



Module 2: Administration

2. Administration

Lessons:

- ✓ Administration in Windows Server
- ✓ Administration in Azure

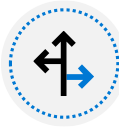
Lesson 1: Windows Server Administrations



Windows Server Administrations Basics



Overview Server Manager



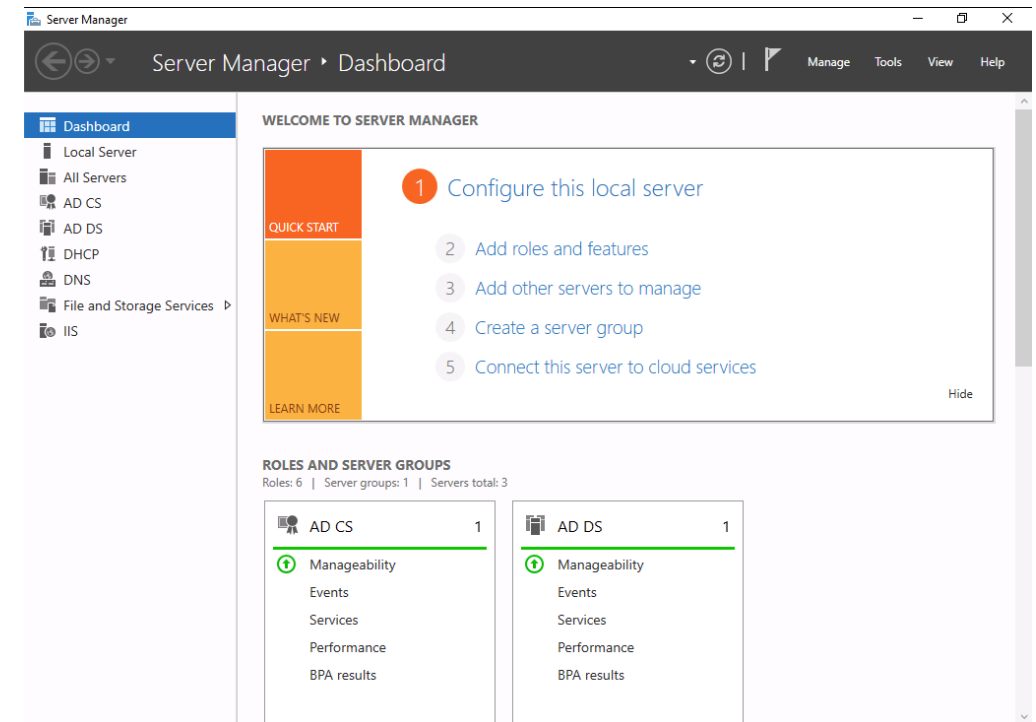
Overview Windows Server Admin Center



Overview of Server Administration with PowerShell

Overview Server Manager (1 of 2)

- Server Manager initially opens to the dashboard, which provides quick access to:
 - Add roles and features
 - Add other servers to manage
 - Create a server group
 - Connect this server to cloud services





Overview Server Manager (2 of 2)

- Server Manager allows server administrators to:
 - Manage the local server and remotely manage multiple servers
 - Configure the local server
 - Get basic information about installed hardware
 - Query event logs
 - Monitor status of services
 - Perform best practice analysis
 - Check performance monitors

Overview of Server Administration with PowerShell (1 of 2)

- Windows PowerShell is a command line shell and scripting language that allows task automation and configuration management
- Windows PowerShell cmdlets execute at a Windows PowerShell command prompt or combine into Windows PowerShell scripts



Overview of Server Administration with PowerShell (2 of 2)

- Cmdlets:
 - Are small commands that perform specific functions
 - Can be combined to perform multiple tasks
 - Can be piped together to perform multiple operations
- Modules:
 - Cmdlets specific to a product are packaged together and installed as modules
 - Some are installed with the product and some need to be added manually

