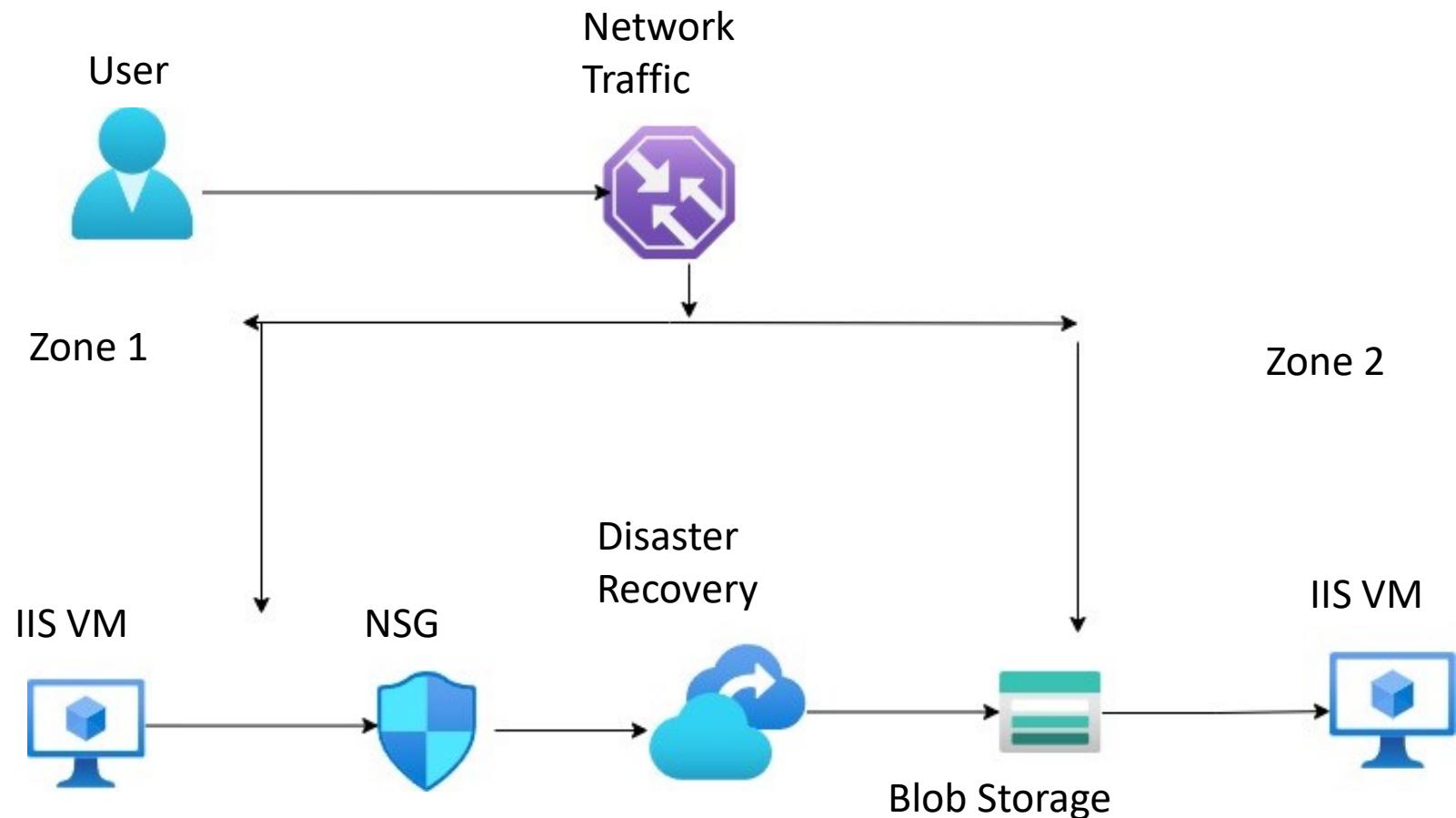


Project 1 – Provisioning of Web server Virtual Machine with Disaster recovery

1. Creation of availability set named “**Sales Web Tier**”
2. Creation of Windows Server 2016 VM in East US region by choosing existing availability set “**Sales Web Tier**”. (you can choose different region also)
3. Installation of IIS Web Server role using custom extension after creation of VM
4. Creation of Network Security Group rule to allow HTTP communication at port 80 & 443. Also, communication for RDP port 3389 to be allowed. NSG should be associated at subnet level.
5. Configuring replication of VM to secondary Azure region West US (you can choose different region also) for high availability
6. Architecture diagram of Disaster recovery

Architecture Diagram of Disaster Recovery



Go to Virtual Machine page and click the create button. Now choose the East US and scroll down page.

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The top navigation bar includes 'Microsoft Azure', 'Upgrade', and a search bar. The main title is 'Create a virtual machine'. A warning message in a blue box states: 'This subscription may not be eligible to deploy VMs of certain sizes in certain regions.' The 'Project details' section shows a selected subscription 'Free Trial' and a resource group 'AZ104Project'. The 'Instance details' section includes fields for 'Virtual machine name' (set to 'SaleswebTier'), 'Region' (set to '(US) East US'), 'Availability options' (set to 'No infrastructure redundancy required'), 'Security type' (set to 'Standard'), and 'Image' (set to 'Windows Server 2016 Datacenter - x64 Gen2 (free services eligible)'). At the bottom, there are buttons for 'Review + create' and 'Next : Disks >'. The taskbar at the bottom of the screen shows various pinned icons and system status information like battery level (93%), weather (30°C Mostly cloudy), and system time (10:11 AM 8/10/2023).

Give a name and password. Select authorization port HTTP,HTTPS,&RDP

A Create a virtual machine - Microsoft Azure +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+) ruchita2010@outlook.com... DEFAULT DIRECTORY (RUCHITA2)

Home > Virtual machines >

Create a virtual machine

Size * Standard_B1s - 1 vcpu, 1 GiB memory (₹802.62/month) (free services eligible) See all sizes

Administrator account

Username * admina 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.

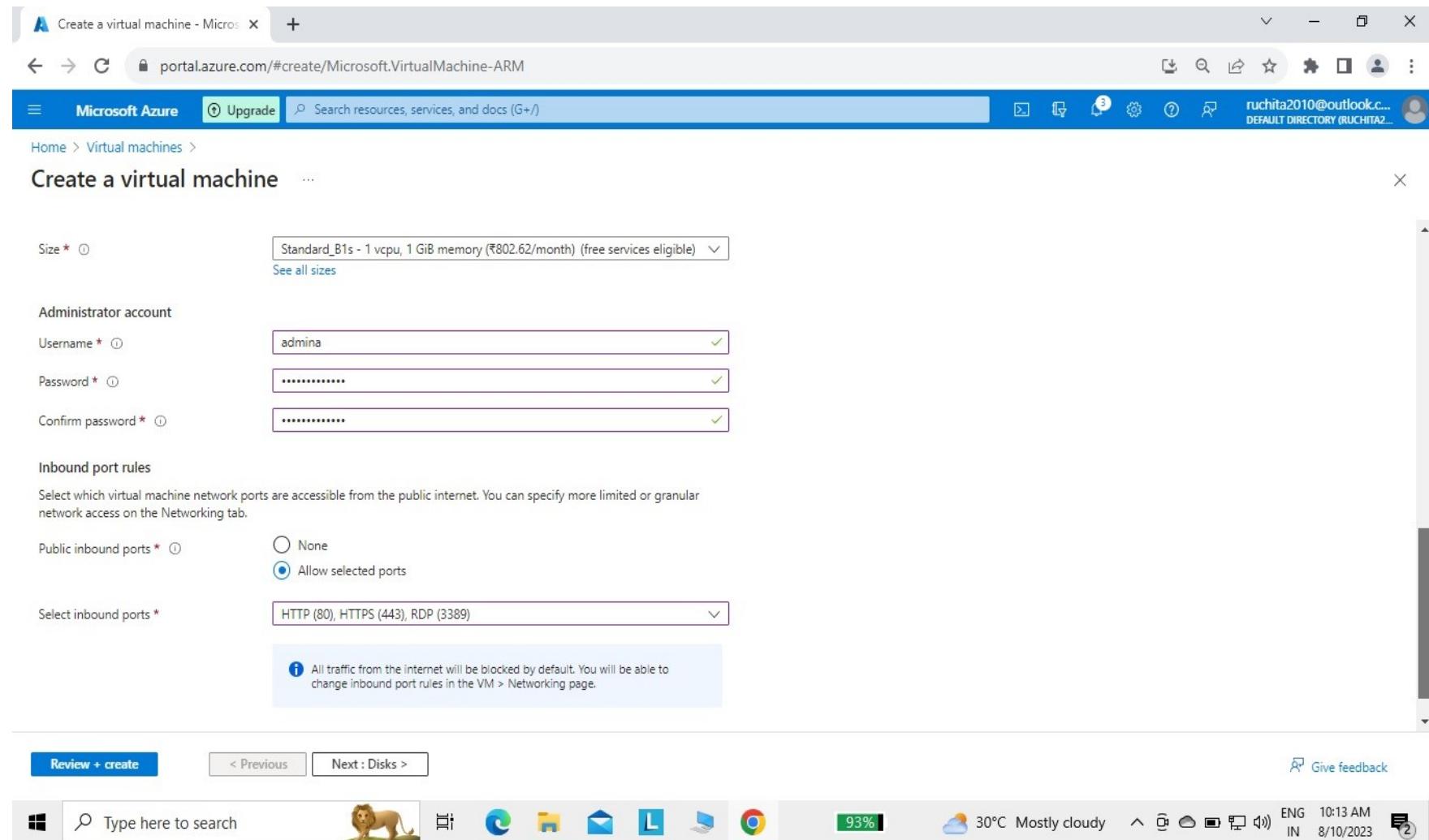
Public inbound ports * Allow selected ports

Select inbound ports * HTTP (80), HTTPS (443), RDP (3389)

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Review + create < Previous Next : Disks > Give feedback

Type here to search (Windows icon) File Explorer Mail Edge Google Chrome 93% 30°C Mostly cloudy IN 10:13 AM 8/10/2023 (2)



Go to the network page and create the virtual network and configure

The screenshot shows the Microsoft Azure portal interface for creating a virtual network. The top navigation bar includes the title 'Create virtual network - Microsoft' and the URL 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The main content area is titled 'Create virtual network'.

