

Desired State Configuration with Azure Automation Service

Create a Virtual Machine on Azure Portal

Create a virtual machine ...

[Help me create a low cost VM](#) [Help me create a VM optimized for high availability](#) [Help me choose the right VM size for my workload](#)

Subscription * ⓘ MSDN Platforms Subscription

Resource group * ⓘ rgdemo [Create new](#)


Instance details

Virtual machine name * ⓘ simplevm

Region * ⓘ (Asia Pacific) South India

Availability options ⓘ No infrastructure redundancy required


Security type ⓘ Trusted launch virtual machines [Configure security features](#)

Image * ⓘ  Windows Server 2022 Datacenter: Azure Edition - x64 Gen2 [See all images](#) | [Configure VM generation](#)

VM architecture ⓘ ☐ Arm64 ☒ x64

Availability options ⓘ No infrastructure redundancy required

Security type ⓘ Trusted launch virtual machines [Configure security features](#)

Image * ⓘ  Windows Server 2022 Datacenter: Azure Edition - x64 Gen2 [See all images](#) | [Configure VM generation](#)

VM architecture ⓘ ☐ Arm64 ☒ x64

i Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ ☐

Size * ⓘ Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹5,830.28/month) [See all sizes](#)

Enable Hibernation ⓘ ☐

i Hibernate is not supported by the size that you have selected. Choose a size that is compatible with Hibernation to enable this feature. [Learn more](#)

Administrator account

Administrator account

Username * ⓘ ✓

Password * ✓

Confirm password * ✓

Inbound port rules

Select which virtual machine network ports are accessible from the public internet. You can specify more limited or granular network access on the Networking tab.

Public inbound ports * ⓘ ☐ None
☒ Allow selected ports

Select inbound ports *

- ☒ HTTP (80)
- ☒ HTTPS (443)
- ☐ SSH (22)
- ☒ RDP (3389)

Rest all settings keep as default.

me >

CreateVm-MicrosoftWindowsServer.WindowsServer-202-20240916162613 | Overview ...



Deployment

× «  Delete  Cancel  Redeploy  Download  Refresh

Overview

Inputs
Outputs
Template

Deployment is in progress

 Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 9/16/2024, 4:29:35 PM
Subscription: [MSDN Platforms Subscription](#) Correlation ID: 22aedaa0-44cc-49e7-a418-496d0d92681f 
Resource group: [rgdemo](#)

Deployment details

Resource	Type	Status	Operation details
No results.			

[Give feedback](#)

Create Automation Account

Create an Automation Account ...

Basics Advanced Networking Tags Review + Create

Create an Automation Account to hold the Automation runbooks & configuration used for automating operations and management tasks around Azure and non-Azure resources. You could execute cloud jobs in a serverless environment or use hybrid jobs on your compute via Azure Virtual machines, Arc-enabled servers or Arc-enabled VMWare VM (preview). [Learn more](#)

Subscription * ⓘ

Resource group * ⓘ [Create new](#)

Instance Details

Automation account name * ⓘ ✓

Region * ⓘ

Review + Create

Previous

Next

Navigate to State Configuration under DSC (Configuration Management) . Add a configuration.

Automation Account | State Configuration (DSC) ...

Automation Account

Search ◇ << + Add [Compose configuration](#) [Refresh](#) [Reset filters](#)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Process Automation

Configuration Management

Inventory (Deprecated)

Change tracking (Deprecated)

State configuration (DSC)

Update management

A new configuration service is now generally available, with features like control over drift correction, assigning multiple configurations per machine, and PowerShell support for Linux. [Learn more](#)

Nodes **Configurations** Compiled configurations Gallery

Configuration ⓘ


Configuration	Compiled Configuration Count
No data	

Upload PowerShell File from Local state .

Home > Microsoft.AutomationAccount | Overview > demoautomation | State configuration (DSC) >

Import Configuration

ⓘ Add a new configuration or update an existing one.
Select a file smaller than 1 MB to import.
The configuration name in the script must match the configuration name in the textbox "Name" below.

