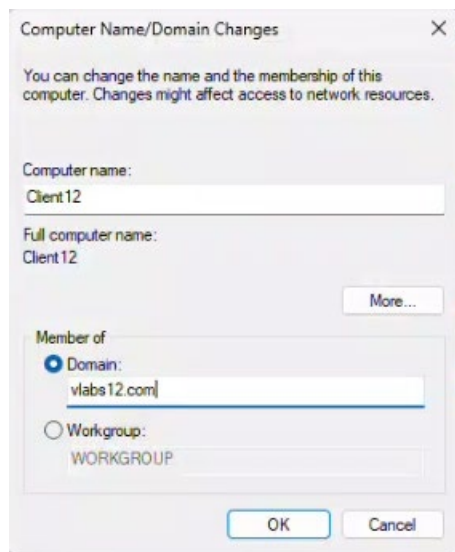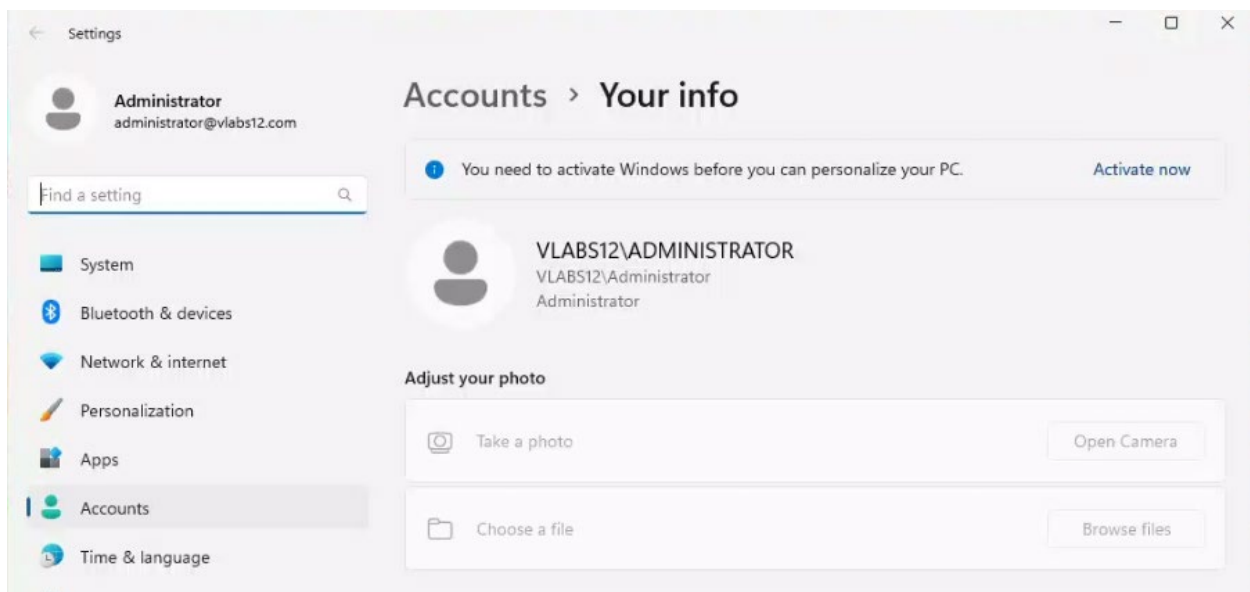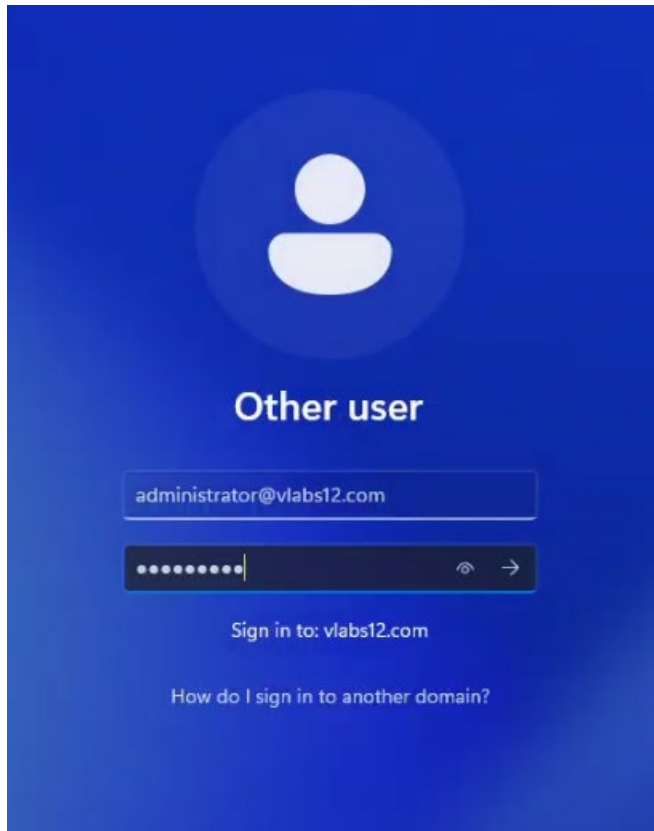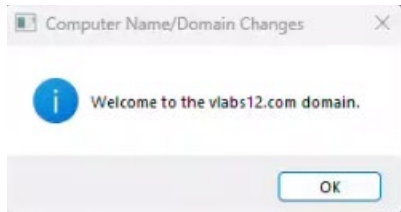
Step 2: Join ClientX to the Domain