Lesson 3: Azure Portal Administration



Azure Portal Administration



Use the Azure Portal



Use Azure Cloud Shell



Use Azure PowerShell



Use Azure CLI

Use the Azure Portal

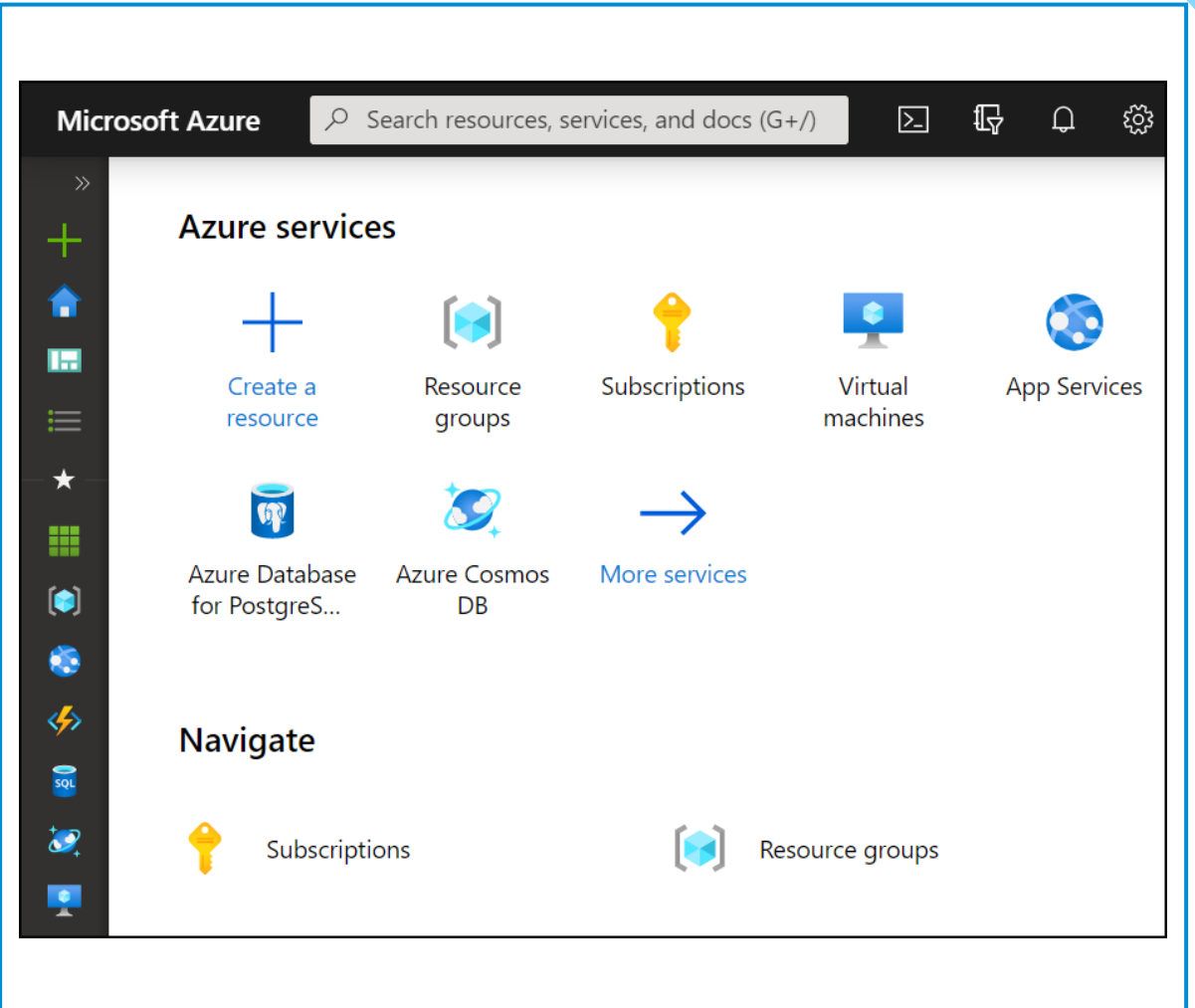
Search resources, services, and docs

Manage resources

Create customized dashboards and favorites

Access the Cloud Shell

Receive notifications



Use Azure Cloud Shell

Interactive, browser-accessible shell

Offers either Bash or PowerShell

Is temporary and provided on a per-session, per-user basis


Requires a resource group, storage account, and Azure File share

Authenticates automatically

Integrated graphical text editor

Is assigned one machine per user account

Times out after 20 minutes



Welcome to Azure Cloud Shell

Bash | PowerShell

Use Azure PowerShell

```
New-AzVm `
  -ResourceGroupName "CrmTestingResourceGroup" `
  -Name "CrmUnitTests" `
  -Image "UbuntuLTS" `
  ...
```