Virtual network settings:

- Name:** sales1
- Address space:** 10.0.0.0/16 (selected)
- Overlap:** VM01-vnet (10.0.0.0/16) (None)

Subnets:

- Subnet name:** sales
- Address range:** 10.0.0.0/24
- Addresses:** 10.0.0.0 - 10.0.0.255 (256 addresses)
- Overlap:** None

Network interface configuration:

- Virtual network:** VM02-vnet
- Subnet:** default (10.2.0.0/24)
- Public IP:** (new) SaleswebTier-ip
- NIC network security group:** None (selected)

A tooltip message at the bottom left states: "The selected subnet 'default (10.2.0.0/24)' is already associated to security group 'aznetworkproject'. We recommend managing configuration centrally."

At the bottom, there are buttons for 'Review + create' (highlighted in blue), 'OK', and 'Discard'.

The taskbar at the bottom of the screen shows the Windows Start button, a search bar with a lion icon, and various pinned application icons (File Explorer, Edge, Mail, OneDrive, Google Chrome). The system tray displays battery level (92%), weather (30°C Mostly cloudy), system status (ENG IN), and date/time (10:16 AM 8/10/2023).

Now click Review + create button

A Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+)

ruchita2010@outlook.com DEFAULT DIRECTORY (RUCHITA_)

Home > Virtual machines >

Create a virtual machine

Running final validation...

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard B1s by Microsoft

Subscription credits apply ⓘ

1.0995 INR/hr

[Terms of use](#) | [Privacy policy](#)

Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Create < Previous Next > Download a template for automation Give feedback

Type here to search

91% 30°C Mostly cloudy 10:18 AM 8/10/2023 ENG IN

Now verify all configuration is ok or not.

A Create a virtual machine - Microsoft Azure +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+) ruchita2010@outlook.com... DEFAULT DIRECTORY (RUCHITA2...)

Home > Virtual machines >

Create a virtual machine

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard B1s by Microsoft Subscription credits apply ⓘ
1.0995 INR/hr
[Pricing for other VM sizes](#)

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Create < Previous Next > Download a template for automation Give feedback

Type here to search (Windows icon) 90% 30°C Mostly cloudy ENG IN 10:19 AM 8/10/2023 (Notification icon)

Now click create button to proceed the deployment the VM.

A Create a virtual machine - Microsoft Azure

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+)

ruchita2010@outlook.com DEFAULT DIRECTORY (RUCHITA2...)

Home > Virtual machines >

Create a virtual machine

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard B1s by Microsoft

Subscription credits apply ⓘ 1.0995 INR/hr

Terms of use | Privacy policy Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Create < Previous Next > Download a template for automation Give feedback

Type here to search

90% 30°C Mostly cloudy ENG IN 10:20 AM 8/10/2023

Deployment process is start

A CreateVm-MicrosoftWindowsServer... +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c8f1a%2F...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

ruchita2010@outlook.c... DEFAULT DIRECTORY (RUCHITA2...)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230810101101 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/08/2023, 10:20:26
Subscription: Free Trial Correlation ID: ad135287-5586-4776-b196-704662bd0634

Deployment details

Resource	Type	Status	Operation details
SaleswebTier	Microsoft.Compute/virtualMachi...	Created	Operation details
saleswebtier851	Microsoft.Network/networkInterf...	Created	Operation details
sales1	Microsoft.Network/virtualNetwor...	OK	Operation details
SaleswebTier-ip	Microsoft.Network/publicIpAddr...	OK	Operation details
SaleswebTiernsg359	Microsoft.Network/networkSecur...	OK	Operation details
BackupVaultAndOrPolicy-defaultVa...	Microsoft.Resources/deployments	OK	Operation details

Give feedback Tell us about your experience with deployment

https://portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a

90% 30°C Mostly cloudy ENG IN 10:20 AM 8/10/2023

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and be your first line of support.
Find an Azure expert >

Deployment process is complete and VM is ready.

S CreateVm-MicrosoftWindowsServer... +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c8f1a%2F...

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

ruchita2010@outlook.c... DEFAULT DIRECTORY (RUCHITA2)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-202308101101 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/08/2023, 10:20:26
Subscription: Free Trial Correlation ID: ad135287-5586-4776-b196-704662bd0634

Deployment details

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

Go to resource Create another VM

Give feedback Tell us about your experience with deployment

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Type here to search

89%

30°C Mostly cloudy

ENG IN 10:21 AM 8/10/2023

Go to VM page and scroll down. Then click configuration button for set domain.

The screenshot shows the Microsoft Azure portal interface. The title bar indicates the window is for 'SaleswebTier-ip - Microsoft Azure'. The URL in the address bar is 'portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourceGroups/...'. The top navigation bar includes 'Microsoft Azure', 'Upgrade', and a search bar. The user is signed in as 'ruchita2010@outlook.com'.

The main content area shows the 'SaleswebTier-ip | Configuration' page. On the left, there is a sidebar with various tabs: Overview, Activity log, Access control (IAM), Tags, Settings, Configuration (which is selected), Properties, and Locks. Below these are sections for Monitoring (Insights, Alerts, Metrics, Diagnostic settings) and Automation (Tasks (preview), Export template).

The main configuration pane shows the following details:

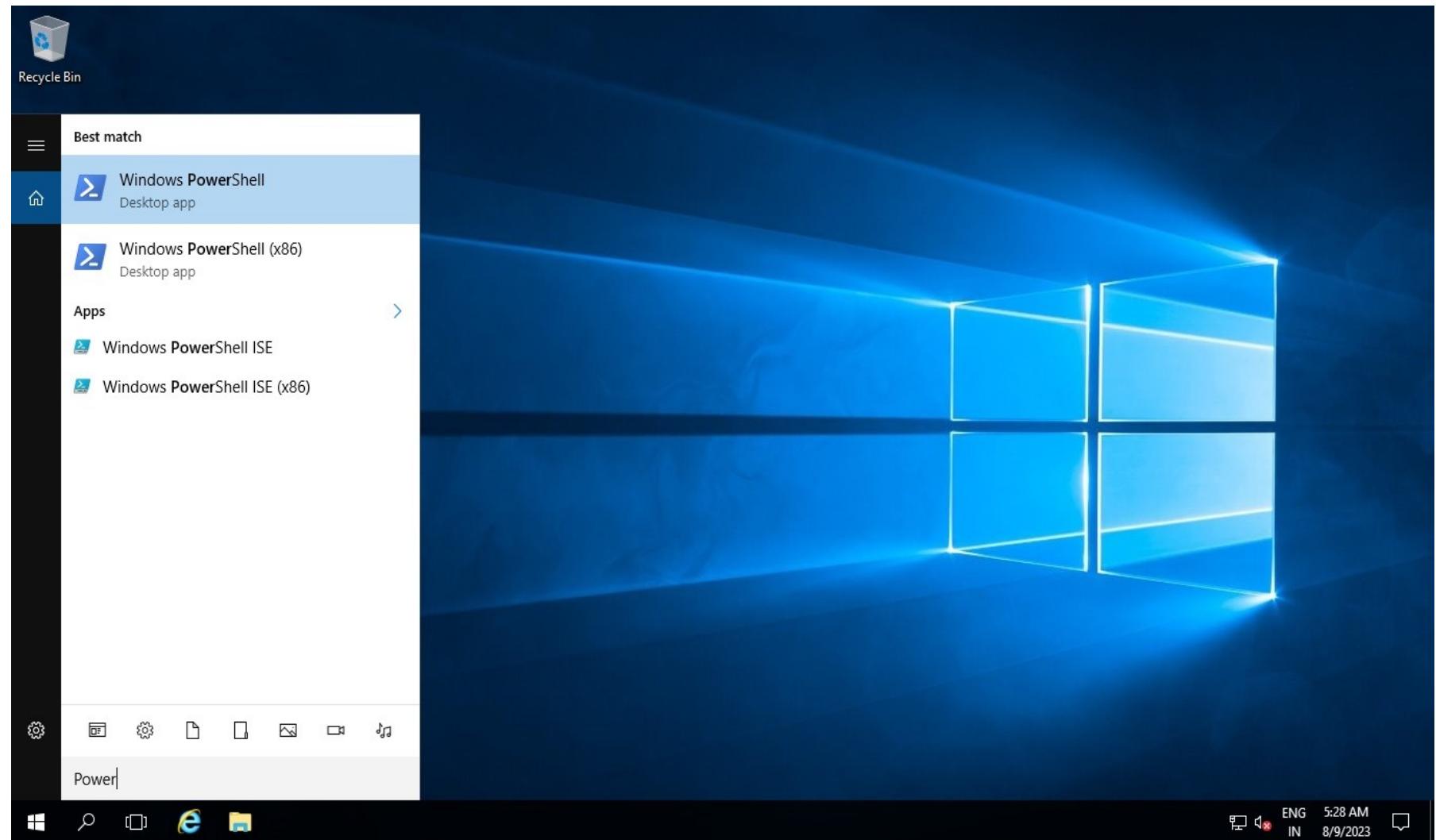
- IP address assignment:** Static
- IP address:** 20.127.15.170
- Idle timeout (minutes):** A slider set to 4.
- DNS name label (optional):** saleswebtier
- A note: "You can use the IP address as your 'A' DNS record or DNS label as your 'CNAME' record. [Learn more about adding a custom domain to this IP address](#)".
- Alias record sets:** A section with a link to "Create an alias record in Azure DNS" and a "+ Create alias record" button.
- Subscription:** No results.

At the bottom of the configuration pane, there are 'Save', 'Discard', and 'Refresh' buttons. The status bar at the bottom of the browser window shows the date and time as '10:38 AM 8/10/2023'.