Configuration file * 

Name *

Description

The contents of File are:

Configuration NewConfig

```
{  
    Node 'localhost'  
    {  
        # Install IIS features  
        WindowsFeature WebServerRole {  
            Name = "Web-Server"  
            Ensure = "Present"  
        }  
    }  
}
```

It will make ensure that web server role on windows server be always present. If not automatically with the help of Automation Account, it will install the web server role.

Under Nodes add VM

demoautomation | State configuration (DSC) ☆ ...

Automation Account

Search

+ Add Compose configuration Refresh Reset filters

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Shared Resources

Related Resources

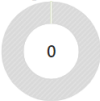
Account Settings

...

A new configuration service is now generally available, with features like control over drift correction, assigning multiple configurations per machine, increased configuration size, and PowerShell support for Linux. [Learn more](#)

Nodes Configurations Compiled configurations Gallery

Configuration status



Failed

0

Not compliant

0

Unresponsive

0

Pending

0

In progress

0

Compliant

0

Nodes ⓘ

Search Node names...

Status ⓘ

6 selected

Node configuration ⓘ

All

VM DS

2 selected

Node	Status	Node configuration	Last seen
No data			

Home > Microsoft.AutomationAccount | Overview > demoautomation | State configuration (DSC) >

Virtual Machines ...

demoautomation

Refresh

Filter by name...

MSDN Platforms Subscription

rgdemo

East US

Virtual Machines	Subscription	Resource group	Location
simplevm	MSDN Platforms Subscription	rgdemo	East US 2

Navigate to Configuration and click on compile.

Home > Automation Accounts > demoautomation | State configuration (DSC) >

NewConfig ...

Configuration

Compile Export Delete

Essentials

Resource group (move) : rgdemo

Location : East US

Subscription ID : c5f6b777-a115-4e13-86f4-e1af2e819314

Last published : 9/16/2024, 4:34 PM

Account : demoautomation

Subscription (move) : MSDN Platforms S

Status : Published

Configuration source : [View configuration](#)

Compilation jobs Node configurations

Created	Status	Last seen
No compilation jobs found.		

Select VM and connect to it.

Home > Microsoft.AutomationAccount | Overview > demoautomation | State configuration (DSC) > Virtual Machines >

simplevm

Virtual machine

+ Connect

Refresh

Learn more

Not connected

Power State

VM running

OS

Windows

Status

Not connected

Complete the registration.Change the configuration Mode to ApplyandAutoCorrect.

Registration

Registration key *

Primary key

Secondary key

Node configuration name ⓘ

NewConfig.localhost

Refresh Frequency * ⓘ

30

Configuration Mode Frequency * ⓘ

15

Configuration Mode ⓘ

ApplyAndAutoCorrect

Allow Module Override ⓘ

☒

Reboot Node if Needed ⓘ

☒

Action after Reboot ⓘ

ContinueConfiguration

OK

simplevm

Virtual machine

+ Connect Refresh Learn more

Connecting...

Power State

VM running

OS

Windows

Status

Connecting

simplevm

Virtual machine

+ Connect Refresh Learn more

Power State

VM running

OS

Windows

Status

Connected

Extension Version

2.83.5

Registration url

https://2dc96dad-6f98-42ce-862f-275167613a9c.agentsvc.eus.azure-automation.net/accounts/2dc96dad-6f98-42ce-862f-275167613a9c

Refresh Frequency

30

demoautomation | State configuration (DSC)

Automation Account

Search

+ Add Compose configuration Refresh Reset filters

Overview

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Tags

Diagnose and solve problems

Process Automation

Configuration Management

Inventory (Deprecated)

Change tracking (Deprecated)

State configuration (DSC)

Update management

A new configuration service is now generally available, with features like control over drift correction, assigning multiple configurations per machine, increased configuration size, machine resource ID in reports, and PowerShell support for Linux. [Learn more](#)

Nodes Configurations Compiled configurations Gallery

Node configuration

Node Configuration	Configuration	Node Count	Created	Last Modified	
NewConfig.localhost	NewConfig	1	9/16/2024, 5:16 PM	9/16/2024, 5:16 PM	...