- Connect to your Azure subscription and manage resources
- Adds the Azure-specific commands
- Available inside a browser via the Azure Cloud Shell
- Available as a local installation on Linux, macOS, or Windows
- Has an interactive and a scripting mode

Use Azure CLI

```
az vm restart -g MyResourceGroup -n MyVm
```

- Cross-platform command-line program
- Runs on Linux, macOS, and Windows
- Can be used interactively or through scripts
- Commands are structured in *_groups_* and *_subgroups_*
- Use *find* to locate commands
- Use *--help* for more detailed information

Review Resource Manager Benefits

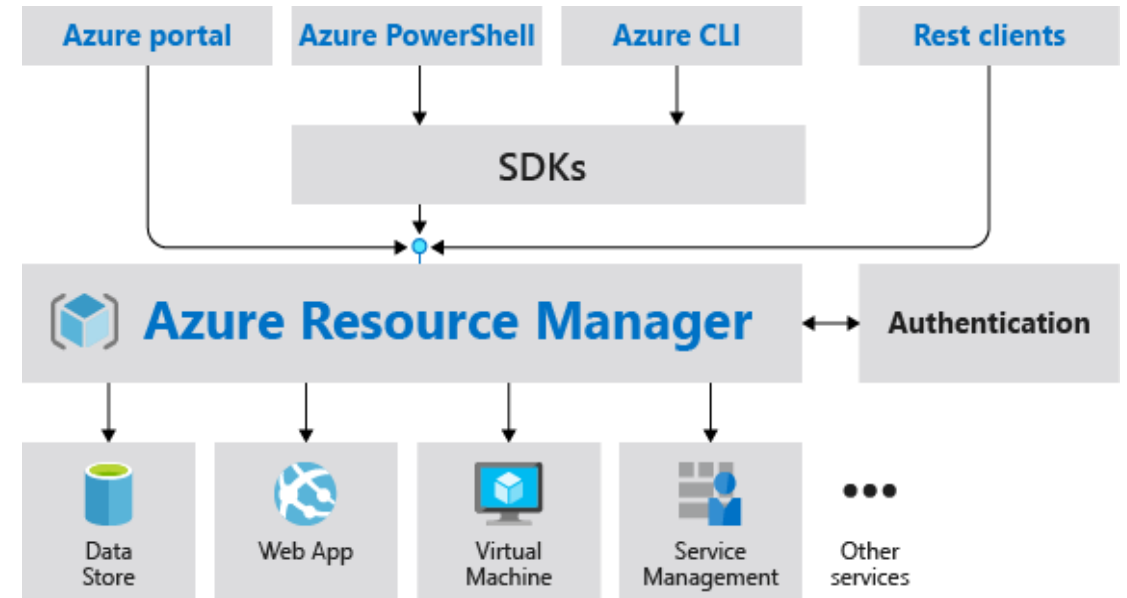
Provides a consistent management layer

Enables you to work with the resources in your solution as a group

Deploy, update, or delete in a single, coordinated operation

Provides security, auditing, and tagging features

Choose the tools and APIs that work best for you



The End