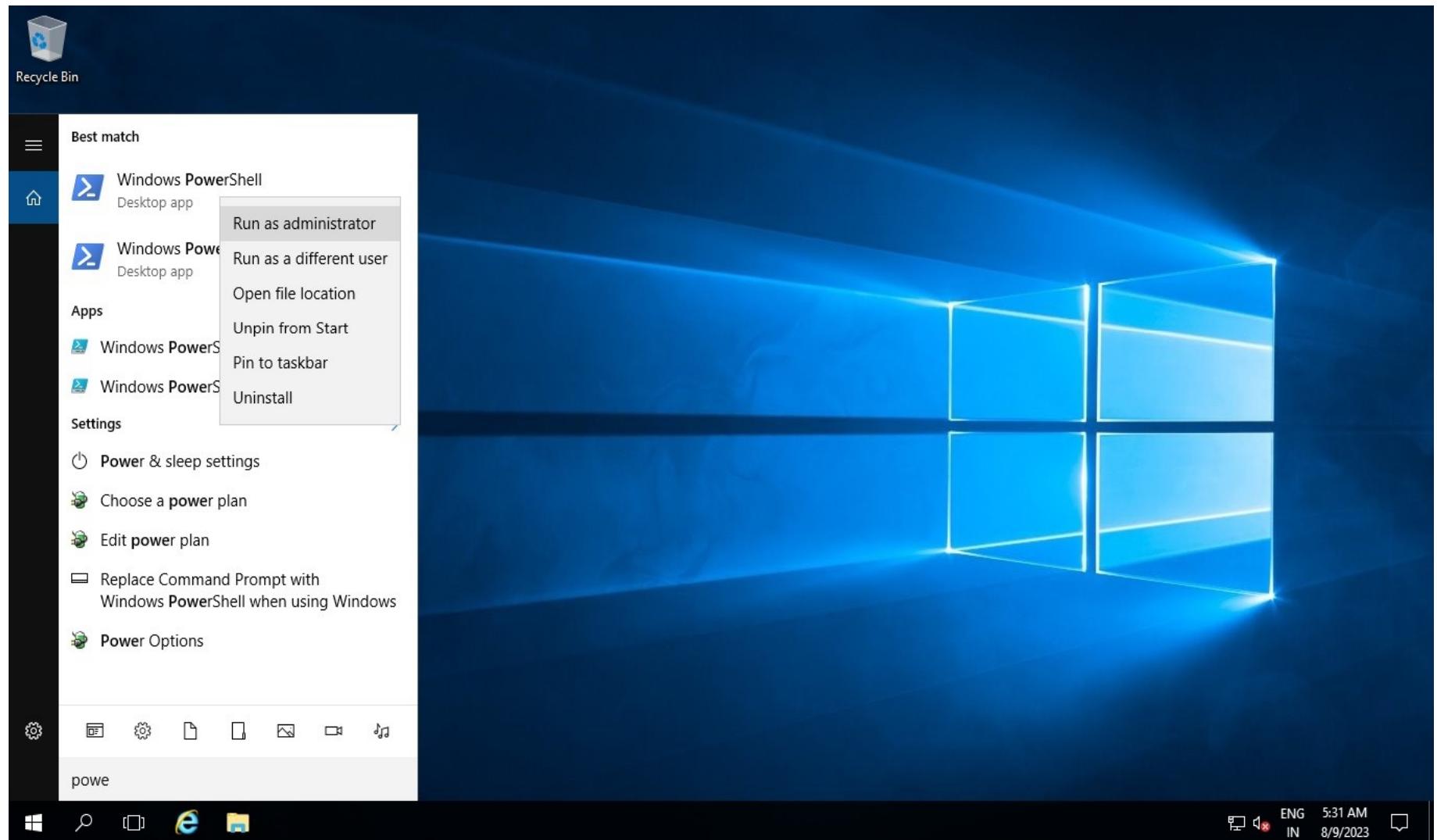
And then click save button and save configuration.

The screenshot shows the Microsoft Azure portal interface for managing a public IP address. The left sidebar lists various service categories like Overview, Activity log, Access control (IAM), Tags, Configuration, Properties, Locks, Insights, Alerts, Metrics, and Diagnostic settings. The main content area is titled "SaleswebTier-ip | Configuration" under "Public IP address". It displays the IP address assignment as "Static" with the value "20.127.15.170". An "Idle timeout (minutes)" slider is set to 4. A "DNS name label (optional)" field contains "saleswebtier". A tooltip message "Saving changes to public IP address 'SaleswebTier-ip'." is visible in the top right corner. The bottom of the screen shows the Windows taskbar with icons for File Explorer, Edge, Mail, and Google Chrome, along with system status indicators for battery level (84%), temperature (30°C), and system time (10:39 AM, 8/10/2023).

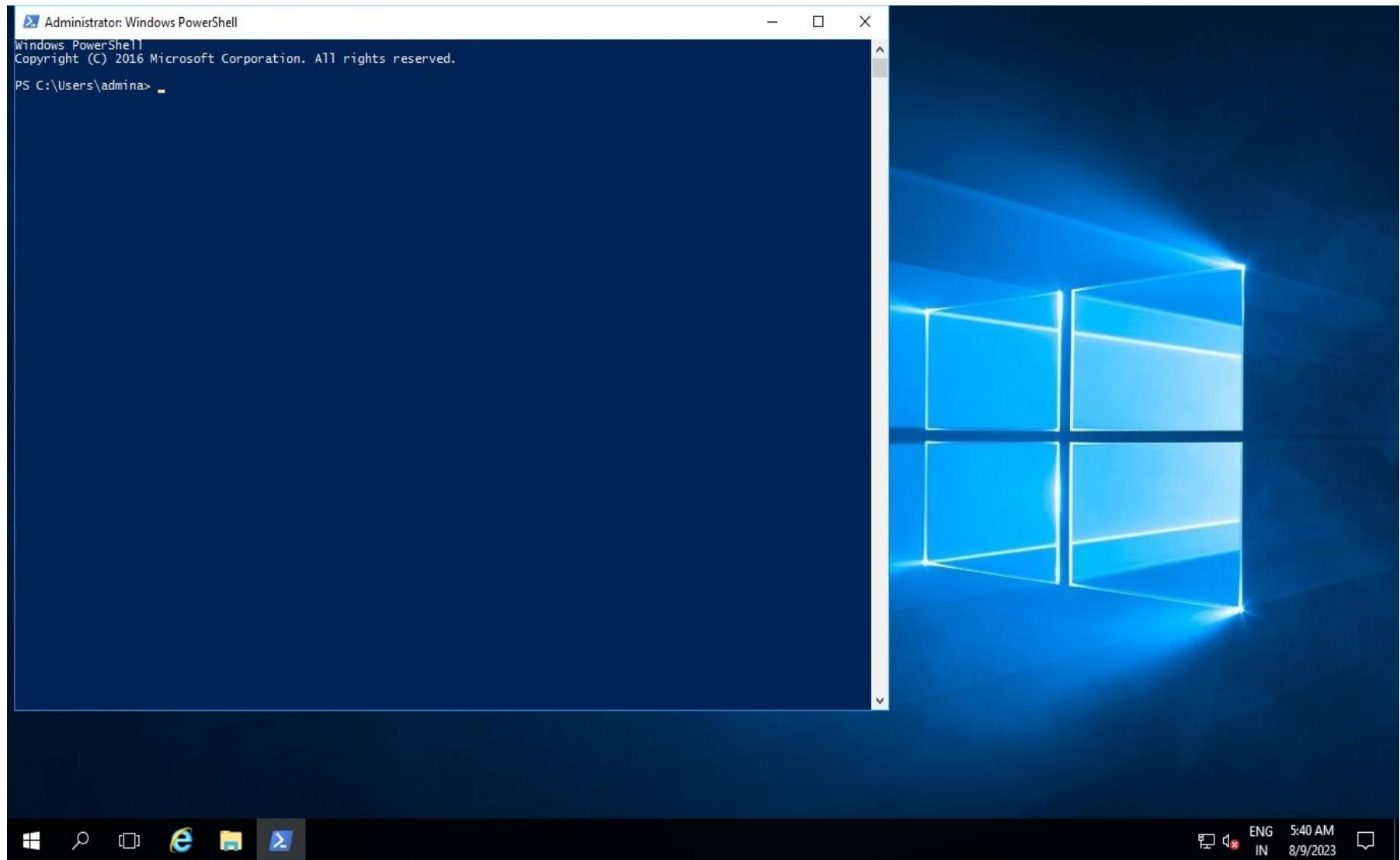
Now open VM and click windows power shell button



