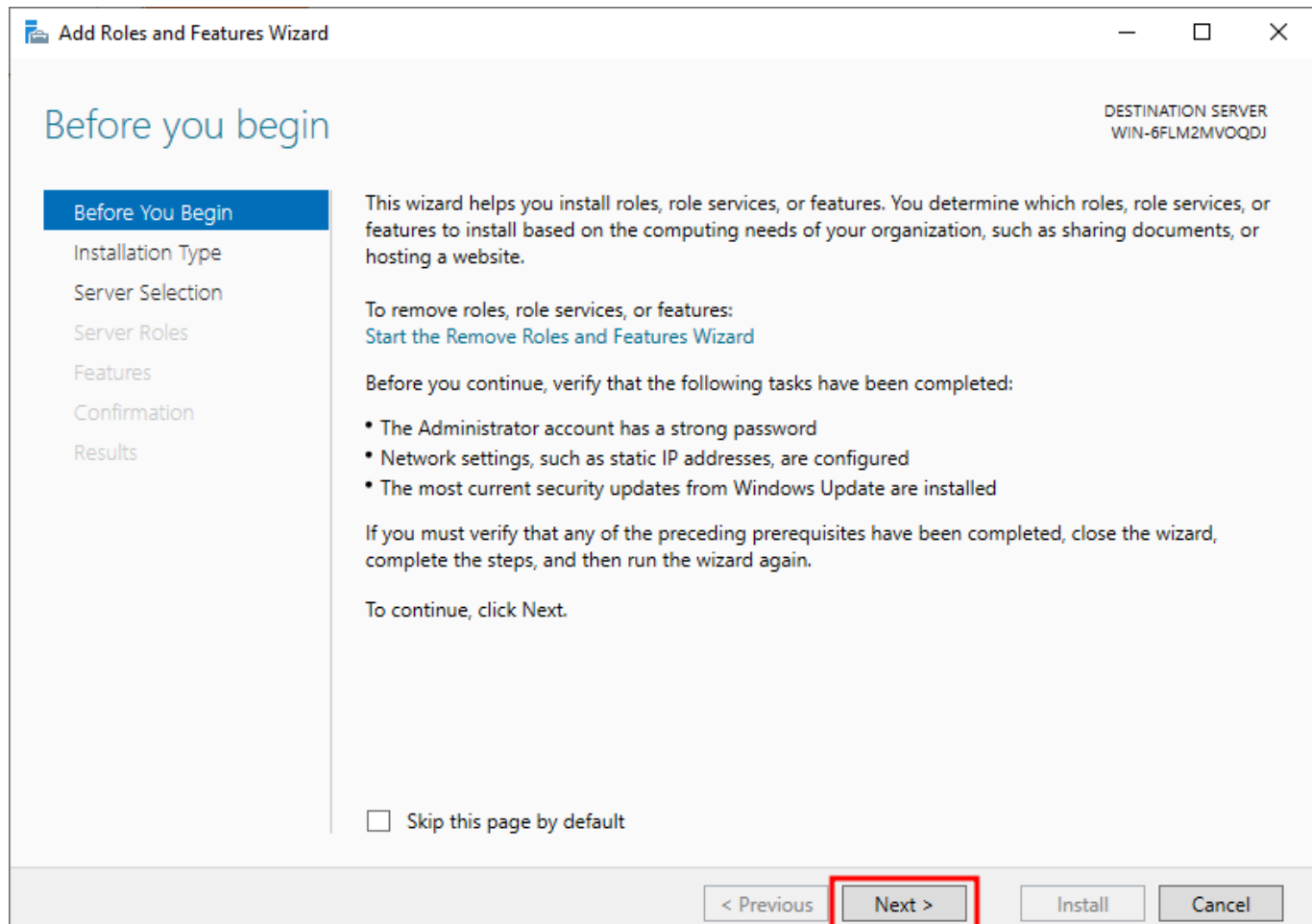
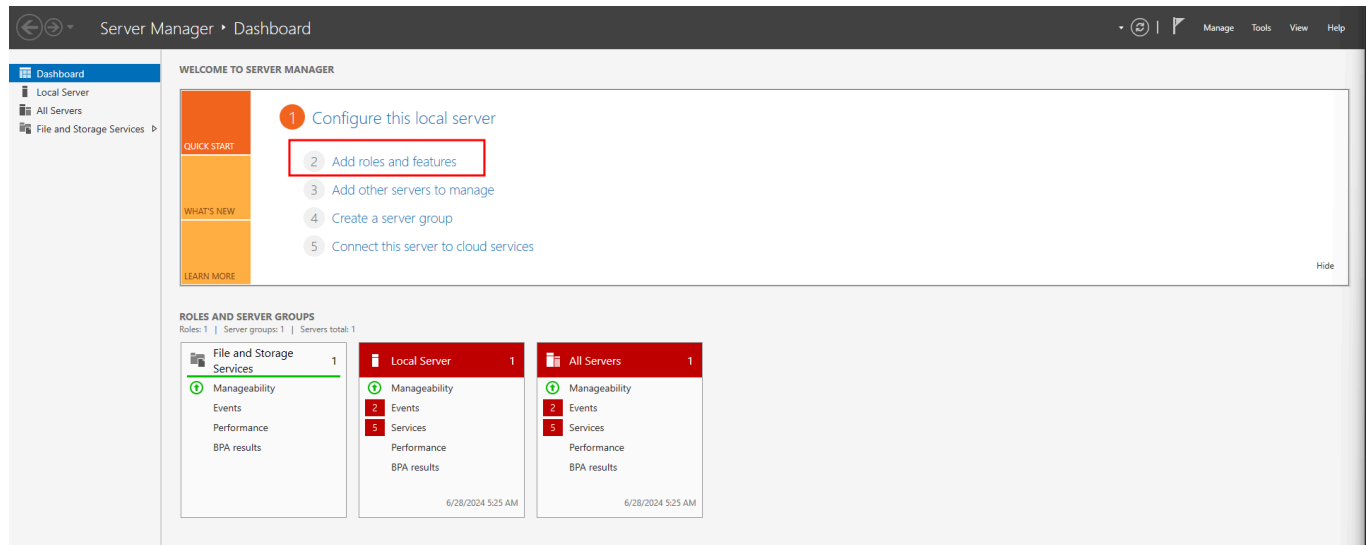


