

portal.azure.com/#create/Microsoft.VMSS

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Home > Virtual machine scale sets >

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 * Free Trial
Resource group * (new) scale
[Create new](#)

Scale set details

Virtual machine scale set name * scaleset
Region * (Africa) South Africa North
Availability zone ① none

Orchestration
A scale set has a "scale set model" that defines the attributes of virtual machine instances (size, number of data disks, etc). As the number of instances in the scale set changes, new instances are added based on the scale set model.
[Learn more about the scale set model >](#)

Orchestration mode * ①
☒ **Flexible:** achieve high availability at scale with identical or multiple virtual machine types
☐ **Uniform:** optimized for large scale stateless workloads with identical instances

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- Click on create virtual machine scale set
- Name the resource group
- Name the instance
- User name password
- Click next

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Security type ① Trusted launch virtual machines
[Configure security features](#)

Instance details

Image * ① Windows 10 Pro, version 22H2 - x64 Gen2 (free services eligible)
[See all images](#) [Configure VM generation](#)

VM architecture ①
☐ Arm64
☒ x64
Arm64 is not supported with the selected image.

Run with Azure Spot discount ① ☐

Size * ① Standard_B1s - 1 vcpu, 1 GiB memory (€894.35/month) (free services eligible)
[See all sizes](#)

Enable Hibernation (preview) ① ☐
To enable Hibernation, you must register your subscription. [Learn more >](#)

Administrator account

Username * azureuser
Password *
Confirm password *
☒

Licensing

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Create a virtual machine scale set

ChatGPT

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Azure Spot offers unused Azure capacity at a discounted rate. Your workloads should be able to tolerate interruptions or infrastructure loss when Azure needs the capacity elsewhere. [Learn more about Azure Spot](#)

You must enable Spot and select your size on the Basics tab before configuring Spot.

Eviction options

Configure the conditions Azure will use to determine why and how an Azure Spot instance is evicted.

To select eviction options, turn on Run with Azure Spot discount.

Eviction type

☒ Capacity only: Your virtual machine will be evicted when Azure's excess capacity disappears.

☐ Price or capacity: Your virtual machine will be evicted when Azure's excess capacity disappears, or costs exceed your specified max price.

Maximum price you want to pay per hour (USD)

1.02514

Enter a price greater than or equal to the hardware costs (US\$0.00001)

Eviction policy

☒ Stop / Deallocate

☐ Delete

Try to restore instances

☐

Try to restore is not available with the Flexible orchestration mode.

Scale with VMs and discounted Spot VMs

Review + create < Previous Next >

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14:38

22-01-2024

Click next

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VM disk encryption

Azure disk storage encryption automatically encrypts your data stored on Azure managed disks (OS and data disks) at rest by default when persisting it to the cloud.

Encryption at host

☐

Encryption at host is not registered for the selected subscription. [Learn more about enabling this feature](#)

OS disk

OS disk size

Image default (127 GiB)

OS disk type

Premium SSD (locally-redundant storage)

Key management

Platform-managed key

Enable Ultra Disk compatibility

☐

Ultra Disks can be used only with Virtual Machine Scale Sets in an Availability Zone.

Data disks

You can add and configure additional data disks for your virtual machine scale set or attach existing disks. This VMSS also comes with a temporary disk.

LUN	Name	Size (GiB)	IOPS	THRO...	Disk type	Host cachin
-----	------	------------	------	---------	-----------	-------------