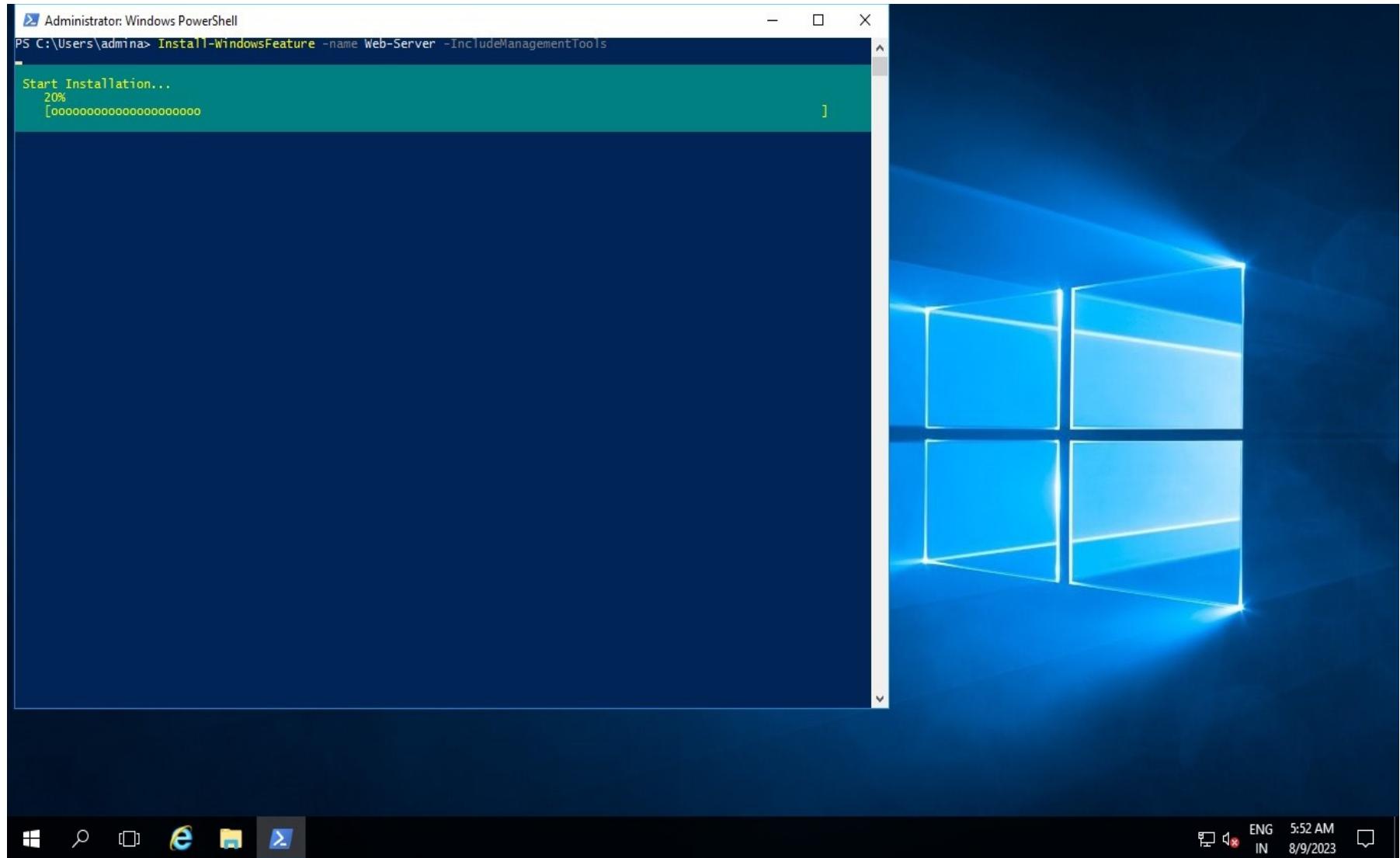
Click Run as administrator button



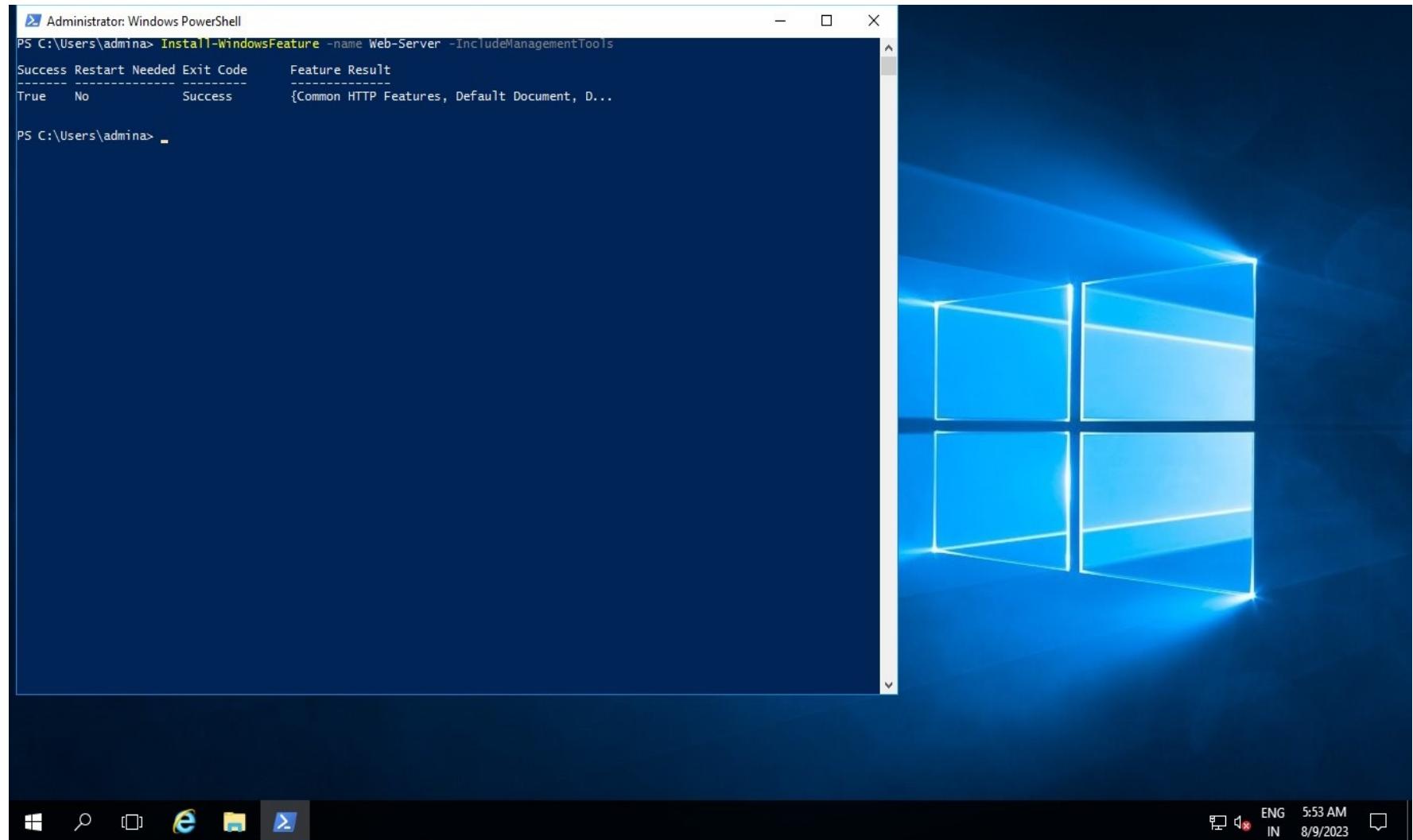
Now open the page power shell and run the command