Showing 1 - 1 of 1 results.

In VM, you can verify the DSC extension.

Home > Virtual machines > simplevm

simplevm | Extensions + applications ☆ ...

Virtual machine

Search

What extensions can help me keep my virtual machine secure? What is the difference between VM applications and extensions? What are the types of VM extensions available?

Extensions VM Applications

+ Add Refresh Feedback

Search to filter items...

Showing all 1 items

Name	Type	Version	Status	Automatic upgrade s
Microsoft.PowerShell.DSC	Microsoft.PowerShell.DSC	2.*	Provisioning succeeded	Not supported

Take the RDP of windows VM

> Virtual machines >

simplevm ☆ ☆ ...

Virtual machine

Search

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile Feedback CLI / PS

Essentials

Resource group (move) : [rgdemo](#)

Status : Running

Location : East US 2

Subscription (move) : [MSDN Platforms Subscription](#)

Subscription ID : c5f6b777-a115-4e13-86f4-e1af2e819314

Operating system : Windows (Windows Server 2022 Datacenter Azure Ed

Size : Standard D2s v3 (2 vcpus, 8 GiB memory)

Public IP address : [20.122.74.4](#)

Virtual network/subnet : [simplevm-vnet/default](#)

DNS name : [Not configured](#)

Health state : -

Time created : 9/16/2024, 10:59 AM UTC

Tags (edit) : [Add tags](#)

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

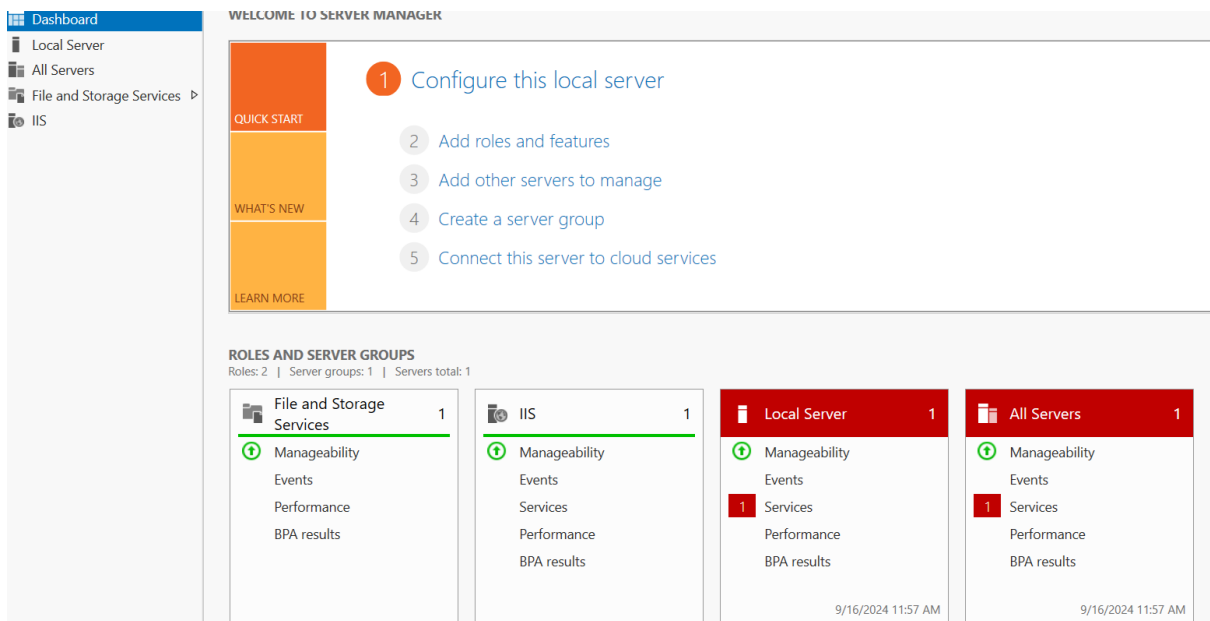
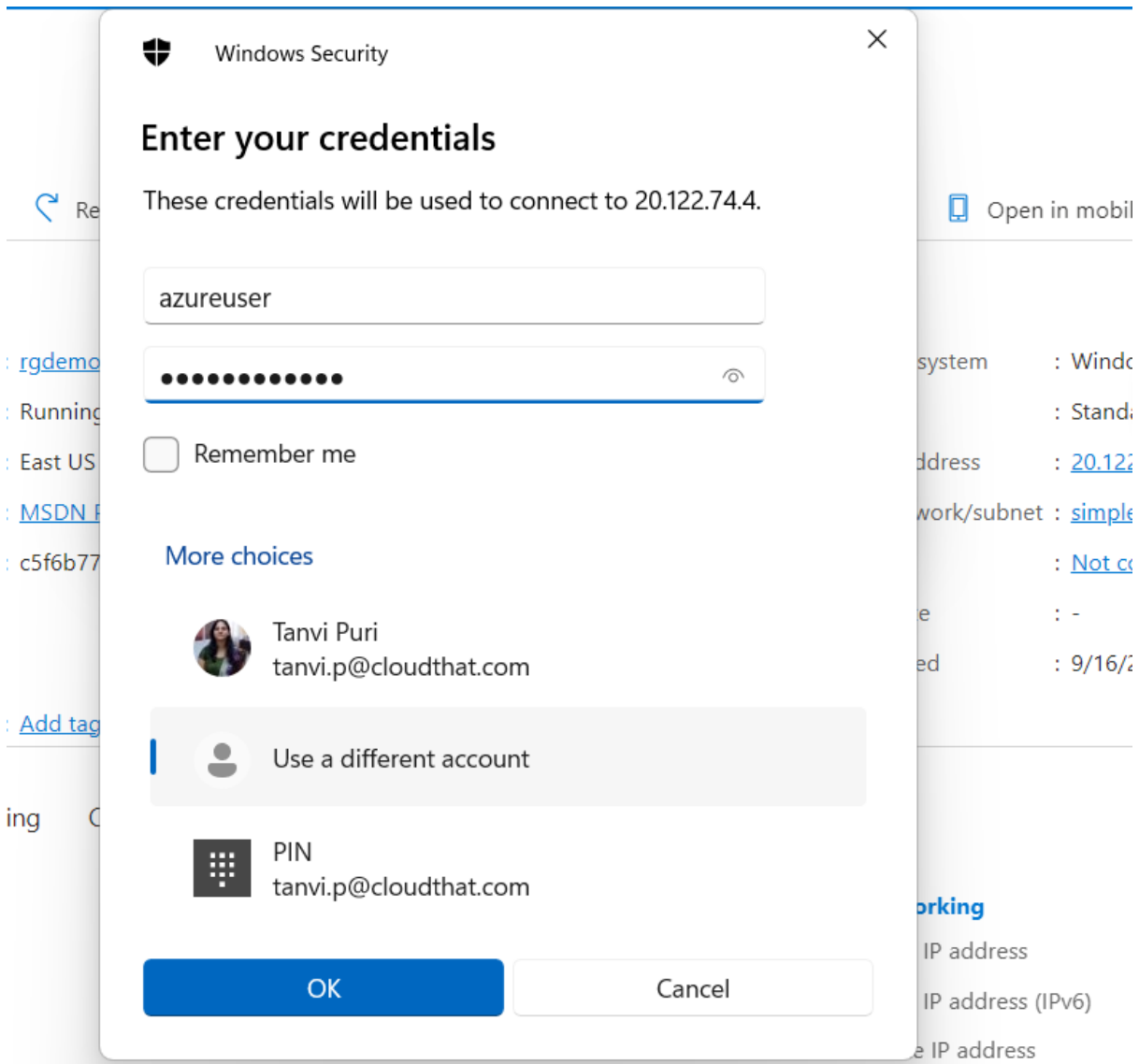
Computer name : simplevm

