# Azure VM

**CLI**

Create a Resource Group

*az group create --name $MY\_RESOURCE\_GROUP\_NAME --location $REGION*

Create Linux VM

*export MY\_VM\_NAME="myVM "*

*export MY\_USERNAME=”azureuser”*

*export MY\_VM\_IMAGE="Canonical:0001-com-ubuntu-minimal-jammy:minimal-22\_04-lts-gen2:latest"*

*export PASSWORD=”<password>”*

*az vm create \*

*--resource-group $MY\_RESOURCE\_GROUP\_NAME \*

*--name $MY\_VM\_NAME \*

*--image $MY\_VM\_IMAGE \*

*--admin-username $MY\_USERNAME \*

*--assign-identity \*

*--generate-ssh-keys \*

*--public-ip-sku Standard*

*export IP\_ADDRESS=$(az vm show --show-details --resource-group $MY\_RESOURCE\_GROUP\_NAME --name $MY\_VM\_NAME --query publicIps --output tsv)*

SSH into VM

*ssh -o StrictHostKeyChecking=no $MY\_USERNAME@$IP\_ADDRESS*

**Powershell**

Create a Resource Group

*New-AzResourceGroup -Name 'myResourceGroup' -Location 'EastUS'*

Create a New VM

*New-AzVm `*

*-ResourceGroupName 'myResourceGroup' `*

*-Name 'myVM' `*

*-Location 'East US' `*

*-image Debian11 `*

*-size Standard\_B2s `*

*-PublicIpAddressName myPubIP `*

*-OpenPorts 80 `*

*-GenerateSshKey `*

*-SshKeyName mySSHKey*

Install the NGINX web server

*Invoke-AzVMRunCommand `*

*-ResourceGroupName 'myResourceGroup' `*

*-Name 'myVM' `*

*-CommandId 'RunShellScript' `*

*-ScriptString 'sudo apt-get update && sudo apt-get install -y nginx'*

Get Public IP and then access using IP (https://<IP>) from browser

*Get-AzPublicIpAddress -Name myPubIP -ResourceGroupName myResourceGroup | select "IpAddress"*

**Few VM AzCLI commands**

View current size

*az vm show --resource-group myResourceGroupVM --name myVM --query hardwareProfile.vmSize*

List available sizes

*az vm list-vm-resize-options --resource-group myResourceGroupVM --name myVM --query [].name*

Deallocate VM first to resize

*az vm deallocate --resource-group myResourceGroupVM --name myVM*

To resize to Standard\_GS1

*az vm resize --resource-group myResourceGroupVM --name myVM --size Standard\_GS1*

Restart VM after resize

*az vm start --resource-group myResourceGroupVM --name myVM*

View state (running,deallocated,stopped…) of VM

*az vm get-instance-view --name myVM --resource-group myResourceGroupVM --query instanceView.statuses[1] --output table*

Stop a VM

*az vm stop --resource-group myResourceGroupVM --name myVM*

Delete VM

*az group delete --name myResourceGroupVM --no-wait –yes*