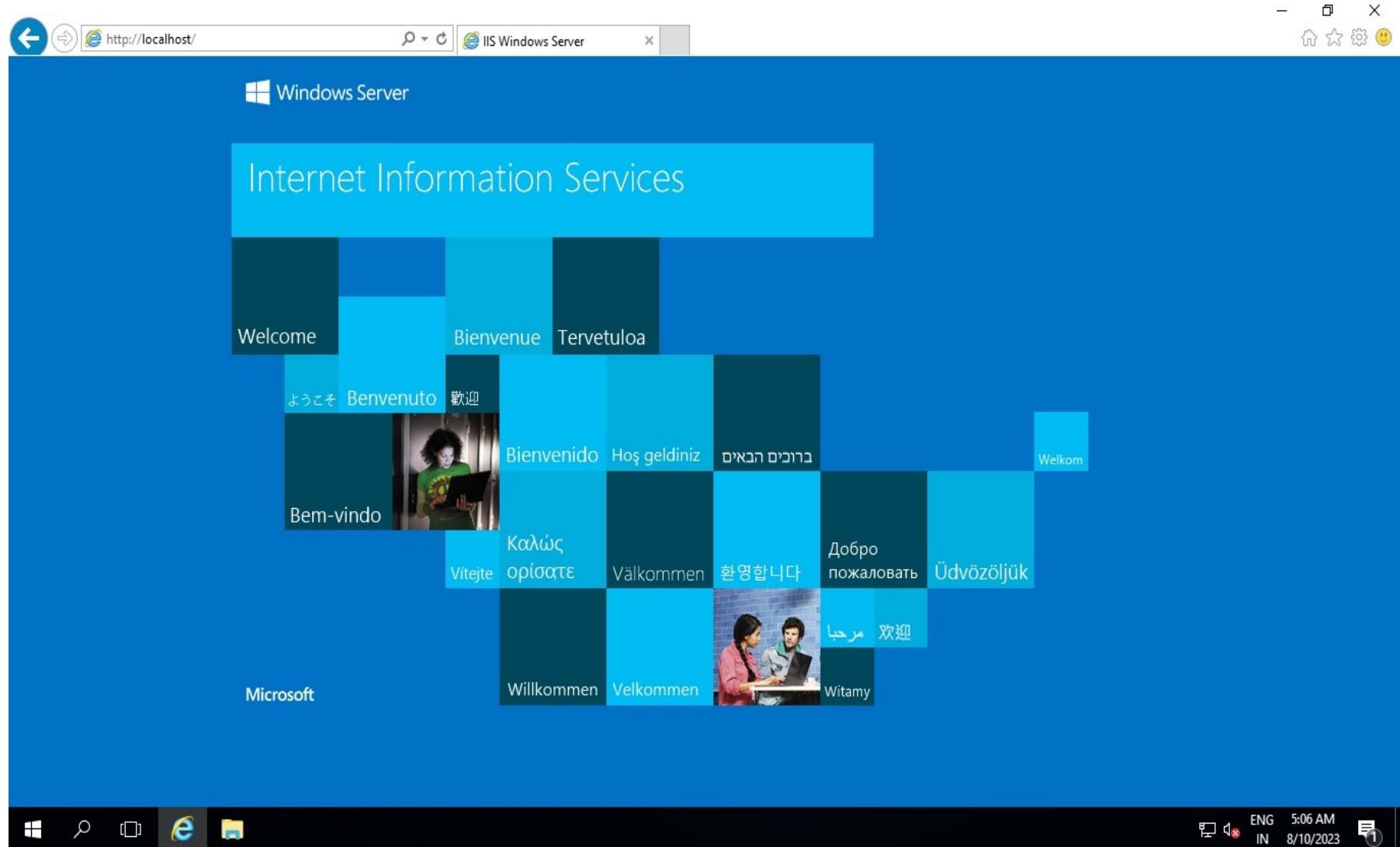
Now installation the IIS on VM



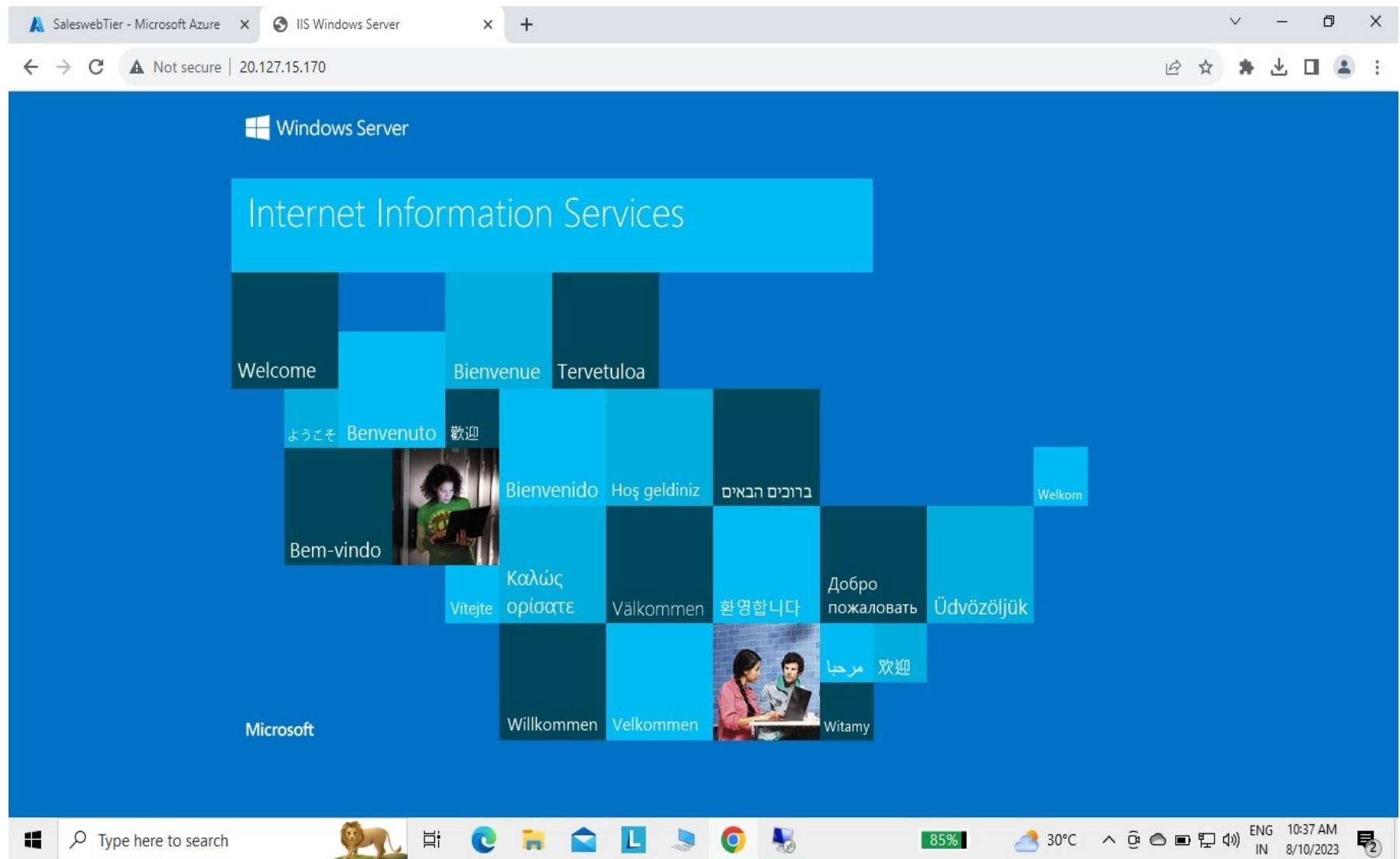
Now IIS successfully install on VM



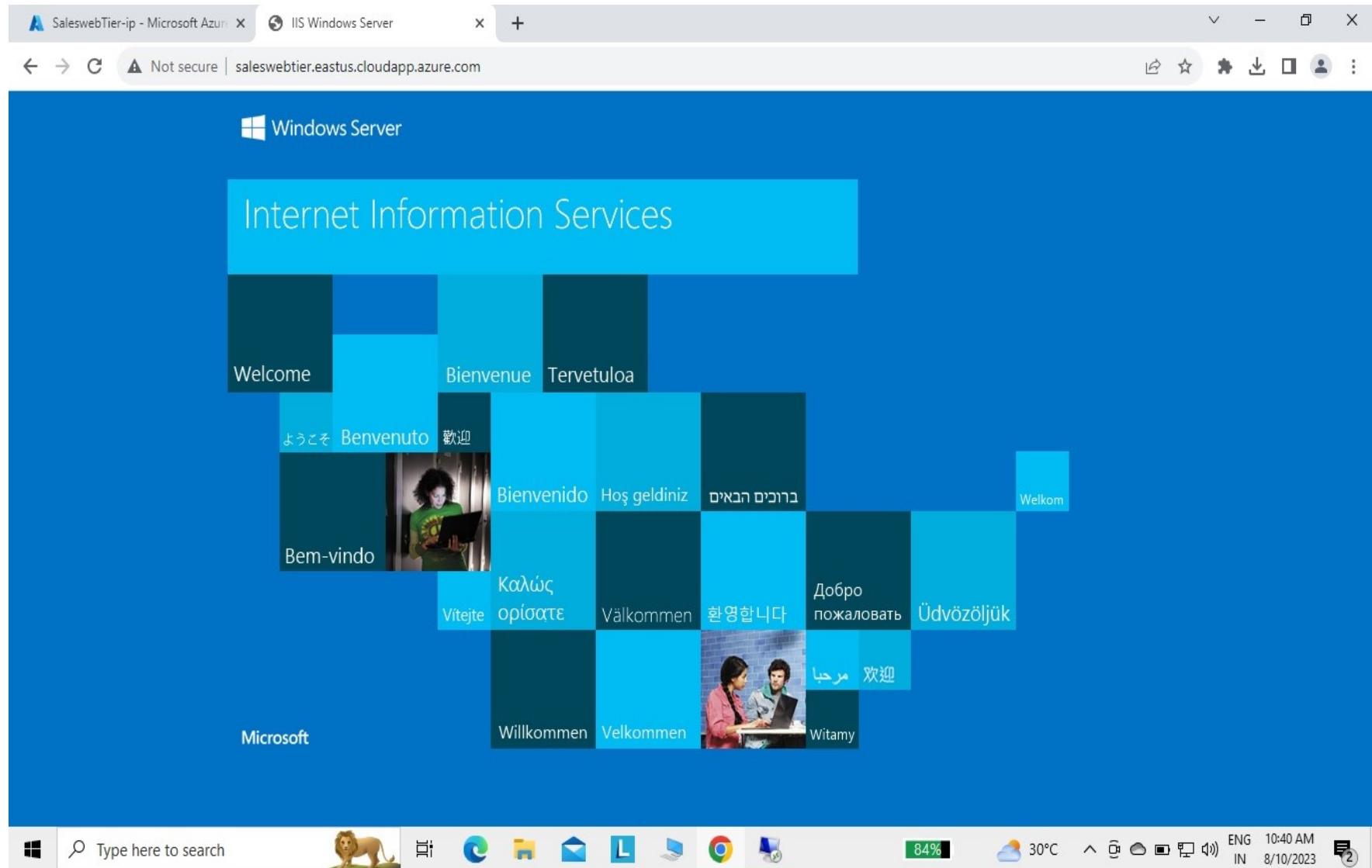
Now IIS run successful in localhost in VM



Now run IIS through public IP



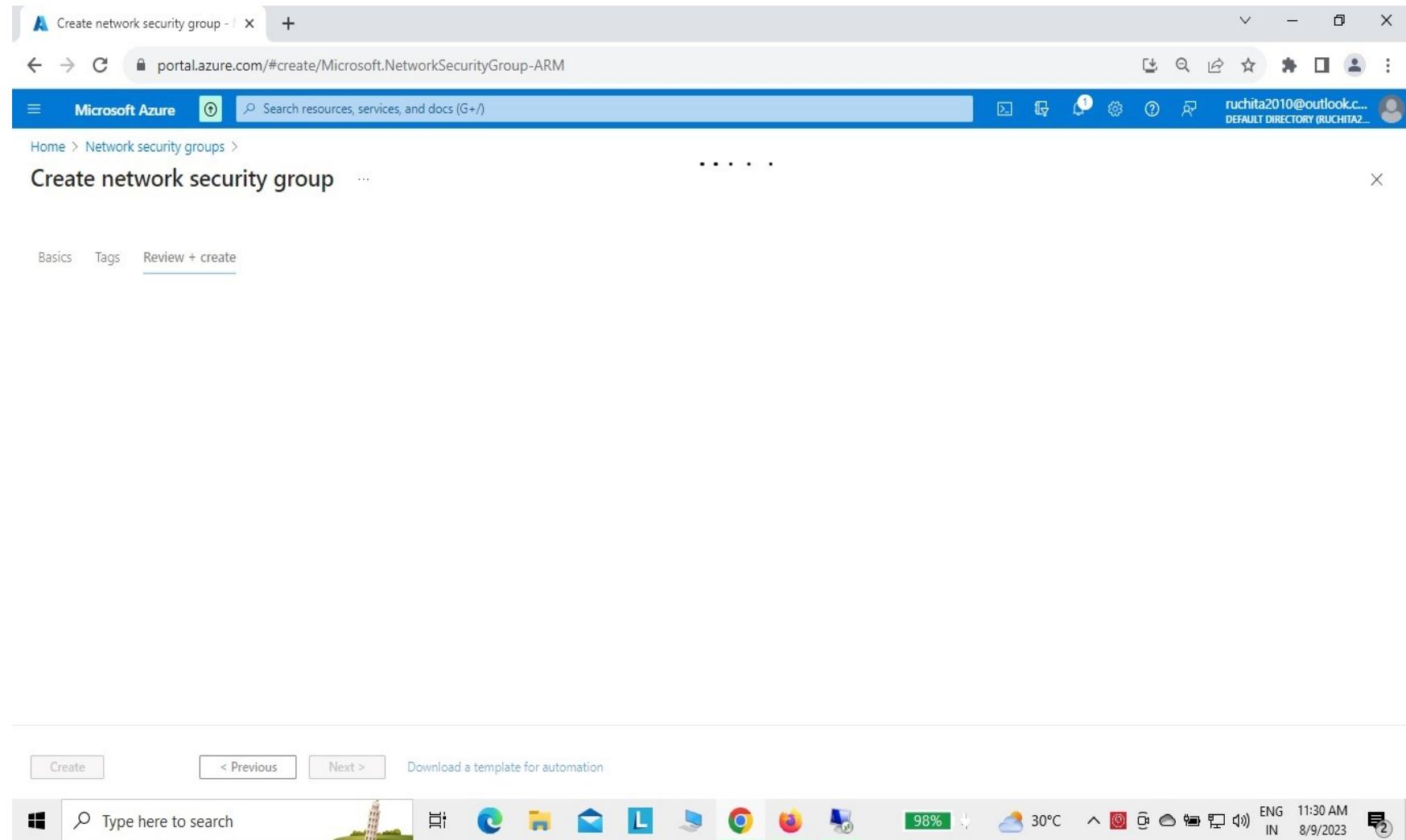
Now Run IIS through domain



Now go to Network Security Group page and click create button and configure.

