

# 4.0 Mini-Intro to Roles/Features

What are roles and features?



# Role

Role is a type of server that a computer can assume. These include

- Web roles
- File server roles
- Communication server roles
- Management roles

and more

# Feature

An additional, smaller capability that you can install. These include:

- Bitlocker encryption
- Telnet Server and Client
- RIP Listener
- Powershell

Unlike a role, a feature does not drastically change the functionality of a computer within a network.

# What should I be concerned with?

Computers should only have roles/features that they need installed.

Examples:

Standard workstations should not have web server roles installed, as that exposes the system to the public.

A computer that doesn't use telnet should remove telnet, since keeping it just means another method for hackers to compromise the system.


# How to manage them?

Windows non-server versions (including 10)

- appwiz.cpl

Windows server versions (including 2016 and 2019)

- Use previous appwiz.cpl method OR
- Use server manager, go under “Manage” and look for the “Add/Remove Roles and Features”
  - To find server manager, you can use windows search


 Control Panel\Programs\Programs and Features

    > Control Panel > Programs > Programs and Features

File Edit View Tools

[Control Panel Home](#)

[View installed updates](#)


 [Turn Windows features on or off](#)


## Uninstall or change a program


To uninstall a program, select it from the list and then

Organize ▼

Name

 Google Chrome

 Mozilla Firefox 70.0 (x64 en-US)

 Spotify



## Dashboard

Local Server

All Servers

File and Storage Services ▸

Hyper-V

## WELCOME TO SERVER MANAGER

## QUICK START

## WHAT'S NEW

## LEARN MORE

1

Configure this local server

2

Add roles and features

3

Add other servers to manage

4

Create a server group

5

Connect this server to cloud services

Hide

## ROLES AND SERVER GROUPS

Roles: 2 | Server groups: 1 | Servers total: 1

File and Storage  
Services

1

1

Manageability

Events

Performance

BPA results

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## Hyper-V

1

1

Manageability

Events

Services

Performance

BPA results

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## Local Server

1

1

Manageability

Events

Services

Performance

BPA results

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## All Servers

1

1

Manageability

Events

Services

Performance

BPA results

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# Role Management (Server)

Role management in server versions is a tad bit fancier

## Process

- Select role-based or feature-based installation
- Select computer you would like to manage (your own)
- Choose the roles/features you want added/removed

There are two different windows for adding and removing roles/features

First two steps of the process outlined above are automatically set for you, so you just need to click the Next button



**Select server roles**

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

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

**Roles**

- ☐ Active Directory Rights Management Services
- ☐ Application Server
- ☐ DHCP Server
- ☐ DNS Server
- ☐ Fax Server
- ☒ File And Storage Services (Installed)
- ☐ Hyper-V
- ☐ Network Policy and Access Services
- ☐ Print and Document Services
- ☐ Remote Access
- ☐ Remote Desktop Services
- ☐ Volume Activation Services
- ☒ Windows Deployment Services
- ☐ Windows Server Update Services

**Description**

**Windows Deployment Services**  
provides a simplified, secure means of rapidly and remotely deploying Windows operating systems to computers over the network.

DESTINATION SERVER  
BAGINA

Manage  
Tools  
View  
Help

Add Roles and Features  
Remove Roles and Features  
Add Servers  
Create Server Group  
Server Manager Properties

SI Disk Device  
Disk Device  
Disk Device  
**Device**  
SI Disk Device  
Disk Device

TASKS ▾

pool exists.

< Previous   Next >   Install   Cancel

Features configuration is right after roles

Depending on the role you pick, you might have to do additional steps (as shown under WDS)

# Note on services

Uninstalling roles/features will also remove any services that came with the installation

Examples ([role] → [respective service]):

RIP Listener feature → Rip Listener service

Telnet Server feature → Telnet service

Internet Information Services (World Wide Web Services) role → World Wide Web Publishing Service

Internet Information Services (FTP Server) role → Microsoft FTP Service

# Difference between configuring service and role

Disabling and stopping a service will effectively stop communications and functionalities that the service provides

However, this is a temporary action - someone can re enable the service.

Uninstalling the role/feature that the service came with will ensure that the service is not accidentally/intentionally going to be turned on

- Roles/features management requires administrative privileges, whereas services management doesn't always