# CC-DC-Anleitung



Add Roles and Features Wizard

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

## Select installation type

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

☒ **Role-based or feature-based installation**  
Configure a single server by adding roles, role services, and features.

☐ **Remote Desktop Services installation**  
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous

Next >

Install

Cancel

Add Roles and Features Wizard

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

## Select destination server

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select a server or a virtual hard disk on which to install roles and features.

☒ Select a server from the server pool

☐ Select a virtual hard disk

Server Pool

Filter:

Name	IP Address	Operating System
WIN-6FLM2MVOQDJ	10.0.2.15,192.1...	Microsoft Windows Server 2022 Standard Evaluation

1 Computer(s) found

This page shows servers that are running Windows Server 2012 or a newer release of Windows Server, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.

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Cancel

## Select server roles

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select one or more roles to install on the selected server.

## Roles

- ☐ Active Directory Certificate Services
- ☐ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Device Health Attestation
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ▷ ☒ File and Storage Services (1 of 12 installed)
- ☐ Host Guardian Service
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Access
- ☐ Remote Desktop Services
- ☐ Volume Activation Services
- ☐ Web Server (IIS)
- ☐ Windows Deployment Services
- ☐ Windows Server Update Services

## Description

Active Directory Domain Services (AD DS) stores information about objects on the network and makes this information available to users and network administrators. AD DS uses domain controllers to give network users access to permitted resources anywhere on the network through a single logon process.

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Cancel

## Select server roles

Before You Begin  
Installation Type  
Server Selection  
**Server Roles**  
Features  
Confirmation  
Results

**Add Roles and Features Wizard**

**Add features that are required for Active Directory Domain Services?**

You cannot install Active Directory Domain Services unless the following role services or features are also installed.