Verifications

Computer Name/Domain Changes ✕

ⓘ Welcome to the vlabs12.com domain.

OK

Other user

administrator@vlabs12.com

•••••••••

Sign in to: vlabs12.com

How do I sign in to another domain?

← Settings — ☐ ✕

Administrator
administrator@vlabs12.com

Find a setting

System

Bluetooth & devices

Network & internet

Personalization

Apps

Accounts

Time & language

Accounts › Your info

ⓘ You need to activate Windows before you can personalize your PC.   Activate now

VLABS12\ADMINISTRATOR
VLABS12\Administrator
Administrator

Adjust your photo

Take a photo   Open Camera

Choose a file   Browse files
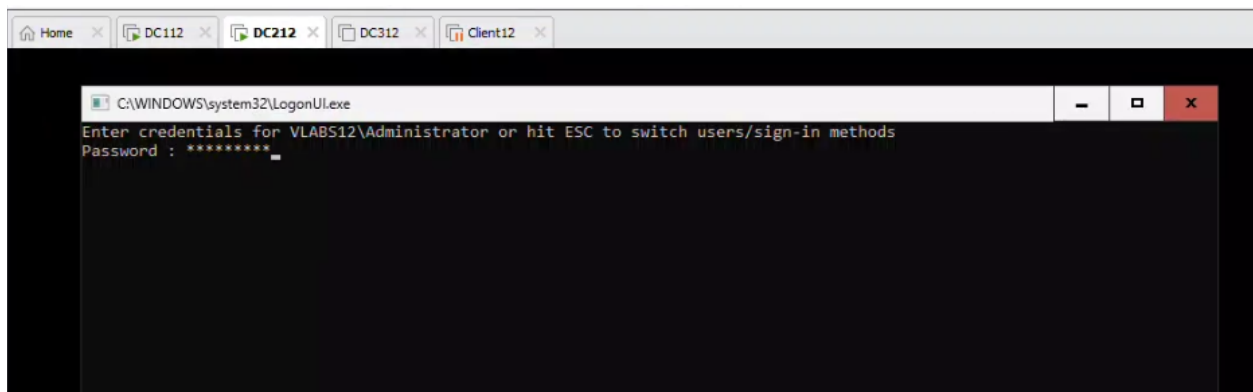
Step 3: Configure DC212 as a Domain Controller Replica for vlabs12.com