The screenshot shows the Microsoft Azure portal interface for creating a Network Security Group (NSG). The title bar reads "Create network security group - portal.azure.com/#create/Microsoft.NetworkSecurityGroup-ARM". The top navigation bar includes "Microsoft Azure", a search bar, and user information "ruchita2010@outlook.com DEFAULT DIRECTORY (RUCHITAZ)". The main content area is titled "Create network security group" with a back arrow and a close button. Below this, there are tabs for "Basics", "Tags", and "Review + create", with "Basics" being the active tab. The "Project details" section contains dropdown menus for "Subscription" (Free Trial) and "Resource group" (AZ104Project, with a "Create new" option). The "Instance details" section contains fields for "Name" (aznetworkproject) and "Region" (East US). At the bottom, there are buttons for "Review + create", "Next : Tags >", and "Download a template for automation". The taskbar at the bottom shows various pinned icons and system status indicators like battery level (98%), temperature (30°C), and system time (11:29 AM 8/9/2023).

Now click Review + create button



Now click the create button and proceed the deployment

The screenshot shows the Microsoft Azure portal interface for creating a Network Security Group (NSG). The title bar indicates the page is 'Create network security group - portal.azure.com'. The top navigation bar shows 'Microsoft Azure' and the user's email 'ruchita2010@outlook.com'. The main content area is titled 'Create network security group' and includes a validation message 'Validation passed'. There are three tabs at the top: 'Basics', 'Tags', and 'Review + create', with 'Review + create' being the active tab. The 'Basics' section displays the following configuration:

Setting	Value
Subscription	Free Trial
Resource group	AZ104Project
Region	East US
name	aznetworkproject

The 'Tags' section shows 'None'.

At the bottom of the page, there are buttons for 'Create' (highlighted with a red box), '< Previous' and 'Next >', and a link to 'Download a template for automation'. The taskbar at the bottom of the screen shows various pinned icons and system status information, including battery level (98%), temperature (30°C), and system time (11:30 AM, 8/9/2023).

Now deployment process is start

The screenshot shows the Microsoft Azure Network Security Group (NSG) overview page for a resource named "Microsoft.NetworkSecurityGroup-20230809112817". The main heading indicates that "Deployment is in progress". Key deployment details are listed:

- Deployment name: Microsoft.NetworkSecurityGroup-20230809112817
- Subscription: Free Trial
- Resource group: AZ104Project
- Start time: 8/9/2023, 11:31:10 AM
- Correlation ID: c20652bc-e7fe-4395-a12e-097826d59d4f

The "Deployment details" section shows a single item:

Resource	Type	Status	Operation details
aznetworkproject	Network security group	Created	Operation details

On the right side of the page, there are promotional banners for Microsoft Defender for Cloud and Microsoft tutorials. At the bottom, there are links for giving feedback and telling about deployment experience.

At the very bottom of the screen, the Windows taskbar is visible, showing the search bar, pinned icons for File Explorer, Mail, Edge, and Google Chrome, battery level (98%), temperature (30°C), and system status (ENG IN 11:31 AM 8/9/2023).

Deployment phase is now complete

Microsoft.NetworkSecurityGroup x +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c8f1a%2Fresou...

Microsoft Azure Search resources, services, and docs (G+)

Home >

Microsoft.NetworkSecurityGroup-20230809112817 | Overview

Deployment

Search Refresh

Overview Inputs Outputs Template

Your deployment is complete

Deployment name : Microsoft.NetworkSecurityGroup-20230809112817 Start time : 8/9/2023, 11:31:10 AM
 Subscription : Free Trial Correlation ID : c20652bc-e7fe-4395-a12e-097826d59d4f
 Resource group : AZ104Project

> Deployment details
▼ Next steps

[Go to resource](#)

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Type here to search 99% 30°C ENG IN 11:31 AM 8/9/2023

Go to this page check the overview

aznetworkproject - Microsoft Azure

portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourcegroups/AZ104Proj...

Microsoft Azure

ruchita2010@outlook.com

DEFAULT DIRECTORY (RUCHITA2)

aznetworkproject | Network security group

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Alerts

Diagnostic settings

Logs

Waiting for management.azure.com...

Type here to search

File Explorer Mail Edge Google Chrome Firefox Task View Taskbar settings Battery (99%) Weather (30°C) System ENG IN 11:32 AM 8/9/2023

Scroll down and click subnet page

aznetworkproject - Microsoft Azure

portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourcegroups/AZ104Proj...

Microsoft Azure

aznetworkproject

Network security group

Search

Move Delete Refresh Give feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Inbound security rules

Outbound security rules

Network interfaces

Subnets

Properties

Locks

Monitoring

Alerts

Diagnostic settings

Logs

NSG flow logs

Resource group (move) : AZ104Project

Location : East US

Subscription (move) : Free Trial

Subscription ID : b5157b3b-875e-431c-a58f-4c1fa36c8f1a

Tags (edit) : Add tags

Custom security rules : 0 inbound, 0 outbound

Associated with : 0 subnets, 0 network interfaces

Filter by name

Port == all

Protocol == all

Source == all

Destination == all

Action == all

Priority ↑ Name ↑ Port ↑ Protocol ↑ Source ↑ Destination ↑ Action ↑

Inbound Security Rules

Priority	Name	Port	Protocol	Source	Destination	Action
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerIn...	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Outbound Security Rules

Priority	Name	Port	Protocol	Source	Destination	Action
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Type here to search

99% 30°C ENG IN 11:40 AM 8/9/2023

Now configure the subnet

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar includes Home, Microsoft Network Security Group, aznetworkproject, Subnets, Properties, Locks, Monitoring, Alerts, Diagnostic settings, Logs, and NSG flow logs. The Subnets item is currently selected. The main content area displays the 'aznetworkproject | Subnets' page, which lists network security groups. A modal dialog box titled 'Associate subnet' is open on the right, prompting the user to associate a subnet with a specific virtual network. The 'Virtual network' dropdown is set to 'VM02-vnet (AZ104Project)'. The 'Subnet' dropdown is set to 'default'. At the bottom of the dialog is a blue 'OK' button.

Azure Subnet Association Dialog:

- Virtual network: VM02-vnet (AZ104Project)
- Subnet: default

OK

Save the subnet page

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation includes Home, Microsoft Network Security Group, Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Inbound security rules, Outbound security rules, Network interfaces, Subnets, Properties, Locks), Monitoring (Alerts, Diagnostic settings, Logs, NSG flow logs), and a search bar at the bottom.

The main content area displays the "aznetworkproject | Subnets" page under "aznetworkproject". A modal dialog box titled "Associate subnet" is open, showing the "aznetworkproject" context. The dialog contains fields for "Virtual network" (set to "VM02-vnet (AZ104Project)") and "Subnet" (set to "default"). A status message "Saving network security group for subnet 'default'." is visible above the "OK" button.

The taskbar at the bottom shows various pinned icons and system status information: 100% battery, 30°C temperature, signal strength, battery level, and system date/time (11:42 AM, 8/9/2023).

Now subnet is create and this process is complete

The screenshot shows the Microsoft Azure portal interface. The left sidebar navigation bar is visible, showing options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Inbound security rules, Outbound security rules, Network interfaces, Subnets selected), Properties, Locks, Monitoring (Alerts, Diagnostic settings, Logs, NSG flow logs), and NSG flow logs.

The main content area displays the 'Subnets' page for the 'aznetworkproject' network security group. A table lists the subnet details:

Name	Address range	Virtual network
default	10.2.0.0/24	VM02-vnet

The browser address bar shows the URL: portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourcegroups/AZ104Proje... . The user is signed in as ruchita2010@outlook.com.

Now go to virtual machine page and create new VM in South East US zone

The screenshot shows the 'Create a virtual machine' wizard in the Microsoft Azure portal. The URL in the browser is portal.azure.com/#create/Microsoft.VirtualMachine-ARM.

Project details:

- Subscription: Free Trial
- Resource group: AZ104Project

Instance details:

- Virtual machine name: vm03
- Region: (US) South Central US
- Availability options: No infrastructure redundancy required
- Security type: Standard
- Image: Windows Server 2016 Datacenter - x64 Gen2 (free services eligible)
- VM architecture: x64 (selected)

A note at the bottom states: "Arm64 is not supported with the selected image."

At the bottom of the wizard, there are buttons for "Review + create" and "Next : Disks >". The status bar at the bottom right shows battery level (82%), weather (30°C Mostly cloudy), and system information (ENG IN 10:44 AM 8/10/2023).

Set configuration and proceed the next page

A Create a virtual machine - Microsoft Azure +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+) ruchita2010@outlook.com... DEFAULT DIRECTORY (RUCHITA2...)

