


VIRTUAL MACHINE SCALE SET – CUSTOM SCRIPTS

1. Log in to Azure Portal. Go to create resources.
2. There you need to search Virtual machine scale set, click on create.
3. Select your resources group, give your scale set a name.
4. Then select orchestration as uniform.
5. This time select image as Windows Server.
6. Now select size, then give it a user name and password. Now move to next page.

Create a virtual machine scale set ...

Basics Spot Disks Networking Scaling Management Health Advanced Tags Review + create

Azure virtual machine scale sets let you create and manage a group of load balanced VMs. The number of VM instances can automatically increase or decrease in response to demand or a defined schedule. Scale sets provide high availability to your applications, and allow you to centrally manage, configure, and update a large number of VMs.

[Learn more about virtual machine scale sets](#) 

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription *	<div>Free Trial</div>
Resource group *	<div>app-grp</div> <div>Create new</div>

Scale set details

Virtual machine scale set name *	<div>scaleset</div>
Region *	<div>(Asia Pacific) Central India</div>
Availability zone ⓘ	<div>None</div>

Orchestration mode * ⓘ

☐ **Flexible:** achieve high availability at scale with identical or multiple virtual machine types

☒ **Uniform:** optimized for large scale stateless workloads with identical instances

Security type ⓘ

Standard

Instance details

Image * ⓘ

Windows Server 2022 Datacenter - x64 Gen2 (free services eligible)

See all images | Configure VM generation

This image is compatible with additional security features. [Click here to swap to the Trusted launch security type.](#)

VM architecture ⓘ

☐ Arm64

☒ x64

Arm64 is not supported with the selected image.

Run with Azure Spot discount ⓘ

☐

Size * ⓘ

Standard_D2s_v3 - 2 vcpus, 8 GiB memory (₹11,294.05/month)

See all sizes

Administrator account

Username * ⓘ

demour

Password * ⓘ

.....

Confirm password * ⓘ

.....

Review + create

< Previous

Next : Spot >

- On the networking section you will see that a network interface has been created.
- Now you need to click **pencil** like option in the network interface option.
- This will take you to a new window to select or change few options as per your choice.

Network interface

A network interface enables an Azure virtual machine to communicate with internet, Azure, and on-premises resources. A VM can have one or more network interfaces.

[+ Create new nic](#) [Delete](#)

<input type="checkbox"/>	NAME	CREATE PUBLI...	SUBNET	NETWORK SECU...	ACCELERATED N...	
<input type="checkbox"/>	app-grp-vnet-nic01	No	default (10.0.0.0/20)	Basic	Off	✎

- There you need to keep these settings to default.

Network interface

Name *

app-grp-vnet-nic01

Virtual network ⓘ

app-grp-vnet

Subnet * ⓘ

default (10.0.0.0/20)

NIC network security group ⓘ

☐

None

☒

Basic

☐

Advanced

11. Then in public inbound ports click on Allow selected ports.

12. Then select HTTP (80) and RDP (3389).

Select inbound ports *

HTTP (80), RDP (3389)

☒

HTTP (80)

☐

HTTPS (443)

☐

SSH (22)

☒

RDP (3389)

13. Now enable public IP address and click on OK.

Public IP address ⓘ

Disabled

Enabled

Accelerated networking ⓘ

Disabled

Enabled

OK

Cancel

14. You should jump to review page and create you scale set.

15. Wait for it to get deployed.

✓ Your deployment is complete



Deployment name : CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20231227213810
Subscription : [Free Trial](#)
Resource group : [app-grp](#)

Start time : 12/27/2023, 9:46:02 PM
Correlation ID : 550d383d-d8d9-40d4-9a2c-78e9fd813915

> Deployment details

✓ Next steps

[Go to resource](#)

16. Now go to resources.

17. Once you are on the scale set page.

The screenshot shows the Azure portal interface for a 'Virtual machine scale set' named 'scaleset'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Instances, Networking, Settings, Disks, Extensions + applications, Operating system, Configuration, Properties, Locks, Availability + scale, Scaling, Size, Security, Identity, Microsoft Defender for Cloud, and Operations. The main content area is divided into 'Essentials' and 'Properties' tabs. The 'Essentials' tab shows details like Resource group (mosa), Status (2 out of 2 succeeded), Location (Central India), Subscription (Free Trial), and Subscription ID. The 'Properties' tab is further divided into 'Virtual machine profile' and 'Availability + scaling'. The 'Virtual machine profile' section lists details such as Operating system (Windows), Image publisher (MicrosoftWindowsServer), Image offer (WindowsServer), Image plan (2022-datacenter-g2), Capacity reservation group, and Hibernation (Disabled). The 'Availability + scaling' section lists details like Availability zone, Proximity placement group, Colocation status, Host group, Instance count (2), Scaling (Manual), Scale-In policy (Default), and Overprovisioning (Not enabled). The 'Networking' section shows Public IP address, Public IP address (IPv6), and Virtual network/subnet (app-grp-vnet/default). The 'Size' section shows Standard_D2s_v3, 2 vCPUs, and 8 GiB RAM. The 'Disk' section shows OS disk (Premium SSD LRS), Encryption at host (Disabled), Ultra disk compatibility (Disabled), Data disks (0), Managed disks (Enabled), and Ephemeral OS disk (N/A).