Verifications


```
PS C:\Users\Administrator.VLABS12> Get-ADDomainController -Identity DC212

ComputerObjectDN         : CN=DC212,OU=Domain Controllers,DC=vlabs12,DC=com
DefaultPartition         : DC=vlabs12,DC=com
Domain                   : vlabs12.com
Enabled                  : True
Forest                   : vlabs12.com
HostName                 : DC212.vlabs12.com
InvocationId             : 069dfaef-1e3e-44d9-9d62-6e623e7fec85
IPv4Address              : 192.168.12.2
IPv6Address              :
IsGlobalCatalog          : False
IsReadOnly               : True
LdapPort                 : 389
Name                     : DC212
NTDSSettingsObjectDN     : CN=NTDS Settings,CN=DC212,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
OperatingSystem          : Windows Server 2025 Standard
OperatingSystemHotfix    :
OperatingSystemServicePack :
OperatingSystemVersion   : 10.0 (26100)
OperationMasterRoles     : {}
Partitions               : {DC=ForestDnsZones,DC=vlabs12,DC=com, DC=DomainDnsZones,DC=vlabs12,DC=com, CN=Schema,CN=Configuration,DC=vlabs12,DC=com,
                           CN=Configuration,DC=vlabs12,DC=com...}
ServerObjectDN           : CN=DC212,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
ServerObjectGuid         : f7f25b94-4c69-4f6f-8acb-495c51bf58a1
Site                     : Default-First-Site-Name
SslPort                  : 636

PS C:\Users\Administrator.VLABS12> Get-ADDomainController -Filter * | Select Name, IsReadOnly, IsGlobalCatalog

Name   IsReadOnly IsGlobalCatalog
----   ---------- ---------------
DC112       False            True
DC212        True           False

PS C:\Users\Administrator.VLABS12>
```

```
PS C:\Users\Administrator.VLABS12> Get-ADUser -Filter *


DistinguishedName : CN=Guest,CN=Users,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : Guest
ObjectClass       : user
ObjectGUID        : 462bb86b-81dc-4c0a-ae79-3f07262166c4
SamAccountName    : Guest
SID               : S-1-5-21-3965017041-2830479508-2915048575-501
Surname           :
UserPrincipalName :

DistinguishedName : CN=Administrator,CN=Users,DC=vlabs12,DC=com
Enabled           : True
GivenName         :
Name              : Administrator
ObjectClass       : user
ObjectGUID        : c5f50071-0192-49dc-8e66-94daf30fd9d7
SamAccountName    : Administrator
SID               : S-1-5-21-3965017041-2830479508-2915048575-500
Surname           :
UserPrincipalName :

DistinguishedName : CN=krbtgt,CN=Users,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : krbtgt
ObjectClass       : user
ObjectGUID        : d295d024-3043-412b-a6c0-ccd2aa180b4b
SamAccountName    : krbtgt
SID               : S-1-5-21-3965017041-2830479508-2915048575-502
Surname           :
UserPrincipalName :
```

```
DistinguishedName : CN=krbtgt,CN=Users,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : krbtgt
ObjectClass       : user
ObjectGUID        : d295d024-3043-412b-a6c0-ccd2aa180b4b
SamAccountName    : krbtgt
SID               : S-1-5-21-3965017041-2830479508-2915048575-502
Surname           :
UserPrincipalName :

DistinguishedName : CN=krbtgt_13647,CN=Users,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : krbtgt_13647
ObjectClass       : user
ObjectGUID        : d1439078-5fde-4868-bf9c-e1bb8985b6be
SamAccountName    : krbtgt_13647
SID               : S-1-5-21-3965017041-2830479508-2915048575-1105
Surname           :
UserPrincipalName :


PS C:\Users\Administrator.VLABS12> _
```

```
PS C:\Users\Administrator.VLABS12> Get-ADGroup -Filter *


DistinguishedName : CN=Administrators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Administrators
ObjectClass       : group
ObjectGUID        : 73a9cf03-90a9-4327-954f-a8f2086bfd7c
SamAccountName    : Administrators
SID               : S-1-5-32-544

DistinguishedName : CN=Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Users
ObjectClass       : group
ObjectGUID        : 4e3f0dc3-5c2e-4da7-b2e4-c6a56b5abef9