Home > Virtual machines >

Create a virtual machine

Size * ⓘ Standard_B1s - 1 vcpu, 1 GiB memory (₹945.95/month) (free services eligible) See all sizes

Administrator account

Username * ⓘ admina ✓

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 * ⓘ Allow selected ports None

Select inbound ports * ⓘ HTTP (80), HTTPS (443), RDP (3389)

All traffic from the internet will be blocked by default. You will be able to change inbound port rules in the VM > Networking page.

Review + create < Previous Next : Disks > Give feedback

Type here to search        82% 30°C Mostly cloudy ENG IN 10:45 AM 8/10/2023 2

Now click Review + Create button and validate. And click the create button and proceed the next phase

The screenshot shows the Microsoft Azure portal interface for creating a virtual machine. The browser address bar displays 'portal.azure.com/#create/Microsoft.VirtualMachine-ARM'. The main title is 'Create a virtual machine'. A green banner at the top indicates 'Validation passed'. Below it, tabs for 'Basics', 'Disks', 'Networking', 'Management', 'Monitoring', 'Advanced', 'Tags', and 'Review + create' are visible, with 'Review + create' being the active tab. A note in a blue box states: 'Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.' The 'Price' section shows '1 X Standard B1s by Microsoft' with a cost of '1.2958 INR/hr'. It also mentions 'Subscription credits apply' and provides links for 'Terms of use' and 'Privacy policy'. The 'TERMS' section contains legal text about agreeing to terms and conditions. At the bottom, there are buttons for 'Create', '< Previous' and 'Next >', 'Download a template for automation', and 'Give feedback'. The taskbar at the bottom includes icons for File Explorer, Edge, Mail, OneDrive, Google Chrome, Task View, and a battery indicator showing 82%.

Now initialization process start

A Create a virtual machine - Micros x +

portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Virtual machines >

Create a virtual machine ...

Validation passed

Basics Disks Networking Management Monitoring Advanced Tags Review + create

Cost given below is an estimate and not the final price. Please use [Pricing calculator](#) for all your pricing needs.

Price

1 X Standard B1s by Microsoft

Subscription credits apply ⓘ

1.2958 INR/hr

Pricing for other VM sizes

TERMS

By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the Azure Marketplace Terms for additional details.

Create < Previous Next > Download a template for automation Give feedback

Type here to search

81% 30°C Mostly cloudy ENG 10:48 AM IN 8/10/2023 2

Deployment process is now start

A CreateVm-MicrosoftWindowsServer... x +

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c8f1...

Microsoft Azure Upgrade Search resources, services, and docs (G+) ruchita2010@outlook.c... DEFAULT DIRECTORY (RUCHITA2...)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230810104257 | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview Inputs Outputs Template

Deployment is in progress

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/08/2023, 10:48:19
Subscription: Free Trial Correlation ID: f13c0ed7-378d-4399-a011-e6205f56804a

Deployment details

Resource	Type	Status	Operation details
vm03ip673	Microsoft.Network/publicIpAddr...	Created	Operation details
vm03nsg517	Microsoft.Network/networkSecur...	Created	Operation details
BackupVaultAndOrPolicy-defaultVal	Microsoft.Resources/deployments	Created	Operation details

Give feedback
Tell us about your experience with deployment

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Find an Azure expert >

https://portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a

Type here to search

81% 30°C Mostly cloudy ENG IN 10:48 AM 8/10/2023

Deployment Progress is now running

Deployment process is now complete

A CreateVm-MicrosoftWindowsServer... x + portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c8f1a

Microsoft Azure [Upgrade](#) Search resources, services, and docs (G+)

ruchita2010@outlook.c... DEFAULT DIRECTORY (RUCHITA_)

Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20230810104257 | Overview X

 Deployment

Search [Delete](#) [Cancel](#) [Redeploy](#) [Download](#) [Refresh](#)

 Your deployment is complete

Deployment name: CreateVm-MicrosoftWindowsServer.WindowsSe... Start time: 10/08/2023, 10:48:19
Subscription: Free Trial Correlation ID: f13c0ed7-378d-4399-a011-e6205f56804a [Copy](#)

Resource group: AZ104Project

Deployment details

Next steps

Setup auto-shutdown Recommended
Monitor VM health, performance and network dependencies Recommended
Run a script inside the virtual machine Recommended

[Go to resource](#) [Create another VM](#)

Give feedback
[Tell us about your experience with deployment](#)

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https://portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a

Type here to search       80% 30°C Mostly cloudy  ENG IN 10:50 AM 8/10/2023 

Go to first create VM (Sales Web) and scroll down the page and click the disaster recovery button. Select the South Central zone

SaleswebTier - Microsoft Azure

portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourceGroups/AZ104...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Virtual machines > SaleswebTier

Virtual machines

Default Directory (ruchita2010outlook.onmicrosoft.com)

+ Create Switch to classic

Filter for any field...

Name ↑

- SaleswebTier
- VM01
- VM01_b83daf4a
- vm03

Operations

- Bastion
- Auto-shutdown
- Backup
- Disaster recovery**
- Updates
- Inventory
- Change tracking
- Automate

SaleswebTier | Disaster recovery

Virtual machine

Search

Basics Advanced settings Review + Start replication

Welcome to Azure Site Recovery

You can replicate your virtual machines to another Azure region for business continuity and disaster recovery needs. Learn more about Azure Site Recovery.

Disaster recovery between availability zones? No Yes

Target region * West US South Central US

Review + Start replication Previous Next : Advanced settings

Page 1 of 1

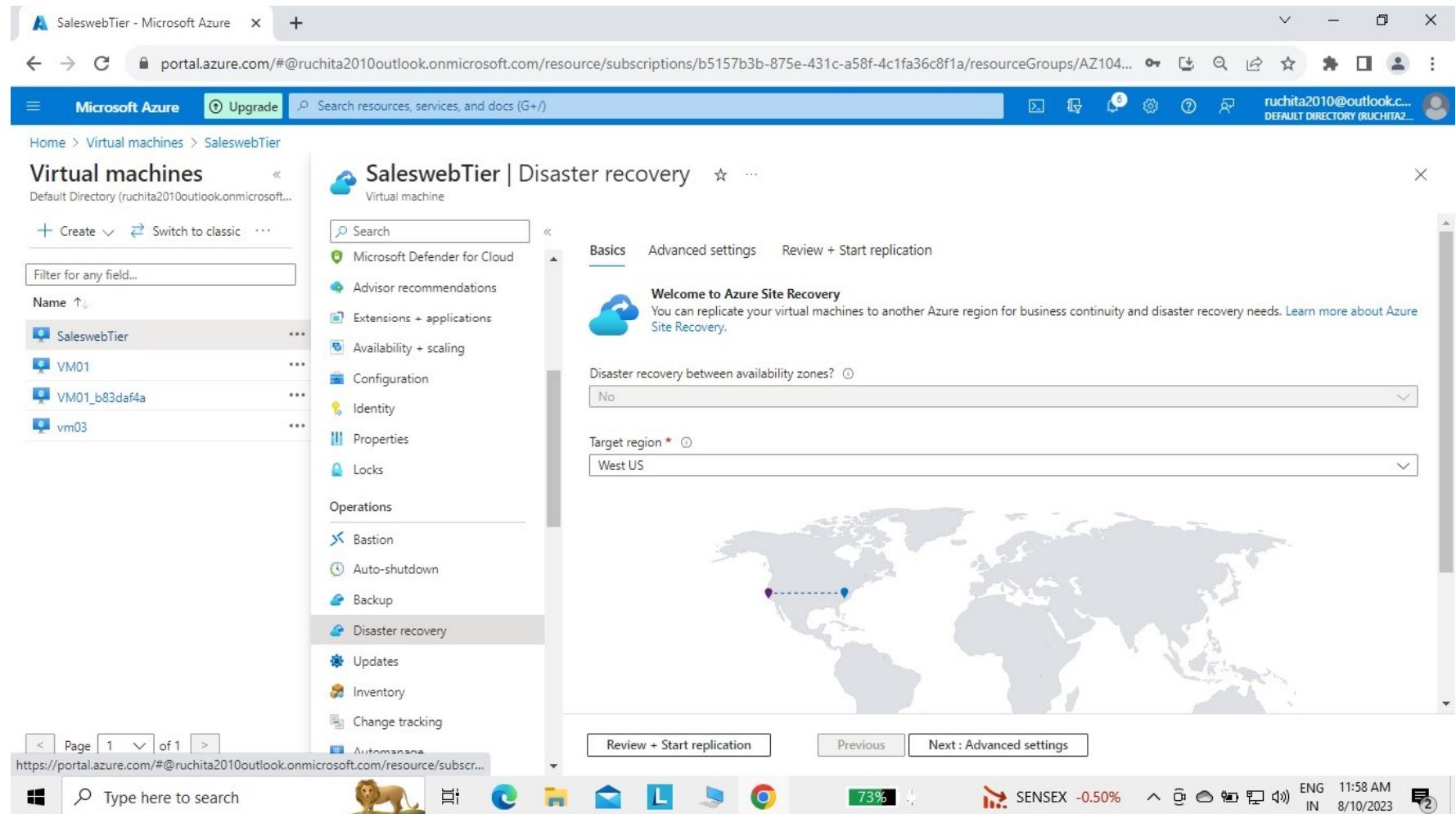
https://portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscr...

Type here to search

LION

73% SENSEX -0.50%

ENG IN 11:58 AM 8/10/2023



And check next page set all configuration the page and proceed the next phase

The screenshot shows the Microsoft Azure portal interface for configuring disaster recovery. The left sidebar lists virtual machines: SaleswebTier, VM01, VM01_b83daf4a, and vm03. The main pane displays the 'SaleswebTier | Disaster recovery' configuration page. The 'Target settings' section includes fields for Subscription (Free Trial), VM resource group (AZ104Project), Virtual network (sales1), Availability (Single instance, Availability set (new) SaleswebTier-asr), and Proximity placement (Not Applicable). A note at the top right states: 'Enable Site Recovery on High Churning VMs – Site Recovery now supports churn (data change rate) up to 100 MB/s per VM. Go to Storage settings to enable it. [Learn more](#) about this feature.' At the bottom, there are 'Review + Start replication', 'Previous', and 'Next : Review + Start replication' buttons. The status bar at the bottom shows battery level (82%), temperature (30°C), weather (Mostly cloudy), and system information (ENG IN 12:10 PM 8/10/2023).

