



Minor Project

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Creating two Resource Groups with the name: student1 and student2.

Student 1

The screenshot shows the Microsoft Azure Resource Groups overview page for a resource group named "student1". The page includes a navigation bar with "Microsoft Azure" and "Upgrade" buttons, a search bar, and a user profile. The main content area displays the "student1" resource group details under the "Essentials" section, showing a "Subscription (change)" of "Free Trial", a "Subscription ID" of "b0613033-e9f8-420d-abd0-c7116931aa72", and a "Location" of "East US". A large black arrow points from the right side of the screen towards the bottom right corner of the browser window.

Microsoft Azure Upgrade Search resources, services, and docs (G+)

Home > Resource groups >

Resource groups

Default Directory

student1 Resource group

Create Manage view ...

Search (Ctrl+ /)

Overview Activity log Access control (IAM) Tags Events

Subscription (change)
Free Trial

Subscription ID
b0613033-e9f8-420d-abd0-c7116931aa72

Deployments
No deployments

Location
East US

Tags (change)
Click here to add tags

Filter for any field... Type == all Location == all Add filter

Showing 0 to 0 of 0 records. Show hidden types No grouping List view

Name Type Location

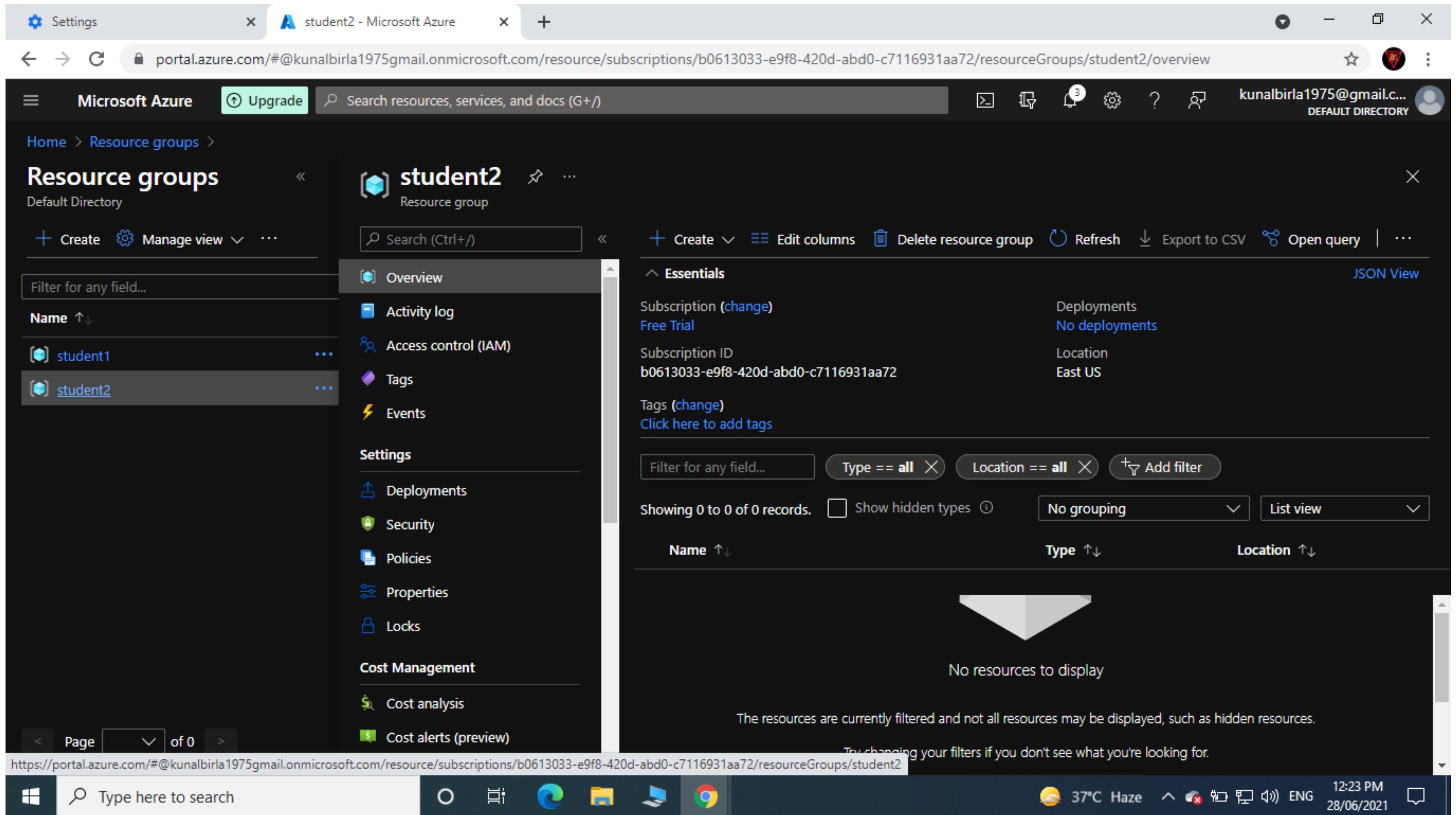
No resources to display