- [Tools] Group Policy Management
- Remote Server Administration Tools
  - Role Administration Tools
    - AD DS and AD LDS Tools
      - Active Directory module for Windows PowerShell
    - AD DS Tools
      - [Tools] Active Directory Administrative Center
      - [Tools] AD DS Snap-Ins and Command-Line Tools

☒ Include management tools (if applicable)

**Add Features** Cancel

DESTINATION SERVER  
WIN-6FLM2MVOQDJ



## Description

Directory Domain Services (AD DS) stores information about users and groups on the network and makes this information available to users and network administrators. AD DS enables domain controllers to give users access to permitted resources anywhere on the network through a single logon process.

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Install

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## Select server roles

Before You Begin  
Installation Type  
Server Selection  
**Server Roles**  
Features  
AD DS  
Confirmation  
Results

Select one or more roles to install on the selected server.

## Roles

- ☐ Active Directory Certificate Services
- ☒ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Device Health Attestation
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ☒ File and Storage Services (1 of 12 installed)
- ☐ Host Guardian Service
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Access
- ☐ Remote Desktop Services
- ☐ Volume Activation Services
- ☐ Web Server (IIS)
- ☐ Windows Deployment Services
- ☐ Windows Server Update Services

## Description

Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.

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Install

Cancel

## Select server roles

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

Confirmation

Results

**Add Roles and Features Wizard**

**Add features that are required for DNS Server?**

The following tools are required to manage this feature, but do not have to be installed on the same server.

- Remote Server Administration Tools
  - Role Administration Tools
    - [Tools] DNS Server Tools

☒ Include management tools (if applicable)

**Add Features** Cancel

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Next &gt;

Install

Cancel

## Select server roles

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

DNS Server

Confirmation

Results

Select one or more roles to install on the selected server.

## Roles

- ☐ Active Directory Certificate Services
- ☒ Active Directory Domain Services
- ☐ Active Directory Federation Services
- ☐ Active Directory Lightweight Directory Services
- ☐ Active Directory Rights Management Services
- ☐ Device Health Attestation
- ☐ DHCP Server
- ☒ DNS Server
- ☐ Fax Server
- ☒ File and Storage Services (1 of 12 installed)
- ☐ Host Guardian Service
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Access
- ☐ Remote Desktop Services
- ☐ Volume Activation Services
- ☐ Web Server (IIS)
- ☐ Windows Deployment Services
- ☐ Windows Server Update Services

## Description

Domain Name System (DNS) Server provides name resolution for TCP/IP networks. DNS Server is easier to manage when it is installed on the same server as Active Directory Domain Services. If you select the Active Directory Domain Services role, you can install and configure DNS Server and Active Directory Domain Services to work together.

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## Select features

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

DNS Server

Confirmation

Results

Select one or more features to install on the selected server.

## Features

<input type="checkbox"/>	.NET Framework 3.5 Features
<input checked="" type="checkbox"/>	.NET Framework 4.8 Features (2 of 7 installed)
<input checked="" type="checkbox"/>	Azure Arc Setup (Installed)
<input type="checkbox"/>	Background Intelligent Transfer Service (BITS)
<input type="checkbox"/>	BitLocker Drive Encryption
<input type="checkbox"/>	BitLocker Network Unlock
<input type="checkbox"/>	BranchCache
<input type="checkbox"/>	Client for NFS
<input type="checkbox"/>	Containers
<input type="checkbox"/>	Data Center Bridging
<input type="checkbox"/>	Direct Play
<input type="checkbox"/>	Enhanced Storage
<input type="checkbox"/>	Failover Clustering
<input checked="" type="checkbox"/>	Group Policy Management
<input type="checkbox"/>	Host Guardian Hyper-V Support
<input type="checkbox"/>	I/O Quality of Service
<input type="checkbox"/>	IIS Hostable Web Core
<input type="checkbox"/>	Internet Printing Client
<input type="checkbox"/>	IP Address Management (IPAM) Server

## Description

.NET Framework 3.5 combines the power of the .NET Framework 2.0 APIs with new technologies for building applications that offer appealing user interfaces, protect your customers' personal identity information, enable seamless and secure communication, and provide the ability to model a range of business processes.

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Install

Cancel

## Active Directory Domain Services

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

DNS Server

Confirmation

Results

Active Directory Domain Services (AD DS) stores information about users, computers, and other devices on the network. AD DS helps administrators securely manage this information and facilitates resource sharing and collaboration between users.