SamAccountName    : Users
SID               : S-1-5-32-545

DistinguishedName : CN=Guests,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Guests
ObjectClass       : group
ObjectGUID        : f155f9f7-90d7-406c-a555-da3798cf7f05
SamAccountName    : Guests
SID               : S-1-5-32-546

DistinguishedName : CN=Remote Desktop Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
```

```
DistinguishedName : CN=Remote Desktop Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Remote Desktop Users
ObjectClass       : group
ObjectGUID        : 92ff7a3b-e5a3-4b1c-8dd9-483bcaea576b
SamAccountName    : Remote Desktop Users
SID               : S-1-5-32-555

DistinguishedName : CN=Network Configuration Operators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Network Configuration Operators
ObjectClass       : group
ObjectGUID        : a8f4f72b-2159-4298-92a5-9f366aa78fdb
SamAccountName    : Network Configuration Operators
SID               : S-1-5-32-556

DistinguishedName : CN=Performance Monitor Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Performance Monitor Users
ObjectClass       : group
ObjectGUID        : eb6b98c4-c28d-4e86-9ad3-43af3d99564c
SamAccountName    : Performance Monitor Users
SID               : S-1-5-32-558

DistinguishedName : CN=Performance Log Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Performance Log Users
ObjectClass       : group
ObjectGUID        : 29b0f2c2-7ff4-490f-a736-60ed7dcd3d82
SamAccountName    : Performance Log Users
SID               : S-1-5-32-559
```

```
DistinguishedName : CN=Distributed COM Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Distributed COM Users
ObjectClass       : group
ObjectGUID        : c19feedf-f61a-4e0c-91ad-9896dc0621a3
SamAccountName    : Distributed COM Users
SID               : S-1-5-32-562

DistinguishedName : CN=IIS_IUSRS,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : IIS_IUSRS
ObjectClass       : group
ObjectGUID        : d33dc35d-5160-43b0-94f5-7bd29d9cd801
SamAccountName    : IIS_IUSRS
SID               : S-1-5-32-568

DistinguishedName : CN=Cryptographic Operators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Cryptographic Operators
ObjectClass       : group
ObjectGUID        : 860a947a-a360-40a1-958b-c59bf79921b6
SamAccountName    : Cryptographic Operators
SID               : S-1-5-32-569

DistinguishedName : CN=Event Log Readers,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Event Log Readers
ObjectClass       : group
ObjectGUID        : c7d21a16-5413-4a67-a435-df93c5b12c1a
SamAccountName    : Event Log Readers
SID               : S-1-5-32-573
```

```
DistinguishedName : CN=Certificate Service DCOM Access,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Certificate Service DCOM Access
ObjectClass       : group
ObjectGUID        : 437c1e0f-07be-49e6-8fce-7ae421169c43
SamAccountName    : Certificate Service DCOM Access
SID               : S-1-5-32-574

DistinguishedName : CN=RDS Remote Access Servers,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : RDS Remote Access Servers
ObjectClass       : group
ObjectGUID        : 6bd2f52f-b7b9-4c65-a66a-8583ae66edcc
SamAccountName    : RDS Remote Access Servers
SID               : S-1-5-32-575

DistinguishedName : CN=RDS Endpoint Servers,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : RDS Endpoint Servers
ObjectClass       : group
ObjectGUID        : 62a9bd1c-ead1-42eb-9a9b-e94a6d9f6ae0
SamAccountName    : RDS Endpoint Servers
SID               : S-1-5-32-576

DistinguishedName : CN=RDS Management Servers,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : RDS Management Servers
ObjectClass       : group
ObjectGUID        : 7e250c4b-a892-48ef-a10b-34cd59c4700e
SamAccountName    : RDS Management Servers
SID               : S-1-5-32-577
```

```
DistinguishedName : CN=Hyper-V Administrators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Hyper-V Administrators