The resources are currently filtered and not all resources may be displayed, such as hidden resources.
Try changing your filters if you don't see what you're looking for.

Page of 0 >

12:23 PM

Student 2



Creating 2 VM's (VMo1 and VMo2) in both the above resource groups respectively.

VM01

The screenshot shows the Microsoft Azure portal interface for a virtual machine named VM01. The top navigation bar includes 'Microsoft Azure', 'Upgrade', a search bar, and a user account section. Below the header, the URL indicates the specific VM details page: 'Home > CreateVm-MicrosoftWindowsServer.WindowsServer-201-20210628133440'. The main content area displays the VM01 details under the 'Essentials' tab. The left sidebar lists various settings and monitoring options. A large black arrow points from the text 'VM01' on the left towards the VM01 details page.

VM01 Virtual machine

Search (Ctrl+ /)

Connect Start Restart Stop Capture Delete Refresh Open in mobile

Overview Activity log Access control (IAM) Tags Diagnose and solve problems

Resource group (change) : student1
Status : Running
Location : Central US
Subscription (change) : Free Trial
Subscription ID : b0613033-e9f8-420d-abd0-c7116931aa72
Tags (change) : Click here to add tags

Operating system : Windows
Size : Standard B1s (1 vcpus, 1 GiB memory)
Public IP address : 23.101.125.165
Virtual network/subnet : student1vnet140/default
DNS name : Not configured

