Module 4: Assignment – 3

Create a Virtual Machine Scale Set (VMSS)   ⋯

⚠ Changing Basic options may reset selections you have made. Review all options prior to creating the virtual machine.

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 *	Free Trial ⌄
└ Resource group *	MyUbuntuScaleSet ⌄
	Create new

Scale set details

Virtual machine scale set name *	MyUbuntuScaleSet ✓
Region *	(US) East US ⌄
Availability zone ⓘ	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 * ⓘ	○ **Flexible:** achieve high availability at scale with identical or multiple virtual machine types
	● **Uniform:** optimized for large scale stateless workloads

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Edit Condition

Default condition

Condition name *

Default condition

Scale mode

○ **Manually update the capacity:** Maintain a fixed amount of instances, on any schedule.

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

Default instance count * ⓘ

1

Instance limit

Minimum * ⓘ

1

The minimum count of instances this condition will scale down to is 1.

Maximum * ⓘ

5

The maximum count of instances this condition will scale up to is 5.

Scale out

CPU threshold greater than * ⓘ

75

Every time the average CPU usage is greater than 75%.

Increase instance count by * ⓘ

1

The condition will increase the instance count by 1 instances

Scale in

CPU threshold less than * ⓘ

25

Save

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

Diagnostic logs: Disabled
Scale-in policy: Default
Force delete: Disabled

Configure

Instance details

Image * ⓘ

<div style="border:1px solid #ccc; padding:4px;">🔴 Ubuntu Server 24.04 LTS - x64 Gen2 (free services eligible) ⌄</div>

See all images | Configure VM generation

VM architecture ⓘ
- ◯ Arm64
- ◉ x64

Size * ⓘ

<div style="border:1px solid #ccc; padding:4px;">Standard_B1s - 1 vcpu, 1 GiB memory (₹631.61/month) (free services eligible) ⌄</div>

See all sizes

Enable Hibernation ⓘ
☐
ℹ Hibernate does not currently support Uniform Orchestration mode. Learn more ⧉

Administrator account

Authentication type ⓘ
- ◯ Password
- ◉ SSH public key

Username * ⓘ

<div style="border:1px solid #ccc; padding:4px;">azureuser ✓</div>

SSH public key source

<div style="border:1px solid #ccc; padding:4px;">Generate new key pair ⌄</div>

SSH Key Type
- ◉ RSA SSH Format
- ◯ Ed25519 SSH Format

ℹ Ed25519 provides a fixed security level of no more than 128 bits for 256-bit key, while RSA could offer better security with keys longer than 3072 bits.

Key pair name *

<div style="border:1px solid #ccc; padding:4px;">azz ✓</div>

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MyUbuntuScaleSet | Instances ☆ ⋯ ✕
Virtual machine scale set

🔍 Search ◇ «

🔲 Overview
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   🔒 Locks
> Availability + scale
> Security
> Operations
> Monitoring
> Automation

▷ Start   ↻ Restart   🔲 Stop   🕐 Hibernate   🔳 Reimage   🗑️ Delete   ↑ Upgrade   ↻ Refresh | 🔑 Protection

🔍 Search virtual machine instances

Instance ↑↓	Computer name ↑↓	Status ↑↓	Protection policy ↑↓	Provisioning sta...↑↓	Health state
☐ MyUbuntuScaleSet_0	myubuntus000000	✅ Running		Succeeded	