Operating system : Windows (Windows Server 2022 Datacenter Azure Edition)

Networking

Public IP address : [20.122.74.4](#) (Network interface [simplevm764](#)

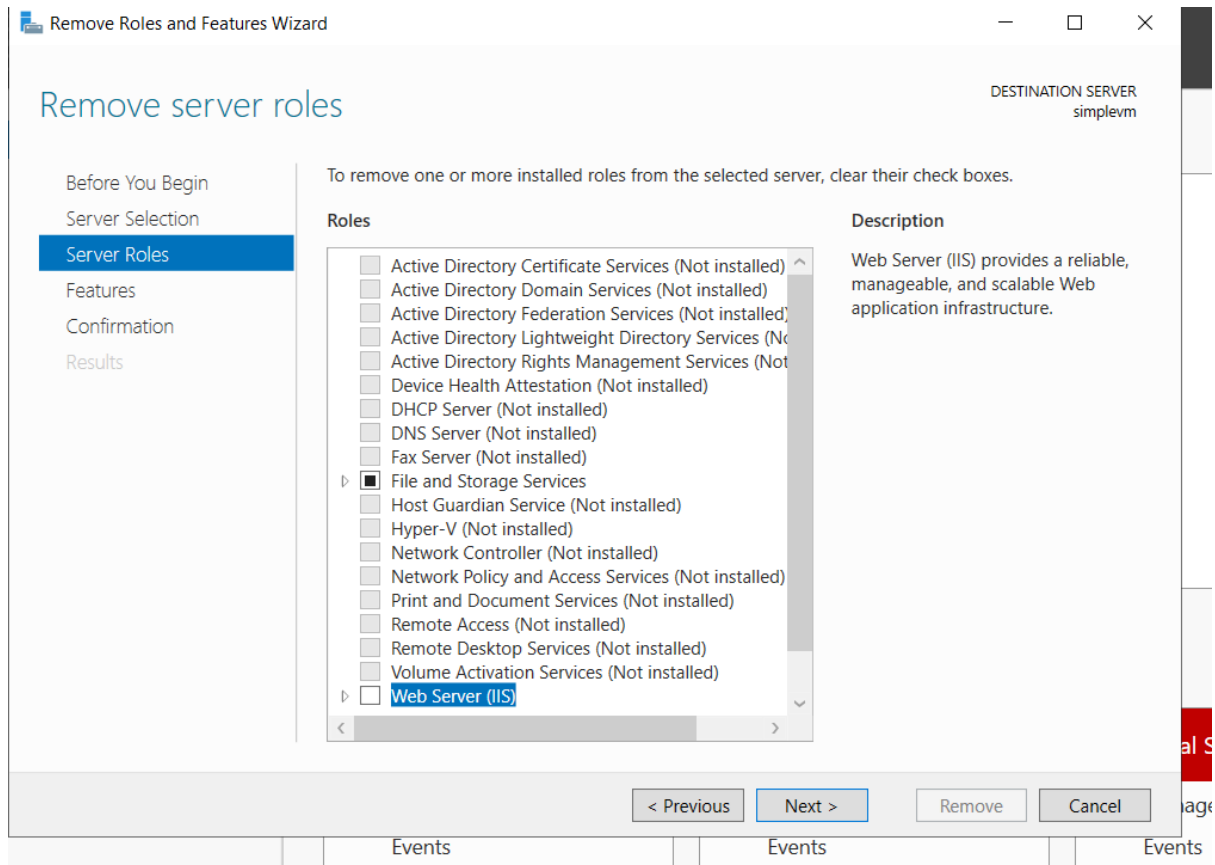
Public IP address (IPv6) : -



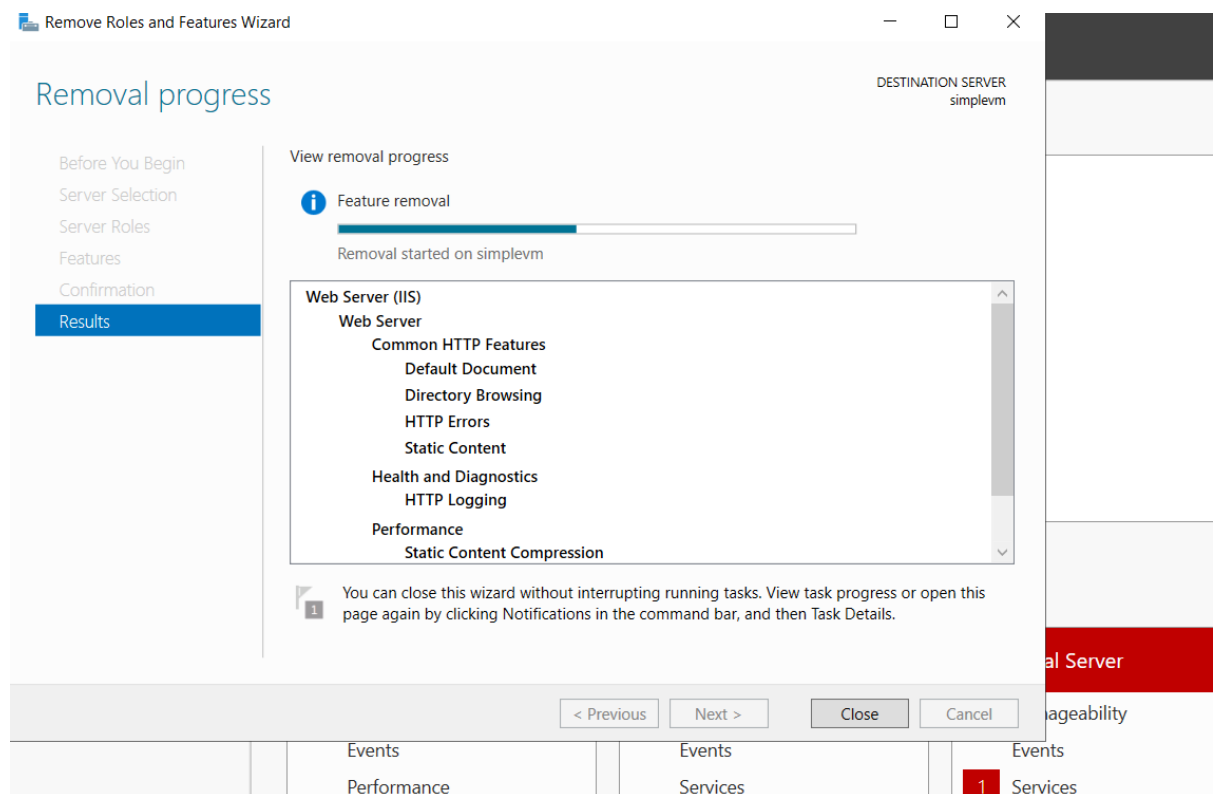
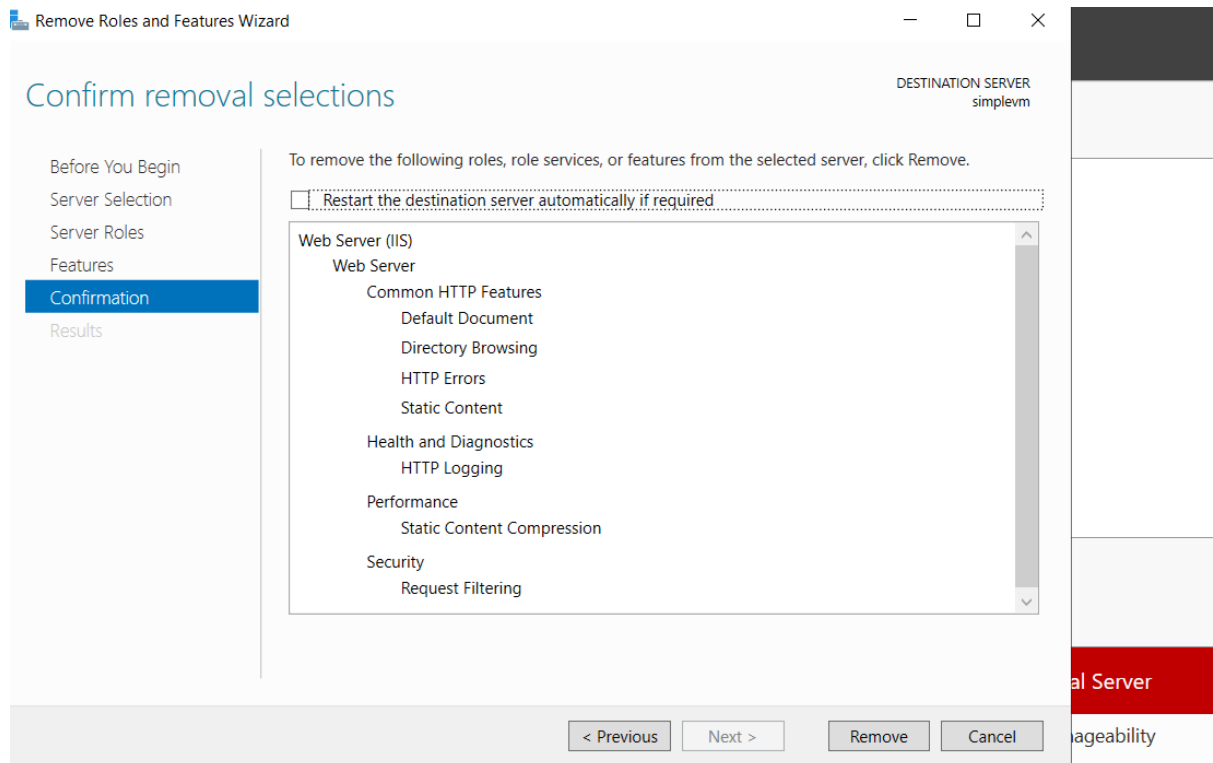
Web Server Role was installed.

Now Remove the web server role manually.

Under Manage click on Remove Roles and Feature. Disable web server role.



Click on Remove.



Local Server

All Servers

File and Storage Services ▸

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

ROLES AND SERVER GROUPS

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

File and Storage Services1

1 Manageability

Events

Performance

BPA results

9/16/2024 12:02 PM

Local Server1

1 Manageability

Events

Services

Performance

BPA results

9/16/2024 12:02 PM

All Servers1

1 Manageability

Events

Services

Performance

BPA results

9/16/2024 12:02 PM

After sometime you will be able to see the web server role again. It was due to Automation DSC.

Dashboard

Local Server

All Servers

File and Storage Services ▸

IIS

WELCOME TO SERVER MANAGER

QUICK START

WHAT'S NEW

LEARN MORE

1

Configure this local server

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ROLES AND SERVER GROUPS

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

File and Storage Services1

Manageability

Events

Performance

BPA results

IIS1

Manageability

Events

Services

Performance

BPA results

Local Server1

Manageability

Events

Services1

Performance

BPA results

9/16/2024 11:57 AM

All Servers1

Manageability

Events

Services1

Performance

BPA results

9/16/2024 11:57 AM