## Things to note:

- To help ensure that users can still log on to the network in the case of a server outage, install a minimum of two domain controllers for a domain.
- AD DS requires a DNS server to be installed on the network. If you do not have a DNS server installed, you will be prompted to install the DNS Server role on this machine.



Azure Active Directory, a separate online service, can provide simplified identity and access management, security reporting, single sign-on to cloud and on-premises web apps.

[Learn more about Azure Active Directory](#)[Configure Office 365 with Azure Active Directory Connect](#)

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Install

Cancel

## DNS Server

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin  
Installation Type  
Server Selection  
Server Roles  
Features  
AD DS  
**DNS Server**  
Confirmation  
Results

Domain Name System (DNS) provides a standard method for associating names with numeric Internet addresses. This makes it possible for users to refer to network computers by using easy-to-remember names instead of a long series of numbers. In addition, DNS provides a hierarchical namespace, ensuring that each host name will be unique across a local or wide-area network. Windows DNS services can be integrated with Dynamic Host Configuration Protocol (DHCP) services on Windows, eliminating the need to add DNS records as computers are added to the network.

## Things to note:

- DNS server integration with Active Directory Domain Services automatically replicates DNS data along with other Directory Service data, making it easier to manage DNS.
- Active Directory Domain Services requires a DNS server to be installed on the network. If you are installing a domain controller, you can also install the DNS Server role using Active Directory Domain Services Installation Wizard by selecting the Active Directory Domain Services role.

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Install

Cancel

## Confirm installation selections

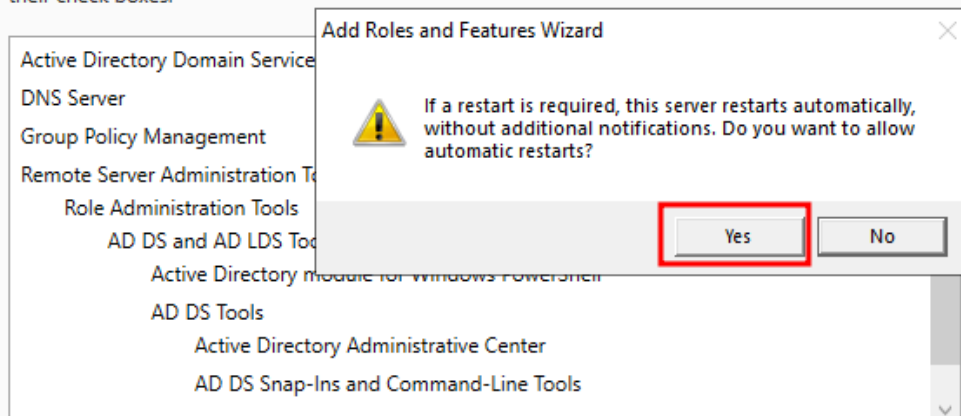
DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin  
Installation Type  
Server Selection  
Server Roles  
Features  
AD DS  
DNS Server  
**Confirmation**  
Results

To install the following roles, role services, or features on selected server, click Install.

☒ Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.



[Export configuration settings](#)  
[Specify an alternate source path](#)

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Install

Cancel

## Installation progress

DESTINATION SERVER  
WIN-6FLM2MVOQDJ

Before You Begin

Installation Type

Server Selection

Server Roles

Features


AD DS

DNS Server


Confirmation

Results

View installation progress

 Starting installation

Active Directory Domain Services  
DNS Server  
Group Policy Management  
Remote Server Administration Tools  
    Role Administration Tools  
        AD DS and AD LDS Tools  
            Active Directory module for Windows PowerShell  
            AD DS Tools  
                Active Directory Administrative Center  
                AD DS Snap-Ins and Command-Line Tools  
DNS Server Tools

 You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.



[Export configuration settings](#)

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Install

Cancel

 |  Manage Tools View Help

## Installation progress

DESTINATION SERVER  
WIN-6FLM2MVOQDJ


Results

View installation progress

 Feature installation

Configuration required. Installation succeeded on WIN-6FLM2MVOQDJ.