Create and attach a new disk

Advanced

Review + create < Previous Next: Networking >

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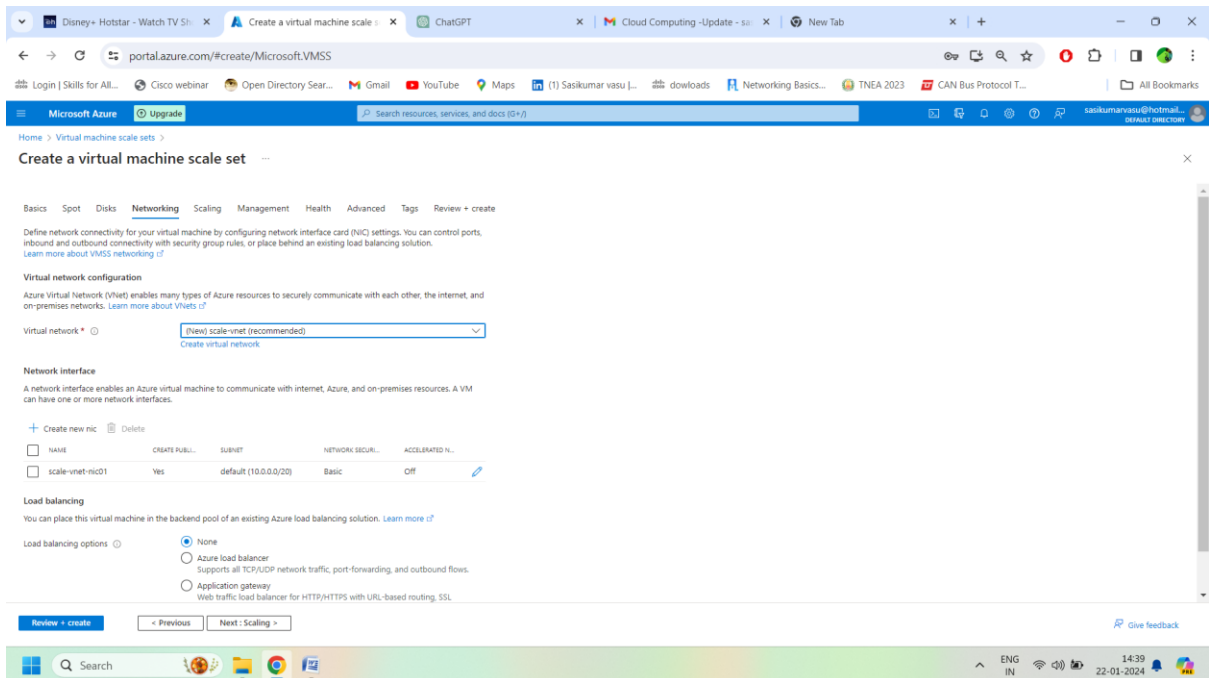
Search

ENG IN


14:38


22-01-2024


 Click next




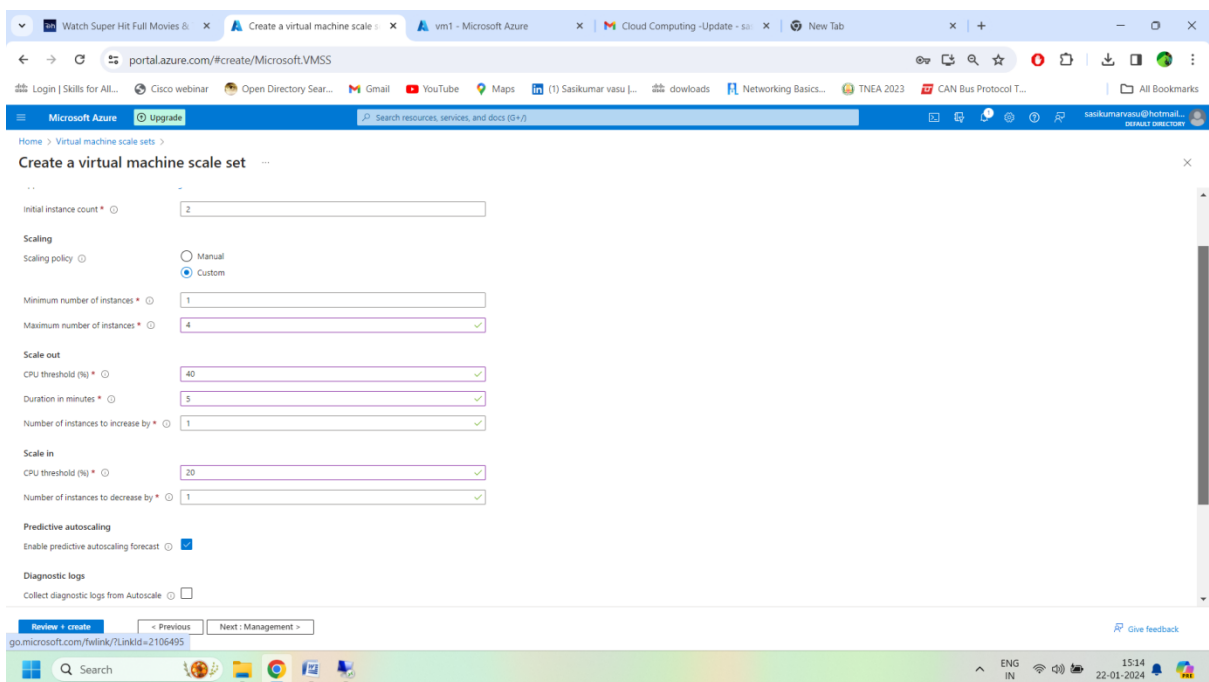
The screenshot shows the 'Create a virtual machine scale set' page in the Microsoft Azure portal. The 'Networking' tab is selected. The page includes sections for 'Virtual network configuration' (with a dropdown for 'Virtual network' set to 'New scale-vnet (recommended)'), 'Network interface' (with a table for 'scale-vnet-nic01'), and 'Load balancing' (with radio buttons for 'None', 'Azure load balancer', and 'Application gateway'). Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next: Scaling >'. The system tray at the bottom shows the date as 22-01-2024.