ObjectClass       : group
ObjectGUID        : 4b7977bc-a5f7-403c-bdf5-d276726c15c8
SamAccountName    : Hyper-V Administrators
SID               : S-1-5-32-578

DistinguishedName : CN=Access Control Assistance Operators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Access Control Assistance Operators
ObjectClass       : group
ObjectGUID        : 16896785-e03e-4a1e-b163-d17ea0556614
SamAccountName    : Access Control Assistance Operators
SID               : S-1-5-32-579

DistinguishedName : CN=Remote Management Users,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Remote Management Users
ObjectClass       : group
ObjectGUID        : dd71f833-ecfd-4a73-9b8a-995a5b9d5b70
SamAccountName    : Remote Management Users
SID               : S-1-5-32-580

DistinguishedName : CN=Storage Replica Administrators,CN=Builtin,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Storage Replica Administrators
ObjectClass       : group
ObjectGUID        : 85e0628c-8611-4459-9f3b-2a5a5028d777
SamAccountName    : Storage Replica Administrators
SID               : S-1-5-32-582
```

```
DistinguishedName : CN=Domain Computers,CN=Users,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : Global
Name              : Domain Computers
ObjectClass       : group
ObjectGUID        : 61cfcd41-f294-467a-8e2e-793cdb1cc504
SamAccountName    : Domain Computers
SID               : S-1-5-21-3965017041-2830479508-2915048575-515

DistinguishedName : CN=Cert Publishers,CN=Users,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Cert Publishers
ObjectClass       : group
ObjectGUID        : 94e9eb3b-8f32-4ea0-bb13-d496c11970e0
SamAccountName    : Cert Publishers
SID               : S-1-5-21-3965017041-2830479508-2915048575-517

DistinguishedName : CN=Domain Users,CN=Users,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : Global
Name              : Domain Users
ObjectClass       : group
ObjectGUID        : 17c89e25-ce99-4d4c-9a84-0c2779792fa0
SamAccountName    : Domain Users
SID               : S-1-5-21-3965017041-2830479508-2915048575-513

DistinguishedName : CN=Domain Guests,CN=Users,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : Global
Name              : Domain Guests
ObjectClass       : group
ObjectGUID        : 833a7ef5-4463-4134-82bb-78810618b868
SamAccountName    : Domain Guests
SID               : S-1-5-21-3965017041-2830479508-2915048575-514
```

```
PS C:\Users\Administrator.VLABS12> Get-ADOrganizationalUnit -Filter *


City                     :
Country                  :
DistinguishedName        : OU=Domain Controllers,DC=vlabs12,DC=com
LinkedGroupPolicyObjects : {CN={6AC1786C-016F-11D2-945F-00C04fB984F9},CN=Policies,CN=System,DC=vlabs12,DC=com}
ManagedBy                :
Name                     : Domain Controllers
ObjectClass              : organizationalUnit
ObjectGUID               : 0bf29f0a-1dd0-4ee1-a921-39ea9df9ce37
PostalCode               :
State                    :
StreetAddress            :
```

```
PS C:\Users\Administrator.VLABS12.000> repadmin /replsummary
Replication Summary Start Time: 2025-05-05 16:58:02

Beginning data collection for replication summary, this may take awhile:
  .....


Source DSA          largest delta    fails/total %%    error
 DC112                    02m:51s      0 /   5      0


Destination DSA     largest delta    fails/total %%    error
 DC212                    02m:51s      0 /   5      0
```

```
PS C:\Users\Administrator.DC112> repadmin /replsummary
Replication Summary Start Time: 2025-05-05 16:57:47

Beginning data collection for replication summary, this may take awhile:
  .....

Source DSA          largest delta    fails/total %%    error
 DC112                    02m:36s      0 /   5      0


Destination DSA     largest delta    fails/total %%    error
 DC212                    02m:35s      0 /   5      0
```