Properties Monitoring Capabilities (8) Recommendations Tutorials

Virtual machine

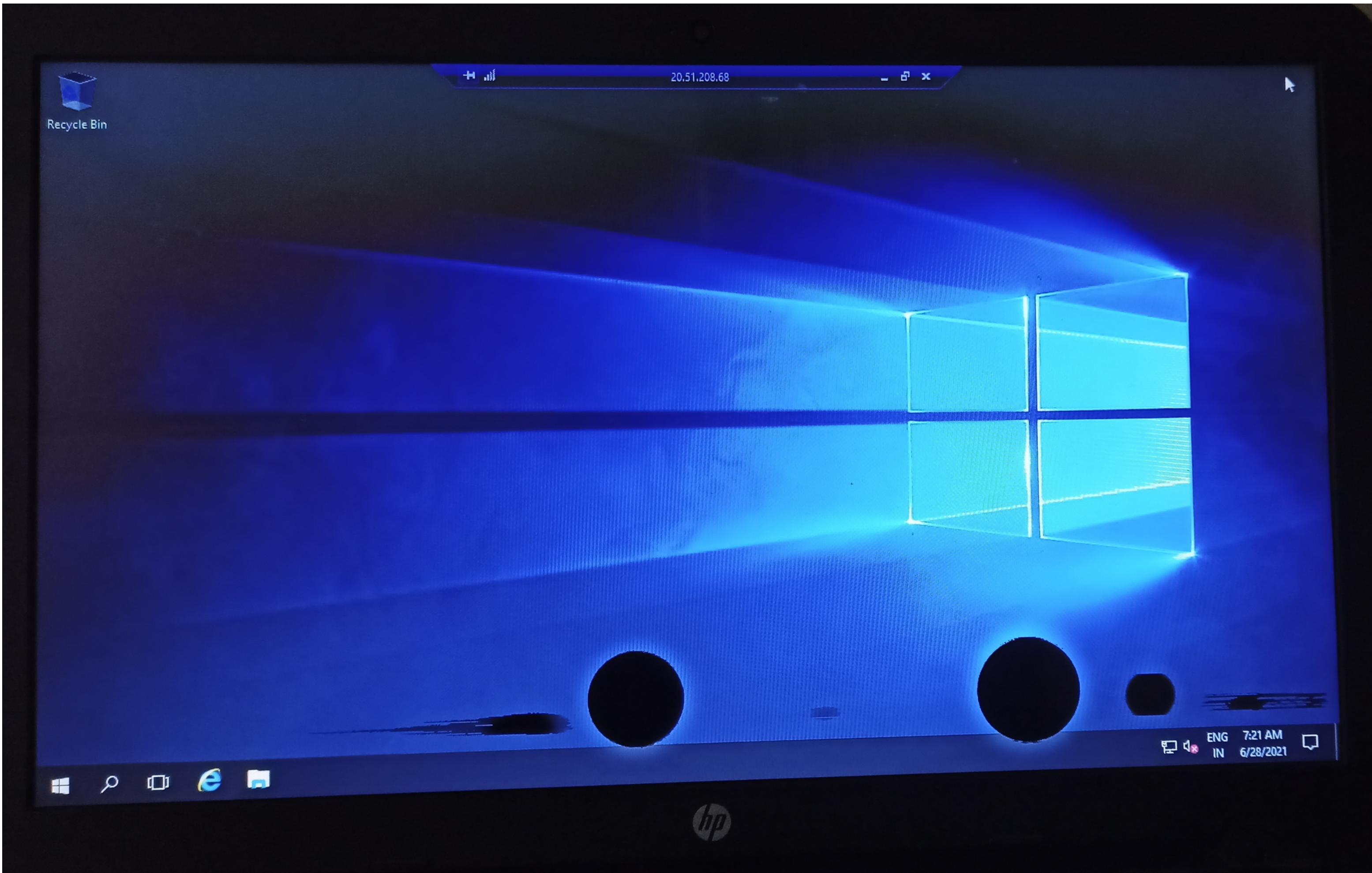
Computer name	VM01
Operating system	Windows
Publisher	MicrosoftWindowsServer
Offer	WindowsServer
Plan	2016-Datacenter
VM generation	V1
Agent status	Not Ready

Networking

Public IP address	23.101.125.165
Public IP address (IPv6)	-
Private IP address	10.2.0.4
Private IP address (IPv6)	-
Virtual network/subnet	student1vnet140/default
DNS name	Configure

VM01_key.pem Show all X

Live VM01





NOTE:-

Both the prior VM'S cannot be part of the same availability zone,so we have created availability zone avail01 for both the VM'S seperately.