Active Directory Domain Services  
Additional steps are required to make this machine a domain controller.  
**Promote this server to a domain controller**  
DNS Server  
Group Policy Management  
Remote Server Administration Tools  
    Role Administration Tools  
        AD DS and AD LDS Tools  
            Active Directory module for Windows PowerShell  
            AD DS Tools  
                Active Directory Administrative Center

 You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

[Export configuration settings](#)

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Close

Cancel

Hide



# Deployment Configuration

TARGET SERVER  
WIN-6FLM2MVOQDJ

## Deployment Configuration

Domain Controller Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select the deployment operation

- ☐ Add a domain controller to an existing domain
- ☐ Add a new domain to an existing forest
- ☒ Add a new forest

Specify the domain information for this operation

Root domain name:

awesome.local

[More about deployment configurations](#)

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Install

Cancel

# Domain Controller Options

TARGET SERVER  
WIN-6FLM2MVOQDJ

Deployment Configuration

**Domain Controller Options**

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select functional level of the new forest and root domain

Forest functional level: Windows Server 2016 ▾

Domain functional level: Windows Server 2016 ▾

Specify domain controller capabilities

☒ Domain Name System (DNS) server☒ Global Catalog (GC)☐ Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password: .....

Confirm password: .....

[More about domain controller options](#)

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Install

Cancel

## DNS Options

TARGET SERVER  
WIN-6FLM2MVOQDJ

⚠ A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found... [Show more](#) ×

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Specify DNS delegation options

☐ Create DNS delegation[More about DNS delegation](#)

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## Additional Options

TARGET SERVER  
WIN-6FLM2MVOQDJ

Deployment Configuration

Domain Controller Options

DNS Options

**Additional Options**

Paths

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Prerequisites Check

Installation

Results

Verify the NetBIOS name assigned to the domain and change it if necessary

The NetBIOS domain name:

[More about additional options](#)

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## Paths

TARGET SERVER  
WIN-6FLM2MVOQDJ

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Specify the location of the AD DS database, log files, and SYSVOL

Database folder:

C:\Windows\NTDS



Log files folder:

C:\Windows\NTDS



SYSVOL folder:

C:\Windows\SYSVOL

[More about Active Directory paths](#)

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Install

Cancel

## Review Options

TARGET SERVER  
WIN-6FLM2MVOQDJ

- Deployment Configuration
- Domain Controller Options
  - DNS Options
  - Additional Options
  - Paths
  - Review Options**
  - Prerequisites Check
- Installation
- Results

### Review your selections:

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

The new domain name is "awesome.local". This is also the name of the new forest.

The NetBIOS name of the domain: AWESOME

Forest Functional Level: Windows Server 2016

Domain Functional Level: Windows Server 2016

### Additional Options:

Global catalog: Yes

DNS Server: Yes

Create DNS Delegation: No

These settings can be exported to a Windows PowerShell script to automate additional installations

[View script](#)

[More about installation options](#)


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Install

Cancel

## Prerequisites Check

TARGET SERVER  
WIN-6FLM2MVOQDJ All prerequisite checks passed successfully. Click 'Install' to begin installation.[Show more](#)

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths


Review Options


Prerequisites Check

Installation


Results


Prerequisites need to be validated before Active Directory Domain Services is installed on this computer

[Rerun prerequisites check](#) View results

 Windows Server 2022 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.

For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).

 This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. If both IPv4 and IPv6 are enabled for a network adapter, both IPv4 and IPv6 static IP addresses should be assigned to both IPv4 and IPv6 Properties of the physical network adapter. Such static IP address(es) assignment should be done to all the physical network adapters for reliable Domain Name System

 If you click Install, the server automatically reboots at the end of the promotion operation.

[More about prerequisites](#)

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Cancel

# Installation

TARGET SERVER  
WIN-6FLM2MVOQDJ

Deployment Configuration  
Domain Controller Options  
DNS Options  
Additional Options  
Paths  
Review Options  
Prerequisites Check  
**Installation**  
Results

## Progress

### Setting the LSA policy information

⬆ View detailed operation results



Windows Server 2022 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.

For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).



This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. If both IPv4 and IPv6 are enabled for a network adapter, both IPv4 and IPv6 static IP addresses should be assigned to both IPv4 and IPv6 Properties of the physical network adapter. Such static IP address(es) assignment should be done to all the physical network adapters for reliable Domain Name System (DNS) operation.



A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the

[More about installation options](#)

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Cancel