 In scaling tab click on custom

 Select number instance

 Give CPU threshold value

 Click next



The screenshot shows the 'Create a virtual machine scale set' page in the Microsoft Azure portal, with the 'Scaling' tab selected. The 'Initial instance count' is set to 2. Under 'Scaling policy', 'Custom' is selected. The 'Scale out' section has input fields for 'CPU threshold (%)' (40), 'Duration in minutes' (5), and 'Number of instances to increase by' (1). The 'Scale in' section has input fields for 'CPU threshold (%)' (20) and 'Number of instances to decrease by' (1). The 'Predictive autoscaling' section has a checkbox for 'Enable predictive autoscaling forecast' which is checked. The 'Diagnostic logs' section has a checkbox for 'Collect diagnostic logs from Autoscale' which is unchecked. Navigation buttons at the bottom include 'Review + create', '< Previous', and 'Next: Management >'. The system tray at the bottom shows the date as 22-01-2024.

Click next

The screenshot shows the 'Create a virtual machine scale set' wizard in the Microsoft Azure portal, specifically the 'Management' tab. The breadcrumb trail is 'Home > Virtual machine scale sets >'. The page title is 'Create a virtual machine scale set'. The navigation bar includes 'Basics', 'Spot', 'Disks', 'Networking', 'Scaling', 'Management' (active), 'Health', 'Advanced', 'Tags', and 'Review + create'. Below the navigation bar, there is a section for 'Microsoft Defender for Cloud' with a green checkmark indicating the subscription is protected. The 'Upgrade policy' section shows 'Upgrade mode' set to 'Manual - Existing instances must be manually upgraded'. A blue information box states: 'Upgrade policy is not supported for virtual machine scale sets with flexible orchestration mode.' The 'Monitoring' section has 'Boot diagnostics' set to 'Enable with managed storage account (recommended)'. There are checkboxes for 'Enable notifications for instance termination' and 'Enable notifications for OS image upgrades or re-image', both of which are currently unchecked. At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Health >'. The Windows taskbar at the bottom shows the search bar, task view, and system tray with the time 14:39 on 22-01-2024.

Click next

The screenshot shows the 'Create a virtual machine scale set' wizard in the Microsoft Azure portal, specifically the 'Health' tab. The breadcrumb trail is 'Home > Virtual machine scale sets >'. The page title is 'Create a virtual machine scale set'. The navigation bar includes 'Basics', 'Spot', 'Disks', 'Networking', 'Scaling', 'Management', 'Health' (active), 'Advanced', 'Tags', and 'Review + create'. Below the navigation bar, there is a paragraph explaining that health monitoring can be configured on an application endpoint to update the status of the application on that instance. The 'Health' section has a checkbox for 'Enable application health monitoring', which is currently unchecked. The 'Automatic repair policy' section has a paragraph explaining that before enabling the automatic repairs policy, the requirements for opting in must be reviewed. There is a checkbox for 'Enable automatic repairs', which is currently unchecked. A blue information box states: 'To enable automatic repairs, you must apply application health monitoring.' At the bottom, there are buttons for 'Review + create', '< Previous', 'Next: Advanced >', and 'Next: Advanced >'. The Windows taskbar at the bottom shows the search bar, task view, and system tray with the time 14:40 on 22-01-2024.