Step 4: Deploy DC312as a Child Domain (lab12.vlabs12.com) using PowerShell

Verifications

```
PS C:\Users\Administrator.VLABS12> Get-ADDomainController -Identity "DC312"


ComputerObjectDN            : CN=DC312,OU=Domain Controllers,DC=lab12,DC=vlabs12,DC=com
DefaultPartition            : DC=lab12,DC=vlabs12,DC=com
Domain                      : lab12.vlabs12.com
Enabled                     : True
Forest                      : vlabs12.com
HostName                    : DC312.lab12.vlabs12.com
InvocationId                : e50ed9c0-33d1-4ef3-b9da-454d81e7ba98
IPv4Address                 : 192.168.12.3
IPv6Address                 :
IsGlobalCatalog             : True
IsReadOnly                  : False
LdapPort                    : 389
Name                        : DC312
NTDSSettingsObjectDN        : CN=NTDS Settings,CN=DC312,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
OperatingSystem             : Windows Server 2022 Datacenter
OperatingSystemHotfix       :
OperatingSystemServicePack  :
OperatingSystemVersion      : 10.0 (20348)
OperationMasterRoles        : {PDCEmulator, RIDMaster, InfrastructureMaster}
Partitions                  : {DC=DomainDnsZones,DC=lab12,DC=vlabs12,DC=com, DC=lab12,DC=vlabs12,DC=com, DC=ForestDnsZones,DC=vlabs12,DC=com,
                              CN=Schema,CN=Configuration,DC=vlabs12,DC=com...}
ServerObjectDN              : CN=DC312,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
ServerObjectGuid            : 7accb483-20fb-46a3-83b9-5489cd5708c4
Site                        : Default-First-Site-Name
SslPort                     : 636
```

```
                        PS C:\Users\Administrator.VLABS12> Get-ADDomain -Identity "lab12.vlabs12.com"

AllowedDNSSuffixes                    : {}
ChildDomains                          : {}
ComputersContainer                    : CN=Computers,DC=lab12,DC=vlabs12,DC=com
DeletedObjectsContainer               : CN=Deleted Objects,DC=lab12,DC=vlabs12,DC=com
DistinguishedName                     : DC=lab12,DC=vlabs12,DC=com
DNSRoot                               : lab12.vlabs12.com
DomainControllersContainer            : OU=Domain Controllers,DC=lab12,DC=vlabs12,DC=com
DomainMode                            : Windows2016Domain
DomainSID                             : S-1-5-21-634356128-4104644875-2871570820
ForeignSecurityPrincipalsContainer    : CN=ForeignSecurityPrincipals,DC=lab12,DC=vlabs12,DC=com
Forest                                : vlabs12.com
InfrastructureMaster                  : DC312.lab12.vlabs12.com
LastLogonReplicationInterval          :
LinkedGroupPolicyObjects              : {CN={31B2F340-016D-11D2-945F-00C04FB984F9},CN=Policies,CN=System,DC=lab12,DC=vlabs
                                        12,DC=com}
LostAndFoundContainer                 : CN=LostAndFound,DC=lab12,DC=vlabs12,DC=com
ManagedBy                             :
Name                                  : lab12
NetBIOSName                           : LAB12
ObjectClass                           : domainDNS
ObjectGUID                            : bf6d5450-335a-4869-9a9b-f0848adc1915
ParentDomain                          : vlabs12.com
PDCEmulator                           : DC312.lab12.vlabs12.com
PublicKeyRequiredPasswordRolling      : True
QuotasContainer                       : CN=NTDS Quotas,DC=lab12,DC=vlabs12,DC=com
ReadOnlyReplicaDirectoryServers       : {}
ReplicaDirectoryServers               : {DC312.lab12.vlabs12.com}
RIDMaster                             : DC312.lab12.vlabs12.com
SubordinateReferences                 : {}
SystemsContainer                      : CN=System,DC=lab12,DC=vlabs12,DC=com
UsersContainer                        : CN=Users,DC=lab12,DC=vlabs12,DC=com

PS C:\Users\Administrator.VLABS12>
PS C:\Users\Administrator.VLABS12> Get-ADObject -Identity "DC=lab12,DC=vlabs12,DC=com"

DistinguishedName          Name  ObjectClass ObjectGUID
-----------------          ----  ----------- ----------
DC=lab12,DC=vlabs12,DC=com lab12 domainDNS   bf6d5450-335a-4869-9a9b-f0848adc1915
