

Create virtual machine scale set

Microsoft Azure

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Create a Virtual Machine Scale Set (VMSS) ...

Basics Spot Disks Networking Management Health Advanced Tags Review + create

At no added cost, a VMSS offers automatic scaling and performance optimization, infrastructure flexibility, and options to mix VM sizes, zones, and fault domains—all with simple, centralized group VM management. Already have VMs? Just create a new flexible VMSS, and attach existing VMs to your new scale set to get enhanced availability, resiliency, and capacity and cost optimization. [Learn more about VMSS](#)

Project details

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

Subscription *

Manohar Subscription

Resource group *

Demo-RG

Create new

Scale set details

Virtual machine scale set name *

app-set

Region *

(Asia Pacific) Central India

Availability zone ⓘ

None

Orchestration

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Create a Virtual Machine Scale Set (VMSS) ...

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 * ⓘ

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

☐ **Uniform:** optimized for large scale stateless workloads

Security type ⓘ

[Configure security features](#)

Scaling

Scaling mode ⓘ

☒ **Manually update the capacity:** Maintain a fixed amount of instances.

☐ **Autoscaling:** Scaling based on a CPU metric, on any schedule.

☐ **No scaling profile:** manual attach virtual machines after deployment

Improve your availability by selecting multiple zones

Instance count * ⓘ

[Configure scaling options](#)

Instance details

Image * ⓘ

[See all images](#) | [Configure VM generation](#)

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Create a Virtual Machine Scale Set (VMSS) ...

VM architecture ⓘ

☐ Arm64☒ x64

Arm64 is not supported with the selected image.

Size * ⓘ

Standard_B2ms - 2 vcpus, 8 GiB memory (₹5,927.45/month) ▾

[See all sizes](#)

Enable Hibernation ⓘ

☐ Hibernation 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

Username * ⓘ

manohar ✓

Password * ⓘ

•••••••• ✓

Confirm password * ⓘ

•••••••• ✓

Licensing

Save up to 49% with a license you already own using Azure Hybrid Benefit. [Learn more](#) Would you like to use an existing ☐

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Create a Virtual Machine Scale Set (VMSS) ...

Virtual network * ⓘ

(New) Demo-RG-vnet (recommended) ▼

[Create virtual network](#)

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 SECURI...	ACCELERATED N...	
<input type="checkbox"/>	Demo-RG-vnet-nic01	Yes	default (10.0.0.0/20)	Basic	Off	✎

Load balancing

You can place this virtual machine in the backend pool of an existing Azure load balancing solution. [Learn more](#) ⓘ

Load balancing options ⓘ

☒ None

☐ Azure load balancer
Supports all TCP/UDP network traffic, port-forwarding, and outbound flows.

☐ Application gateway
Web traffic load balancer for HTTP/HTTPS with URL-based routing, SSL termination, session persistence, and web application firewall.

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✓ Validation passed

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Basics

Subscription	Manohar Subscription
Resource group	Demo-RG
Virtual machine scale set name	app-set
Region	Central India
Orchestration mode	Flexible
Availability zone	None
Image	Windows Server 2022 Datacenter - Gen2
Size	Standard B2ms (2 vcpus, 8 GiB memory)
Scaling mode	Manually update the capacity
Instance count	2
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Enable Hibernation	No

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CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20250126033715 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name : CreateVmss-MicrosoftWindowsServer.WindowsServer-2-202501260... Start time : 1/26/2025, 3:40:43 AM
Subscription : Manohar Subscription Correlation ID : 712d98d0-a0b4-4259-92ee-941bb8a92a85
Resource group : Demo-RG

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost management

Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

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Go to Microsoft Defender for Cloud >

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Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support

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app-set | Instances

Virtual machine scale set

Search

Edit columns Refresh Export to CSV Open query Assign tags Start Restart Stop Hibernate Reimage Delete Detach Upgrade Protection

Filter for any field... Status equals all Add filter

Showing 1 to 2 of 2 records.

No grouping List view

<input type="checkbox"/>	Name ↑↓	Computer name ↑↓	Status ↑↓	Type ↑↓	Provisioning state ↑↓	Size ↑↓
<input type="checkbox"/>	app-set_201f3a8c	app-setfd8WUVF0	Running	VM	Succeeded	Standard_B2ms
<input type="checkbox"/>	app-set_7d5df806		Running	VM	Succeeded	Standard_B2ms

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Instances

Networking

Network settings

Load balancing

Application security groups

Network manager

Settings

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Availability + scale

Scaling

Availability

Size

Security

Identity

Microsoft Defender for

Configure Scale-In Policy Predictive charts Run history JSON Notify Diagnostic settings

Autoscale is a built-in feature that helps applications perform their best when demand changes. You can choose to scale your resource manually to a specific instance count, or via a custom Autoscale policy that scales based on metric(s) thresholds, or schedule instance count which scales during designated time windows. Autoscale enables your resource to be performant and cost effective by adding and removing instances based on demand. [Learn more about Azure Autoscale](#) or [view the how-to video](#).