Click next

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Home > Virtual machine scale sets >

Create a virtual machine scale set

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

Add additional configuration, agents, scripts or applications via virtual machine extensions or cloud-init.

Allocation policy

Spreading algorithm ☒ Max spreading ☐ Fixed spreading

VM applications

VM applications contain application files that are securely and reliably downloaded on your VM after deployment. In addition to the application files, an install and uninstall script are included in the application. You can easily add or remove applications on your VM after create. [Learn more](#)

+ Add

Install order	Application name	Azure compute g...	Version number	Treat as failure
---------------	------------------	--------------------	----------------	------------------

Click 'Add' to get started with VM applications.

Custom data

Pass a script, configuration file, or other data into the virtual machine **while it is being provisioned**. The data will be saved on the VM in a known location. [Learn more about custom data for VMSS](#)

Custom data

[Review + create](#) [< Previous](#) [Next: Tags >](#) [Give feedback](#)

Click next

portal.azure.com/#create/Microsoft.VMSS

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Home > Virtual machine scale sets >

Create a virtual machine scale set

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

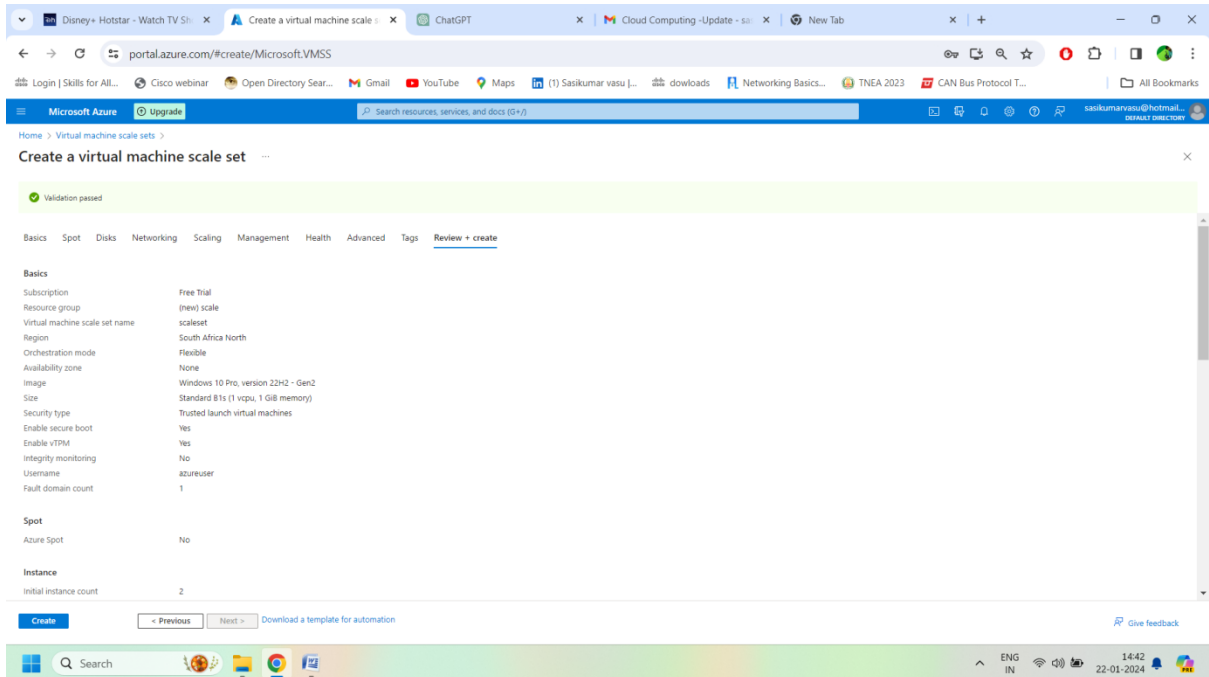
Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. [Learn more about tags](#)

Note that if you create tags and then change resource settings on other tabs, your tags will be automatically updated.