Fault Domain and Update domain for both the VM's

VM01

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes 'Settings', 'avail01 - Microsoft Azure', and a search bar. The main content area displays the 'Overview' tab for a resource named 'avail01' (Availability set). The 'Essentials' section provides key details: Resource group (student1), Location (Central US), Subscription (Free Trial), Subscription ID (b0613033-e9f8-420d-abd0-c7116931aa72), Fault domains (2), Update domains (5), Virtual machines (1), Managed (Yes), and Colocation status (N/A). Below this, a table lists the virtual machine 'VM01' with its status as 'Running'. The left sidebar contains a navigation menu with sections like Home, VM01, Overview, Activity log, Access control (IAM), Tags, Settings, Configuration, Virtual machines, Properties, Locks, Automation, Tasks (preview), Export template, Support + troubleshooting, and New support request. At the bottom, there is a file list with 'VM01_key.pem' and a 'Show all' button.

Name	Status	Colocation status	Fault Domain	Update Domain
VM01	Running	N/A	0	0

VM02

Settings x A avail01 - Microsoft Azure x +

← → ⌛ 🔒 portal.azure.com/#@kunalbirla1975gmail.onmicrosoft.com/resource/subscriptions/b0613033-e9f8-420d-abd0-c7116931aa72/resourceGroups/student2/providers/Mic... 🔍 ⚡ 🌐 ⚙️ ? ⚙️ kunalbirla1975@gmail.c... DEFAULT DIRECTORY

Microsoft Azure Upgrade Search resources, services, and docs (G+/-) 11 ? ? X

Home > Virtual machines > VM02 >

avail01 ...

Availability set

Search (Ctrl+/...) Delete Refresh

Overview JSON View

Activity log

Access control (IAM)

Tags

Subscription (change) : Free Trial

Subscription ID : b0613033-e9f8-420d-abd0-c7116931aa72

Fault domains : 2

Location : Central US

Update domains : 5

Virtual machines : 1

Managed : Yes

Colocation status : N/A

Search virtual machines

Name	Status	Colocation status	Fault Domain	Update Domain
VM02	Running	0	0	0

VM01_key.pem Show all

Adding additional disks to both the VM's

VM01

The screenshot shows the Microsoft Azure portal interface for managing disks of a virtual machine named VM01. The left sidebar navigation bar is visible, showing options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Networking, Connect, Windows Admin Center, Disks (selected), Size, Security, Advisor recommendations, Extensions, Continuous delivery, Availability + scaling, and Configuration.

The main content area displays two sections: "OS disk" and "Data disks".