18. If you go to the instances. You can see both of the instances are in running state.

Start Restart Stop Hibernate (preview) Reimage Delete Detach Upgrade Refresh					
Search virtual machine instances					
Instance	Computer name	Type	Status	Provisioning state	
<input type="checkbox"/> scaleset_450bc1bf	scalesetm5OHXB	VM	Running	Succeeded	
<input type="checkbox"/> scaleset_cbcdb0a6	scalesetmHG6SA	VM	Running	Succeeded	

19. Now you need to Extensions + application page you can find it under the settings option. Open it.

The screenshot shows the 'Settings' page for the 'scaleset' resource. The left sidebar contains navigation options like Disks, Extensions + applications, and VM Applications. The main content area is titled 'Settings' and shows the 'Extensions + applications' section. Below this, there is a table with columns: Name, Type, Version, and Automatic upgrade status. The table is currently empty, and a message at the bottom states 'No resource extensions found.'

20. Here you need to upload an extension. You might have the powershell file for windows server in your storage vault.

21. If not then you can get that file from GitHub or you can create that file yourself by using this code.

```
import-module servermanager
```

```
add-windowsfeature web-server -includeallsubfeature
```

Install an Extension ...

Custom script extension



Custom script extension

Microsoft Corp.

Custom script handler extension for windows

Load more

Configure Custom script extension Extension ...

Create

Script file (Required) *

"IIS.ps1"



Browse

Arguments (Optional)

22. Once the deployment is complete. Go back to instances.



Microsoft.CustomScriptExtension | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : Microsoft.CustomScriptExtension
Subscription : Free Trial
Resource group : app-grp

Start time : 12/27/2023, 9:57:59 PM
Correlation ID : 29ac4d6b-6d77-43ae-8ba4-147032e829b6

> Deployment details

Next steps

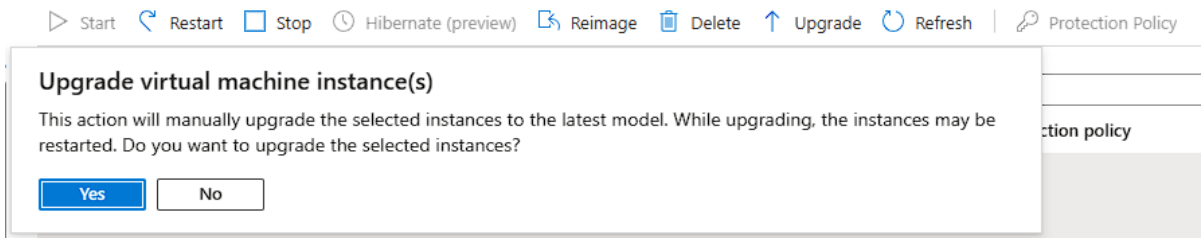
Go to resource

23. Now on the instances if you click on refresh that the latest model says NO.

24. It is because that the instances are not updated yet.

Start Restart Stop Hibernate (preview) Reimage Delete Upgrade Refresh Protection Policy							
Search virtual machine instances							
Instance	Computer name	Status	Protection policy	Provisioning state	Health state	Latest model	
<input type="checkbox"/> scaleset_0	scalesetm000000	Running		Succeeded		No	
<input type="checkbox"/> scaleset_1	scalesetm000001	Running		Succeeded		No	

