

Implement a solution to automatically scale the virtual machine resources to handle higher workloads and scale back during periods of low demand.

Create a VMSS using the Azure Portal:

### Sign in to the Azure portal:

- Go to Azure portal and sign in with your Azure account.

### Navigate to Virtual Machine Scale Sets:

- In the left sidebar, click on "Virtual machine scale sets."

### Click on "+ Add" to create a new VMSS:

- Click the "+ Add" button to start the creation process.

### Basic settings:

- Fill in the basic settings for the VMSS, including:
- Subscription: Choose the Azure subscription you want to use.
- Resource group: Create a new one or use an existing resource group.
- VMSS Name: Give your VMSS a unique name.
- Region: Select the Azure region for your VMSS.
- Operating System: Choose the operating system for your VMSS instances.

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## Create a virtual machine scale set

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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) VMSS  
[Create new](#)

### Scale set details

Virtual machine scale set name \* | VMSS-WEB

Region \* | (Asia Pacific) Central India

Availability zone ⓘ | Zones 1, 2, 3

☒ Autoscaling can help you respond to an outage by scaling out new instances in another zone. Turn on Autoscaling in the [Scaling tab](#).

### 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 \* ⓘ | ☒ Flexible: achieve high availability at scale with identical or multiple virtual

## Instance details:

- Configure instance details such as:
- Image: Choose the operating system image for your VMSS instances.
- Size: Select the size of the virtual machines in the scale set.

### Instance details

Image \* ⓘ

Windows Server 2019 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\_B1s - 1 vcpu, 1 GiB memory (₹871.42/month) (free services eligible) ▾

[See all sizes](#)

Enable Hibernation (preview) ⓘ

☐

ⓘ

To enable Hibernation, you must register your subscription. [Learn more](#) ↗

### Administrator account

Username \* ⓘ

Azuser

✓

Password \* ⓘ

••••••••

✓

Confirm password \* ⓘ

••••••••

✓

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## Network settings:

- Configure network settings, including:
- Virtual network: Choose the virtual network for your VMSS.
- Subnet: Select the subnet within the virtual network.
- Public IP address: Configure if needed.

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Define network connectivity for your virtual machine by configuring network interface card (NIC) settings. You can control ports, inbound and outbound connectivity with security group rules, or place behind an existing load balancing solution. [Learn more about VMSS networking](#)

### Virtual network configuration

Azure Virtual Network (VNet) enables many types of Azure resources to securely communicate with each other, the internet, and on-premises networks. [Learn more about VNets](#)

Virtual network \* 📘 (New) VMSS-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 SECU...	ACCELERATED N...	
<input type="checkbox"/>	VMSS-vnet-nic01	No	default (10.0.0.0/20)	Basic	Off	<a href="#">✎</a>

### 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.

⚠ To allow traffic from your load balancing product, please update the appropriate port configuration on your network security group associated with your network interface.

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### Scaling:

- Set the scaling options, including:
- Instance count: Define the initial and maximum number of instances.
- Automatic scaling: Configure auto-scaling rules

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## Create a virtual machine scale set

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An Azure virtual machine scale set can automatically increase or decrease the number of VM instances that run your application. This automated and elastic behavior reduces the management overhead to monitor and optimize the performance of your application. [Learn more about VMSS scaling](#)

Initial instance count \* ⓘ

**Scaling**

Scaling policy ⓘ ☐ Manual ☒ Custom

Minimum number of instances \* ⓘ

Maximum number of instances \* ⓘ  ✓

**Scale out**

CPU threshold (%) \* ⓘ  ✓

Duration in minutes \* ⓘ  ✓

Number of instances to increase by \* ⓘ  ✓

**Scale in**

CPU threshold (%) \* ⓘ  ✓

Number of instances to decrease by \* ⓘ  ✓

**Predictive autoscaling**

Enable predictive autoscaling forecast ⓘ ☐

**Diagnostic logs**

Collect diagnostic logs from Autoscale ⓘ ☐

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Management and Advanced settings:

- Configure additional settings such as boot diagnostics, extensions, and availability options.

Tags:

- Add tags if you want to categorize your VMSS.

Review and create:

- Review the summary of your configuration. If everything looks good, click the "Create" button to start the deployment.

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CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20240118114742 | Overview

Deployment

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Overview

Inputs

Outputs

Template

### Deployment is in progress


Deployment name : CreateVmss-MicrosoftWindowsServer.WindowsServer-2-20240118114742  
Subscription : Free Trial  
Resource group : VMSS  
Start time : 18/01/2024, 12:06:23  
Correlation ID : 428b7e86-ae6d-478c-af0e-17c867f62123

Deployment details

Resource	Type	Status	Operation details
basicNsgVMSS...	Network security group	Created	<a href="#">Operation details</a>
Azureloadbalan...	Public IP address	Created	<a href="#">Operation details</a>
VMSS-vnet	Virtual network	Created	<a href="#">Operation details</a>

Give feedback

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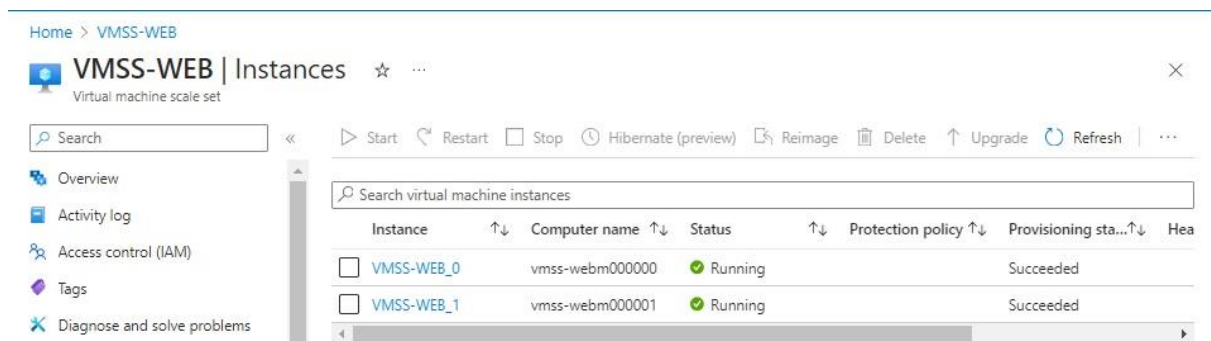
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## Deployment:

- Once the deployment is complete, you'll see a notification. You can also navigate to the resource group to check the deployment status.

- Initially it has two instances running



- Based on the workload it has automatically scale out to 1 instance:

