

Lab 4: Resizing Storage in an Azure Virtual Machine

Objectives

1. Understand how to modify the VM size in Azure.
2. Learn how scaling affects virtual hardware (CPU, RAM, storage performance).
3. Perform a VM resize operation using the Azure Portal.
4. Verify the new VM size after resizing.

Tools and Technologies Used

1. Azure Portal
2. Azure Virtual Machine (Ubuntu or Windows)
3. VM Size Management / Availability + Scale options

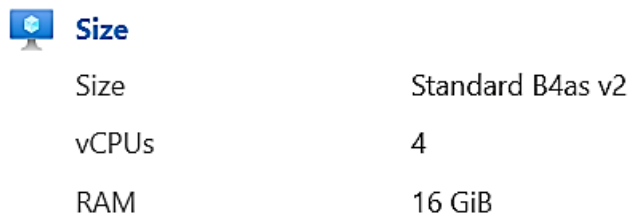
Steps Performed

Step 1: Check Current VM Size


Before resizing, the current VM size was observed under:

Azure Portal > Virtual Machine > Overview

This showed the existing configuration (vCPUs, RAM, temporary storage capacity).



The screenshot shows the 'Size' tab in the Azure Portal for a virtual machine. It displays the current configuration: Standard B4as v2, 4 vCPUs, and 16 GiB of RAM.

 Size	
Size	Standard B4as v2
vCPUs	4
RAM	16 GiB

Step 2: Navigate to VM Size Settings

Open Azure Portal.

Go to: Virtual Machine > Availability + scale > Size

A list of available VM sizes appears, based on the region and your subscription.

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

sandeshcsit21@oic.edu...
OICEDUNP (OICEDUNP)

me > Compute infrastructure | Virtual machines > UBUNTU-VM

UBUNTU-VM | Size ☆ ...

Virtual machine

Search by VM size...

vCPUs: All RAM (GiB): All Display cost: Monthly Add filter

Showing 1028 VM sizes. | Subscription: Azure for Students | Region: Central India | Current size: Standard_B4as_v2 | Learn more about VM sizes

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disk	Max IOPS	Local storage (GiB)	Premium disk	Cost/month
Most used by Azure users								
The most used sizes by users in Azure								
B2as_v2	General purpose	2	8	4	3750	N/A	Supported	\$35.92
B4as_v2	General purpose	4	16	8	6400	N/A	Supported	\$71.83
B-Series v2								
Ideal for workloads that do not need continuous full CPU performance								
B2as_v2	General purpose	2	8	4	3750	N/A	Supported	\$35.92
B4as_v2	General purpose	4	16	8	6400	N/A	Supported	\$71.83
B2als_v2	General purpose	2	4	4	3750	N/A	Supported	\$17.96
B2ats_v2 (free services el	General purpose	2	1	4	3750	N/A	Supported	\$4.49
B2ls_v2	General purpose	2	4	4	3750	N/A	Supported	\$32.70
B2s_v2	General purpose	2	8	4	3750	N/A	Supported	\$65.41
B2ts_v2	General purpose	2	1	4	3750	N/A	Supported	\$8.18

Resize

Prices presented are estimates in USD that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

Give feedback

Step 3: Select a New VM Size

Browse through available VM SKU options.

Choose the desired new VM size based on CPU/RAM requirements.

Click:

Resize

Azure begins reallocating the VM with the new hardware configuration.

During resizing, the VM restarts automatically.

Microsoft Azure

Search resources, services, and docs (G+/)

Copilot

sandeshcsit21@oic.edu...
OICEDUNP (OICEDUNP)

me > Compute infrastructure | Virtual machines > UBUNTU-VM

UBUNTU-VM | Size ☆ ...

Virtual machine

Search by VM size...

vCPUs: All RAM (GiB): All Display cost: Monthly Add filter

Showing 1028 VM sizes. | Subscription: Azure for Students | Region: Central India | Current size: Standard_B2as_v2 | Learn more about VM sizes

Group by series

VM Size	Type	vCPUs	RAM (GiB)	Data disk	Max IOPS	Local storage (GiB)	Premium disk	Cost/month
Most used by Azure users								
The most used sizes by users in Azure								
B2as_v2	General purpose	2	8	4	3750	N/A	Supported	\$35.92
B4as_v2	General purpose	4	16	8	6400	N/A	Supported	\$71.83
B-Series v2								
Ideal for workloads that do not need continuous full CPU performance								
B2as_v2	General purpose	2	8	4	3750	N/A	Supported	\$35.92
B4as_v2	General purpose	4	16	8	6400	N/A	Supported	\$71.83
B2als_v2	General purpose	2	4	4	3750	N/A	Supported	\$17.96
B2ats_v2 (free services el	General purpose	2	1	4	3750	N/A	Supported	\$4.49
B2ls_v2	General purpose	2	4	4	3750	N/A	Supported	\$32.70
B2s_v2	General purpose	2	8	4	3750	N/A	Supported	\$65.41
B2ts_v2	General purpose	2	1	4	3750	N/A	Supported	\$8.18

Resize

Prices presented are estimates in USD that include only Azure infrastructure costs and any discounts for the subscription and location. The prices don't include any applicable software costs. Final charges will appear in your local currency in cost analysis and billing views. View Azure pricing calculator.

Give feedback

Step 4: Verify New VM Size

After the resize, operation completes:

Go back to:

Virtual Machine > Overview

Confirm the updated VM specifications (vCPU count, RAM, storage throughput).

The VM now runs with the newly selected hardware resources.



Size

Size	Standard B4as v2
vCPUs	4
RAM	16 GiB

Results

Before Resize

VM had resized hardware configuration (CPU/RAM/storage throughput).

After Resize

VM size was successfully upgraded.

Enhanced CPU, memory, and potentially better I/O performance.

Conclusion

In this lab, the VM size was successfully changed using Azure's built-in scaling functionality. Resizing allows rapid hardware adjustments without recreating the VM. The process involved navigating to the VM size page, selecting a new SKU, applying the change, and verifying the new configuration. This demonstrates how Azure makes vertical scaling simple and efficient.