25. For that you need to select both of the instances and click on Upgrade.

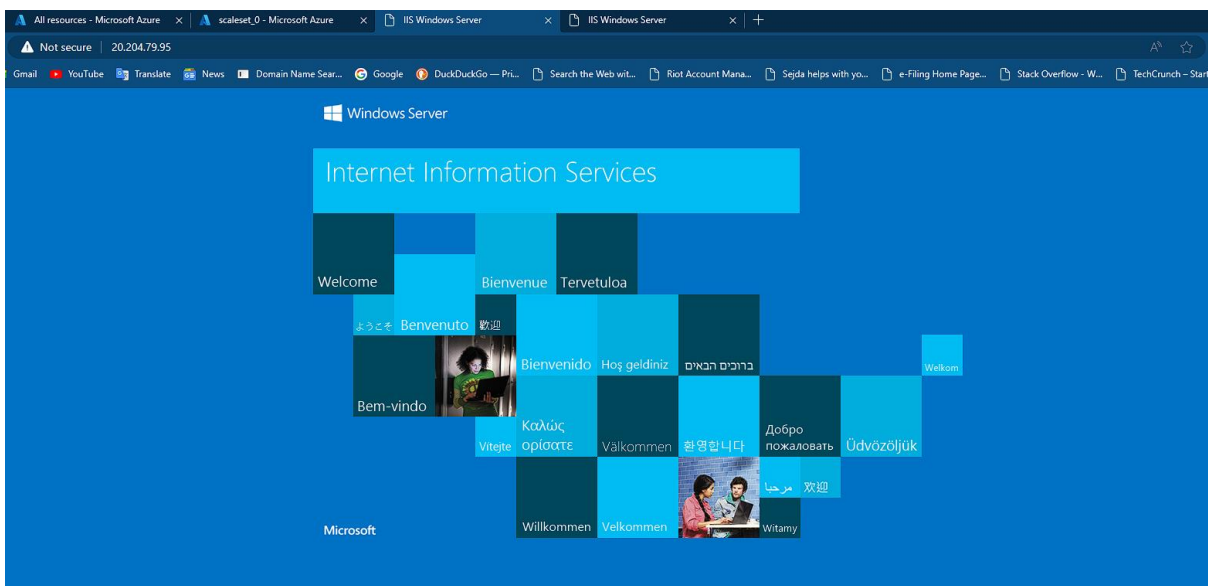


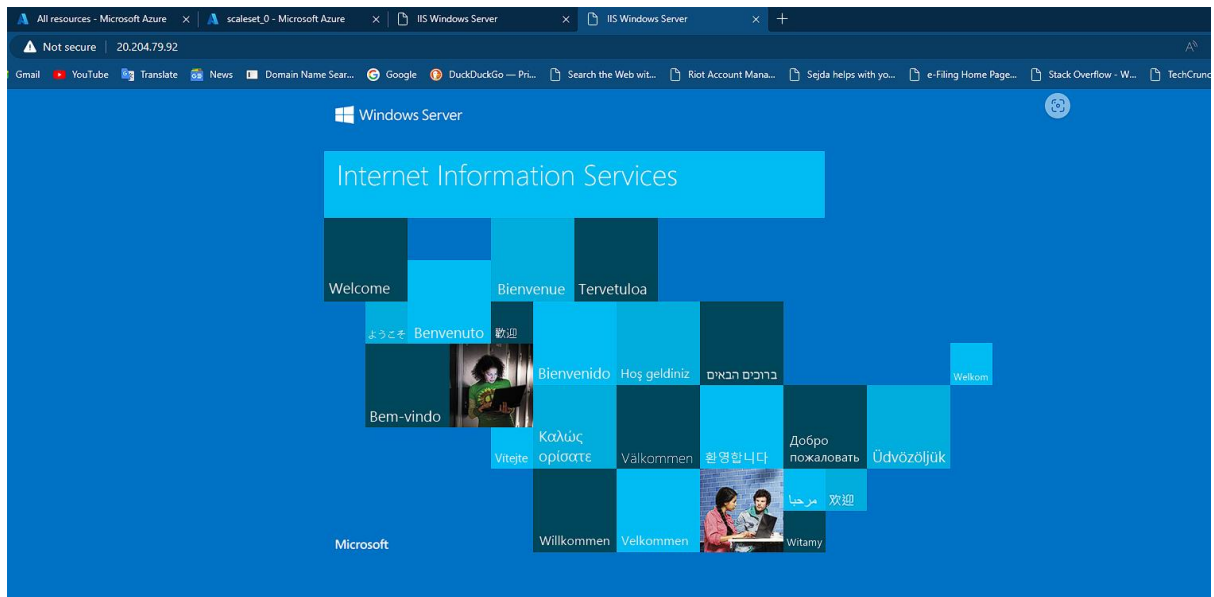
26. The upgradation of the instances might take 4-5 minutes.

27. Once the upgrade is complete you can see that the latest model is set to yes.

Start Restart Stop Hibernate (preview) Reimage Delete Upgrade Refresh Protection Policy							
Search virtual machine instances							
Instance	Computer name	Status	Protection policy	Provisioning state	Health state	Latest model	
<input type="checkbox"/> scaleset_0	scalesetm000000	Running		Succeeded		Yes	
<input type="checkbox"/> scaleset_1	scalesetm000001	Running		Succeeded		Yes	

28. Now you have to copy the public IP of both the instances and paste it in a new tab.





NOW DELETE ALL THE RESOURCES