Choose how to scale your resource

Manual scale

Maintain a fixed instance count

Custom autoscale

Scale on any schedule, based on any metrics or predictively

Custom autoscale

Autoscale setting name *

app-set-Autoscale-243

Resource group

Demo-RG

Predictive autoscale

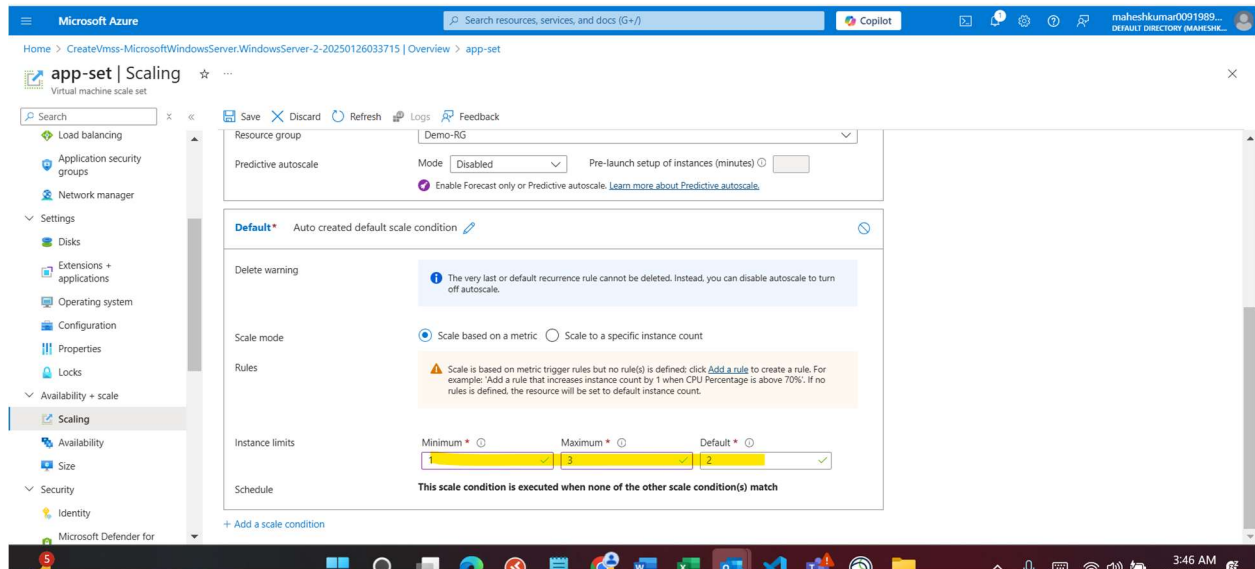
Mode Disabled

Pre-launch setup of instances (minutes) 0

Enable Forecast only or Predictive autoscale. [Learn more about Predictive autoscale](#).

Default *

Auto created default scale condition



If cpu utilization is greater than 70% for the duration of 10 mins increase the count by 1

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1

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Scale rule

Metric source

Current resource (app-set)

Resource type

Virtual machine scale sets

Resource

app-set

Criteria

Metric namespace *

Virtual Machine Host

Metric name

Percentage CPU

1 minute time grain

Dimension Name	Operator	Dimension Values	Add
VMName	=	All values	+

If you select multiple values for a dimension, autoscale will aggregate the metric across the selected values, not evaluate the metric for each values individually.

60%

40%

20%

3:40 AM

3:45 AM

UTC+05:30

Percentage CPU (Average)

37.97 %

☐ Enable metric divide by instance count ⓘ

Add

anually to a
s during
on

cale to turn

Scale rule

20%

3:40 AM

3:45 AM

UTC+05:30

Percentage CPU (Average)

37.97 %

☐ Enable metric divide by instance count ⓘ

Operator *
Greater than

Metric threshold to trigger scale action * ⓘ
70 %

Duration (minutes) * ⓘ
10

Time grain (minutes) ⓘ
1

Time grain statistic * ⓘ
Average

Time aggregation * ⓘ
Average

Action

Operation *
Increase count by

Cool down (minutes) * ⓘ
5

instance count *
1 ✓

Add

3:47 AM
1/26/2025

If cpu utilization is less than 50% for the duration of 10 mins decrease the count by 1

Scale rule



Percentage CPU (Average)

28.19 %

☐ Enable metric divide by instance count ⓘ

Operator *

Less than

Metric threshold to trigger scale action * ⓘ

50

%

Duration (minutes) * ⓘ

10

Time grain (minutes) ⓘ

1

Time grain statistic * ⓘ

Average

Time aggregation * ⓘ

Average

Action

Operation *

Decrease count by

Cool down (minutes) * ⓘ

5

instance count *

1



Add

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app-set | Scaling

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Save Discard Refresh Logs Feedback

Autoscale setting name * app-set-Autoscale-243

Resource group Demo-RG

Predictive autoscale Mode Disabled Pre-launch setup of instances (minutes) 0

Enable Forecast only or Predictive autoscale. [Learn more about Predictive autoscale.](#)

Default * Auto created default scale condition

Delete warning

The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode ☒ Scale based on a metric ☐ Scale to a specific instance count

Rules

Scale out

When app-set (Average) Percentage CPU > 70 Increase count by 1

Scale in

When app-set (Average) Percentage CPU < 50 Decrease count by 1

+ Add a rule

Instance limits

Minimum * 1 Maximum * 3 Default * 2

Schedule

This scale condition is executed when none of the other scale condition(s) match

+ Add a scale condition

Our autoscaling group took affect and now the number of instance count is 1

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app-set | Instances

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Edit columns Refresh Export to CSV Open query Assign tags Start Restart Stop Hibernate Reimage Delete Detach Upgrade Protection

Filter for any field... Status equals all Add filter

Showing 1 to 1 of 1 records.

Name	Computer name	Status	Type	Provisioning state	Size
app-set_7d6df806	app-set01SVPQE	Running	VM	Succeeded	Standard_B2ms

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Virtual machines

Default Directory (maheeshkumar0091989@gmailonmicrosoft.com)

Create Switch to classic Reservations Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete Services Maintenance

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

Showing 1 to 1 of 1 records.

Name	Subscription	Resource group	Location	Status	Operating system	Size	Public IP address	Disks	Update status
app-set_7d6df806	Manohar Subscription	Demo-RG	Central India	Running	Windows	Standard_B2ms	52.172.162.23	1	Enable periodic assessment

This complete Virtual machine scale set assignment