```

```
PS C:\Users\Administrator.VLABS12> Get-ADUser -Filter *


DistinguishedName : CN=Administrator,CN=Users,DC=lab12,DC=vlabs12,DC=com
Enabled           : True
GivenName         :
Name              : Administrator
ObjectClass       : user
ObjectGUID        : 657f9df1-eabe-43c5-aa35-73bd345fb5c9
SamAccountName    : Administrator
SID               : S-1-5-21-634356128-4104644875-2871570820-500
Surname           :
UserPrincipalName :

DistinguishedName : CN=Guest,CN=Users,DC=lab12,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : Guest
ObjectClass       : user
ObjectGUID        : 069ccaca-99f5-4559-9821-4a4770b13a20
SamAccountName    : Guest
SID               : S-1-5-21-634356128-4104644875-2871570820-501
Surname           :
UserPrincipalName :

DistinguishedName : CN=krbtgt,CN=Users,DC=lab12,DC=vlabs12,DC=com
Enabled           : False
GivenName         :
Name              : krbtgt
ObjectClass       : user
ObjectGUID        : 788688c6-1e56-4fe3-a18f-154d663176e7
SamAccountName    : krbtgt
SID               : S-1-5-21-634356128-4104644875-2871570820-502
Surname           :
UserPrincipalName :
```

```
PS C:\Users\Administrator.VLABS12> Get-ADGroup -Filter *


DistinguishedName : CN=Administrators,CN=Builtin,DC=lab12,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Administrators
ObjectClass       : group
ObjectGUID        : 8f91240f-f704-4a9c-b36f-8c81260e6f7e
SamAccountName    : Administrators
SID               : S-1-5-32-544

DistinguishedName : CN=Users,CN=Builtin,DC=lab12,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Users
ObjectClass       : group
ObjectGUID        : 8b773e1a-863d-4c83-a41c-fc8c26b7e4d6
SamAccountName    : Users
SID               : S-1-5-32-545

DistinguishedName : CN=Guests,CN=Builtin,DC=lab12,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
Name              : Guests
ObjectClass       : group
ObjectGUID        : f8f218ca-282c-4965-9b2a-63ef0a7c3860
SamAccountName    : Guests
SID               : S-1-5-32-546

DistinguishedName : CN=Print Operators,CN=Builtin,DC=lab12,DC=vlabs12,DC=com
GroupCategory     : Security
GroupScope        : DomainLocal
```

```
PS C:\Users\Administrator.VLABS12> Get-ADOrganizationalUnit -Filter *


City                     :
Country                  :
DistinguishedName        : OU=Domain Controllers,DC=lab12,DC=vlabs12,DC=com
LinkedGroupPolicyObjects : {CN={6AC1786C-016F-11D2-945F-00C04fB984F9},CN=Policies,CN=System,DC=lab12,DC=vlabs12,DC=com}
ManagedBy                :
Name                     : Domain Controllers
ObjectClass              : organizationalUnit
ObjectGUID               : 135c9958-c5aa-4bb7-b303-208c2fe09b79
PostalCode               :
State                    :
StreetAddress            :
```

```
Syncing partition: CN=Schema,CN=Configuration,DC=vlabs12,DC=com
CALLBACK MESSAGE: The following replication is in progress:
    From: CN=NTDS Settings,CN=DC312,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
    To  : CN=NTDS Settings,CN=DC112,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
Q to quit, any other key to continue.
CALLBACK MESSAGE: The following replication completed successfully:
    From: CN=NTDS Settings,CN=DC312,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
    To  : CN=NTDS Settings,CN=DC112,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=vlabs12,DC=com
Q to quit, any other key to continue.
```

```
PS C:\Users\Administrator.VLABS12> Resolve-DnsName -Name "lab12.vlabs12.com" -Type A

Name                                    Type  TTL  Section   IPAddress
----                                    ----  ---  -------   ---------
lab12.vlabs12.com                       A     600  Answer    192.168.12.3


PS C:\Users\Administrator.VLABS12>
```

File   Action   View   Help

Active Directory Sites and Servic	Name	Domain	Bridgehead	DC Type	Descript
∨ Sites	DC112	vlabs12.com		GC	
> Inter-Site Transports	DC212	vlabs12.com		Read-only, DC	
> Subnets	DC312	lab12.vlabs12.com		GC	
∨ Default-First-Site-Name					
> Servers					