Name	Value	Resource
		8 selected

[Review + create](#) [< Previous](#) [Next: Review + create >](#) [Give feedback](#)

 Click create



Home > Virtual machine scale sets >

Create a virtual machine scale set

Validation passed

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

Basics

Subscription	Free Trial
Resource group	(new) scale
Virtual machine scale set name	scale1
Region	South Africa North
Orchestration mode	Flexible
Availability zone	None
Image	Windows 10 Pro, version 22H2 - Gen2
Size	Standard B1s (1 vcpu, 1 GiB memory)
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Username	azureuser
Fault domain count	1



Spot

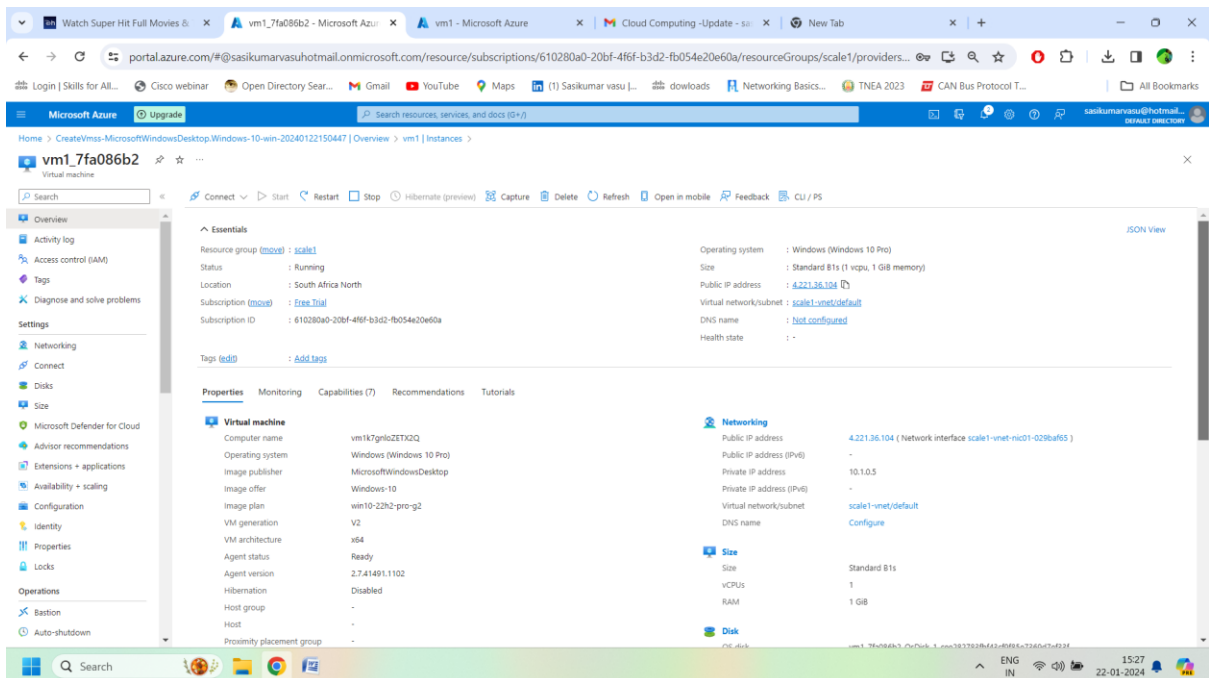
Azure Spot	No
------------	----

Instance

Initial instance count	2
------------------------	---

Create < Previous Next > Download a template for automation [Give feedback](#)

 Once deployment is complete
 Click on overview.



Home > Create/VMs-MicrosoftWindowsDesktop.Windows-10-win-20240122150447 | Overview > vm1 | Instances >

vm1_7fa086b2

Virtual machine

Search Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile Feedback CU / PS

Overview

Activity log Access control (IAM) Tags Diagnose and solve problems Settings Networking Connect Disks Size Microsoft Defender for Cloud Advisor recommendations Extensions + applications Availability + scaling Configuration Identity Properties Locks Operations Bastion Auto-shutdown

Essentials

Resource group	scale1	Operating system	Windows (Windows 10 Pro)
Status	Running	Size	Standard B1s (1 vcpu, 1 GiB memory)
Location	South Africa North	Public IP address	4.221.36.104
Subscription	Free Trial	Virtual network/subnet	scale1-vnet/default
Subscription ID	610280a0-20bf-46f6-b3d2-fb054e20e60a	DNS name	Not configured
Tags	Add tags	Health state	-

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name	vm1k7ghoZETXQ
Operating system	Windows (Windows 10 Pro)
Image publisher	MicrosoftWindowsDesktop
Image offer	Windows-10
Image plan	win10-22h2-pro-g2
VM generation	V2
VM architecture	x64
Agent status	Ready
Agent version	2.7.1491.1102
Hibernation	Disabled
Host group	-
Host	-
Proximity placement group	-

Networking

Public IP address	4.221.36.104 (Network interface scale1-nic01-029baf65)
Public IP (IPv6)	-
Private IP address	10.1.0.5
Private IP (IPv6)	-
Virtual network/subnet	scale1-vnet/default
DNS name	Configure

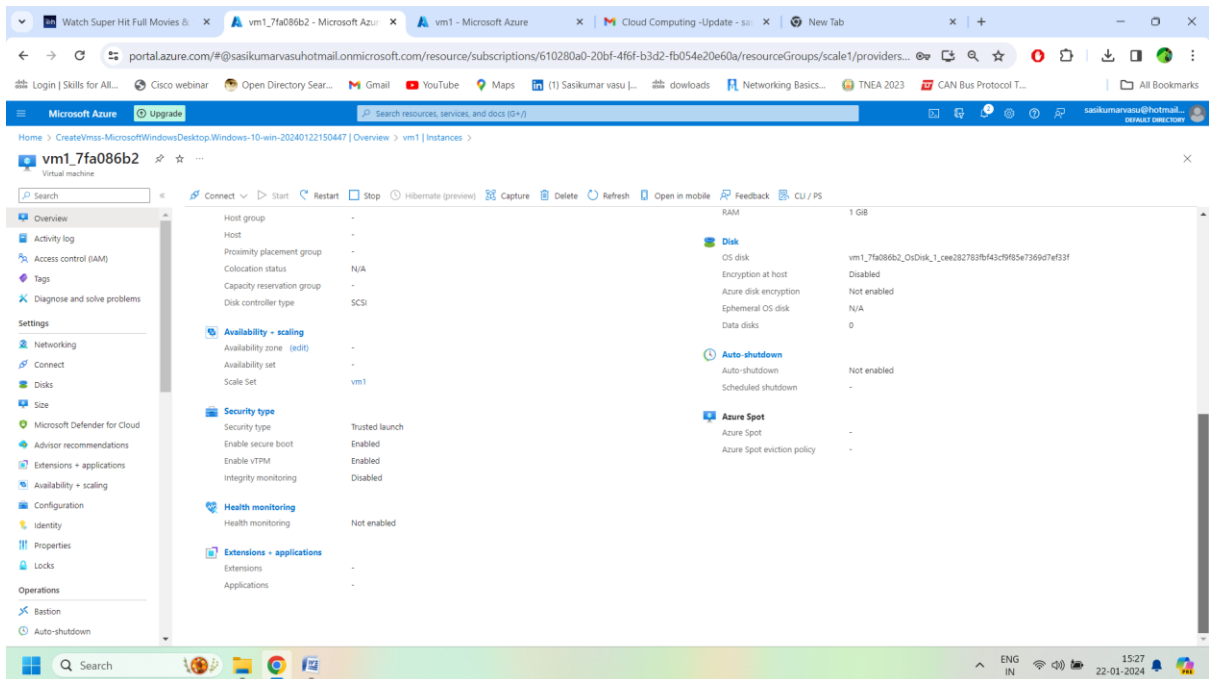
Size

Size	Standard B1s
vCPU	1
RAM	1 GiB

Disk

OS disk	vm1_7fa086b2-OSDisk_Linux38333838M43-8068-7260474931F
---------	---

In scaling tab auto scaling is done



The screenshot shows the Azure portal interface for a virtual machine named **vm1_7fa086b2**. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, and Settings. The main pane displays the configuration for the selected VM, with the **Availability + scaling** tab active. This tab shows settings for availability zones, security type, and health monitoring. The right pane shows details for the VM's disk and auto-shutdown settings.