Now click Review + Create button to validate the setting

The screenshot shows the Microsoft Azure portal interface. The left sidebar lists 'Virtual machines' with items like SaleswebTier, VM01, VM01_b83daf4a, and vm03. The main content area is titled 'SaleswebTier | Disaster recovery' and shows the 'Review + Start replication' tab selected. The 'Target settings' section displays the following details:

Settings	Source	Target
Subscription	Free Trial	Free Trial
VM resource group	AZ104Project	(new) AZ104Project-asr
Virtual network	sales1	(new) sales1-asr
Availability	Single instance	(new) SaleswebTier-asr (Availability set)
Proximity placement group	Not Applicable	Select

The 'Storage settings' section includes a warning about choosing General Purpose v2 storage accounts. It lists a 'Cache storage account' as '(new) o0rh5ndefaultvauasrcache [Standard_LRS]'. The 'Source managed disk' is listed as '[Premium SSD] SaleswebTier_disk1_f0f017dbf9d3441a91fe25' and the 'Replica managed disk' is listed as '(new) SaleswebTier_disk1_f0f017dbf9d3441a91fe2554b2bae [Premium SSD] ef3asr'. At the bottom, there are 'Start replication', 'Previous', and 'Next' buttons.

SaleswebTier - Microsoft Azure

portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourceGroups/AZ104Proj...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

ruchita2010@outlook.com DEFAULT DIRECTORY (RUCHITA2)

Home > Virtual machines > SaleswebTier

Virtual machines

Default Directory (ruchita2010outlook.onmicrosoft.com)

+ Create Switch to classic

Filter for any field...

Name	...
SaleswebTier	...
VM01	...
VM01_b83daf4a	...
vm03	...

SaleswebTier | Disaster recovery

Virtual machine

Search

Basics Advanced settings Review + Start replication

Target settings

Settings	Source	Target
Subscription	Free Trial	Free Trial
VM resource group	AZ104Project	(new) AZ104Project-asr
Virtual network	sales1	(new) sales1-asr
Availability	Single instance	(new) SaleswebTier-asr (Availability set)
Proximity placement group	Not Applicable	(new) SaleswebTier-ppg-asr

Storage settings

If you are choosing General Purpose v2 storage accounts, ensure that operations and data transfer prices are understood clearly before you proceed. [Learn more](#)

Cache storage account: (new) pjbnndefaultvauasrcache [Standard_LRS]

Creating target resources

Start replication Previous Next

Type here to search

Lion icon

File, Edge, Mail, LinkedIn, Task View, Google Chrome, Battery 93%, Weather 30°C Mostly cloudy, Network, Sound, Volume, ENG IN, 5:49 PM, 8/10/2023, Notifications (2)

And click the create button to start the recovery phase

The screenshot shows the Microsoft Azure portal interface for a virtual machine named "SaleswebTier". The left sidebar lists other VMs: VM01, VM01_b83daf4a, and vm03. The main content area is titled "SaleswebTier | Disaster recovery" and displays the "Review + Start replication" step. It shows target settings for a VM resource group "AZ104Project" under "sales1" with "Single instance" and "Not Applicable" for other fields. Storage settings indicate a "Cache storage account" "(new) pjbnnfdefaultvauasrcache [Standard_LRS]". A warning message states: "If you are choosing General Purpose v2 storage accounts, ensure that operations and data transfer prices are understood clearly before you proceed." Below this, a progress bar shows "Creating target resources" at 92%. The top right shows deployment status: "Initializing deployment..." followed by "Deployment succeeded". The bottom navigation bar includes a search bar with a lion icon, taskbar icons for File Explorer, Edge, Mail, OneDrive, and Google Chrome, battery level (92%), and system status (30°C, Mostly cloudy).

Now running the progress and wait for 3 to 4 hours to complete the process

The screenshot shows the Microsoft Azure portal interface. The left sidebar lists 'Virtual machines' with items like SaleswebTier, VM01, VM01_b83daf4a, and vm03. The main content area is titled 'SaleswebTier | Disaster recovery' and shows the 'Review + Start replication' tab selected. On the right, there's a 'Notifications' panel with a message about a deployment in progress. The taskbar at the bottom displays system information such as battery level (92%), weather (30°C Mostly cloudy), and network status.

SaleswebTier - Microsoft Azure

portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourceGroups/AZ104Proj...

Microsoft Azure Upgrade Search resources, services, and docs (G+)

ruchita2010@outlook.c...
DEFAULT DIRECTORY (RUCHITA2...)

Home > Virtual machines > SaleswebTier

Virtual machines

Default Directory (ruchita2010outlook.onmicrosoft.com)

+ Create Switch to classic ...

Filter for any field...

Name ↑

- SaleswebTier ...
- VM01 ...
- VM01_b83daf4a ...
- vm03 ...

Search

- Availability + scaling
- Configuration
- Identity
- Properties
- Locks
- Operations
 - Bastion
 - Auto-shutdown
 - Backup
 - Disaster recovery
 - Updates
 - Inventory
 - Change tracking
 - Automanage
 - Configuration management (Preview)
 - Policies

Basics Advanced settings Review + Start replication

Target settings

Settings

Subscription	Source
Free Trial	AZ104
Virtual network	sales1
Availability	Single

Operations placement group

Storage settings

If you are choosing General Purpose v2 storage accounts, ensure [Learn more](#)

Cache storage account (new)

Creating target resources

Start replication Previous Next

Notifications

More events in the activity log → Dismiss all

Deployment in progress... Running X
Deployment to resource group 'az104project' is in progress.
a few seconds ago

Page 1 of 1

Type here to search

92%

30°C Mostly cloudy ENG IN 5:51 PM 8/10/2023

Deployment Process is running

A Virtual machines - Microsoft Azure

portal.azure.com/#view/HubsExtension/BrowseResource/resourceType/Microsoft.Compute%2FVirtualMachines

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

Home >

Virtual machines ...

Default Directory (ruchita2010outlook.onmicrosoft.com)

+ Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags

Filter for any field... Subscription equals all Type equals all Resource group equals all Location equals all Add filter

Showing 1 to 4 of 4 records.

Name	Type	Subscription	Resource group	Location	Status
SaleswebTier	Virtual machine	Free Trial	AZ104Project	East US	Running
VM01	Virtual machine	Free Trial	AZ900Project	East US	Stopped (deallocated)
VM01_b83daf4a	Virtual machine	Free Trial	AZ900Project	East US	Stopped (deallocated)
vm03	Virtual machine	Free Trial	AZ104Project	South Central US	Running

Notifications

More events in the activity log → Dismiss all

*** Enabling replication for 1 vm(s) Running a few seconds ago

The operation is in progress.

Deployment succeeded Deployment 'CreatingSystemIdentity-1691670034034' to resource group 'az104project' was successful. a few seconds ago

Pin to dashboard Go to resource group

< Previous Page 1 of 1 Next >

https://portal.azure.com/#@ruchita2010outlook.onmicrosoft.com/resource/subscriptions/b5157b3b-875e-431c-a58f-4c1fa36c8f1a/resourceGroups/AZ104Project/providers/Microsoft.Compute/virtualMachines/SaleswebTier

Windows Start Type here to search (Lion icon) Task View Edge File Mail Internet Explorer Google Chrome 91% Weather 30°C Mostly cloudy ENG IN 5:52 PM 8/10/2023 2

Now check process is complete run the test failover button

The screenshot shows the Microsoft Azure portal interface for a 'Test failover' job. The browser title is 'Test failover - Microsoft Azure'. The URL is 'portal.azure.com/#view/Microsoft_Azure_RecoveryServices/ReplicationJobDrillDownBlade2/id/%2Fsubscriptions%2Fb5157b3b-875e-431c-a58f-4c1fa36c...'. The user is signed in as 'ruchita2010@outlook.c...' with 'DEFAULT DIRECTORY (RUCHITA2...)'. The main navigation bar includes 'Microsoft Azure', 'Upgrade', and a search bar. Below the navigation, there's a breadcrumb trail: 'Home > Test failover'. The 'Test failover' section is expanded, showing 'Site Recovery Job'. There are three buttons at the top of this section: 'Export job', 'Environment Details', and 'Feedback'. A message box displays: 'Test failover for the virtual machine has completed. To delete the virtual machine created during test failover use 'Cleanup test failover' option on the virtual machine.' The 'Properties' section shows details: 'Vault' is 'defaultvault719', 'Protected item' is 'SaleswebTier', and 'Job id' is '688e1e29-aa61-4a44-880e-663c70a1a006 ActivityId: bec08acc-2568-40b8-a9ef-87ef266f3456'. The 'Job' section lists four steps with their status, start time, and duration:

Name	Status	Start time	Duration
Prerequisites check for test failover	Successful	11/08/2023, 17:52:15	00:00:01
Create test virtual machine	Successful	11/08/2023, 17:52:16	00:01:33
Preparing the virtual machine	Successful	11/08/2023, 17:53:50	00:08:18
Start the virtual machine	Successful	11/08/2023, 18:02:08	00:00:00



Now all process complete view last page infrastructure

SaleswebTier - Microsoft Azure

portal.azure.com/#view/Microsoft_Azure_RecoveryServices/ReplicationProtectedItemSettingsMenuBlade/~/overviewmenuitem/replicationProtectedItem...

Microsoft Azure Upgrade Search resources, services, and docs (G+/)

ruchita2010@outlook.c...
DEFAULT DIRECTORY (RUCHITA_)

Home > Virtual machines > SaleswebTier | Disaster recovery >

SaleswebTier ...

Replicated items

Search Failover Test Failover Cleanup test failover Commit Resynchronize Change recovery point Re-protect Disable Replication Error Details Refresh

Overview Infrastructure view Table view

General

Properties Compute Network Disks

eastus southcentralus

Azure Site Recovery

Managed disk(s) 1

Virtual machine
SaleswebTier

Cache storage account(s)
pjbnndefaultrausrcache

Type here to search 94% 30°C ENG IN 6:09 PM
8/11/2023