



St. JOSEPH'S
GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

PLACEMENT EMPOWERMENT PROGRAM

Cloud Computing & DevOps Centre

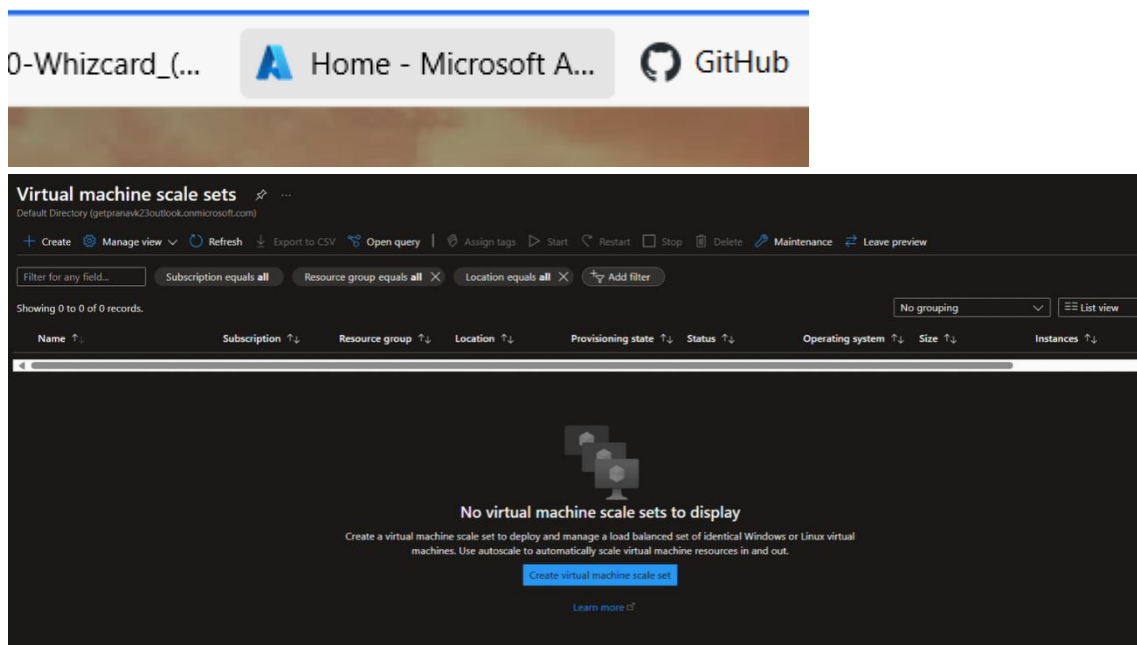
Implementing auto-scaling in Azure: Set up an auto-scaling groups in Azure VMs for handling various workloads.

NAME :- CHELSIAH M

Dept:CSE

Step-by-step process:

Step 1: Open the Azure portal and navigate to VM Scale Sets.



Step 2: create vmss with the required configurations and enable auto scale

Home > Virtual machine scale sets >

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 *

Resource group *
[Create new](#)

Scale set details

Virtual machine scale set name *

Region *

Availability zone ⓘ

Orchestration

< Previous Next: Spot > Review + create

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

+ Create new nic Delete

NAME	CREATE PUBLI...	SUBNET	NETWORK SECU...	ACCELERATED N...
vnet-centralindia-nic01	Yes	snet-centralindia-1 (1...	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.

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

Select a load balancer * ⓘ

[Create a load balancer](#)

< Previous Next: Management > Review + create

Details such as subscription and resource group will be inherited from the virtual that you're creating. A default IP, backend pool, and load balancer rule will be created on your behalf, though certain configurations can be changed if desired.

Load balancer name *

Type * ⓘ

☒ **Public**
Provides outbound connections for machines inside your virtual network public load balancers.

☐ **Internal**
Used to load balance traffic inside your virtual network. A load balancer frontend is accessed from an on-premises network in a hybrid scenario.

Protocol * ⓘ

☒ TCP

☐ UDP

Rules

Rules

☒ Load balancer rule

☒ Inbound NAT rule

Create Cancel

Step 3: Go to the Scaling page in your VMSS.

Then add scale-out rule and scale-in rule.

The screenshot shows the 'Scaling' page for a Virtual Machine Scale Set (VMSS) named 'vmssmad'. The page is divided into several sections:

- Virtual machine scale set details:** Shows the name 'vmssmad' and the resource group 'vmssmad_group'.
- Scale rule configuration:** The 'Scale rule' is currently set to 'scale in cond' and 'scale out cond'. The 'Scale rule' is currently set to 'scale in cond' and 'scale out cond'.
- Scale rule details:** The 'Scale rule' is currently set to 'scale in cond' and 'scale out cond'. The 'Scale rule' is currently set to 'scale in cond' and 'scale out cond'.
- Scale rule graph:** A line graph showing the 'Percentage CPU (average)' over time. The graph shows a peak in CPU usage around 3:00 PM, followed by a decline.

Step 4: Testing

```
CPU Load Test
CPU Load Test
CPU Load Test
CPU Load Test
CPU Load Test
CPU Load Test
CPU Load Test
```

Step 5: Go to Azure Monitor for viewing the metrics of your VMSS.