Availability + scaling

- Availability zone: (edit)
- Availability set: vm1
- Scale Set: vm1

Security type

- Security type: Trusted launch
- Enable secure boot: Enabled
- Enable TPM: Enabled
- Integrity monitoring: Disabled

Health monitoring

- Health monitoring: Not enabled

Extensions + applications

- Extensions: -
- Applications: -

Disk

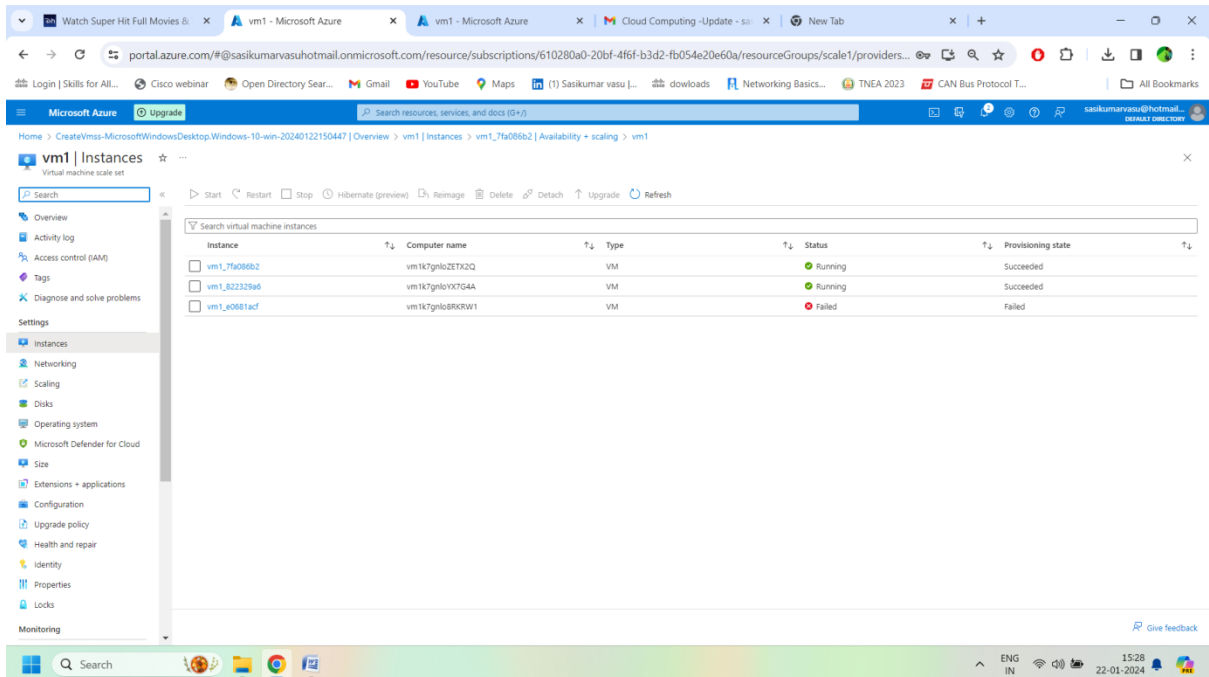
- OS disk: vm1_7fa086b2_OsDisk_1_cce282783fb43c9f85e7369d7ef33f
- Encryption at host: Disabled
- Azure disk encryption: Not enabled
- Ephemeral OS disk: N/A
- Data disks: 0

Auto-shutdown

- Auto-shutdown: Not enabled
- Scheduled shutdown: -

Azure Spot

- Azure Spot: -
- Azure Spot eviction policy: -



The screenshot shows the Azure portal interface for a virtual machine scale set named **vm1**. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, and Settings. The main pane displays the configuration for the selected VM scale set, with the **Instances** tab active. This tab shows a table of virtual machine instances.

Instances

Instance	Computer name	Type	Status	Provisioning state
vm1_7fa086b2	vm1k7gnl6ZETX2Q	VM	Running	Succeeded
vm1_82329a6	vm1k7gnl6YX7G4A	VM	Running	Succeeded
vm1_e0681acf	vm1k7gnl68R0XW1	VM	Failed	Failed

vm1 - Microsoft Azure

portal.azure.com/#view/Microsoft_Azure_Health/ChildResourcesListBlade/parent/%2Fsubscriptions%2F610280a0-20bf-4f6f-b3d2-fb054e20e60a%2FresourceGr...

Child Resource Health (Preview)

vm

Last updated: 1/22/2024, 3:29:46 PM

Resource Name	Type
vm1	Virtual machine
vm1	Virtual machine

Close

Search

ENG IN 15:29 22-01-2024