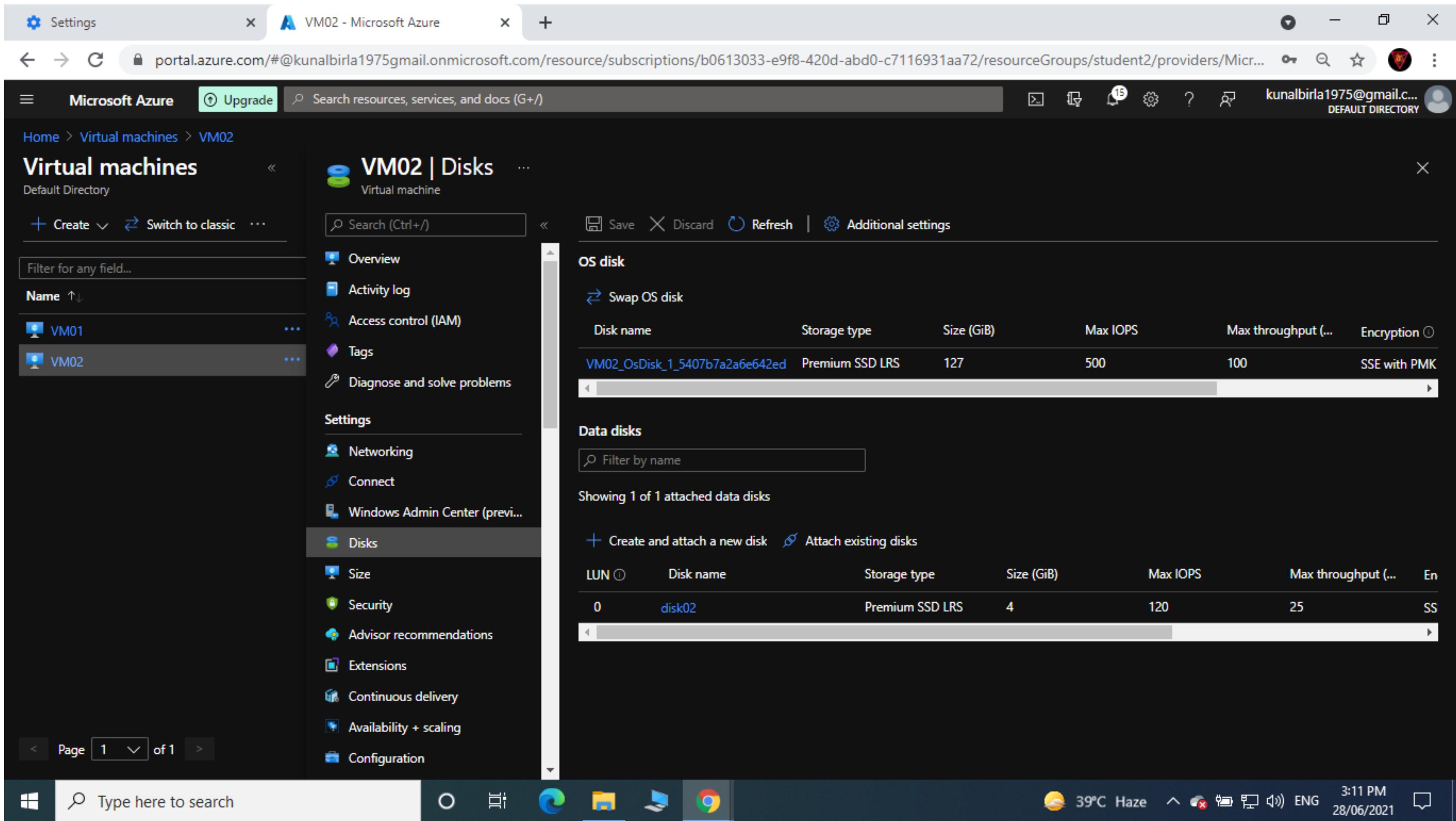
OS disk:

Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MiB/s)	Encryption	Host caching
VM01_OsDisk_1_06d5983764e24f1390	Premium SSD LRS	127	500	100	SSE with PMK	Read/write

Data disks:

LUN	Disk name	Storage type	Size (GiB)	Max IOPS	Max throughput (MiB/s)	Encryption	Host caching
0	disk01	Premium SSD LRS	8	120	25	SSE with PMK	None

At the bottom of the page, there is a search bar and a toolbar with icons for File, Home, Recent, Task View, Start, Edge, File Explorer, Taskbar, and Google Chrome.



Alert for server down

VM01

The screenshot shows the Microsoft Azure portal interface for managing alert rules. The URL in the address bar is `portal.azure.com/#blade/Microsoft_Azure_Monitoring/AlertVNextRulesViewModel/queryInputs/%7B"subscriptions"%3A"b0613033-e9f8-420d-abd0-c7116931... Paused`. The top navigation bar includes the Microsoft Azure logo, an Upgrade button, a search bar, and user information for `kunalbirla1975@gmail.c...` in the DEFAULT DIRECTORY.

The current path is `Home > Virtual machines > VM01 > Alert rules`.

The toolbar at the top of the alert rules list includes buttons for `New alert rule`, `Edit columns`, `Manage actions`, `View classic alerts`, `Refresh`, `Enable`, `Disable`, and `Delete`.

Filtering options at the top of the list include `Subscription : Free Trial`, `Resource group : student1`, `Resource type : All`, `Resource : VM01`, `Signal type : All signal types`, and `Status : Enabled`.

A message at the top of the list states `Displaying 1 - 1 rules out of total 1 rules`.

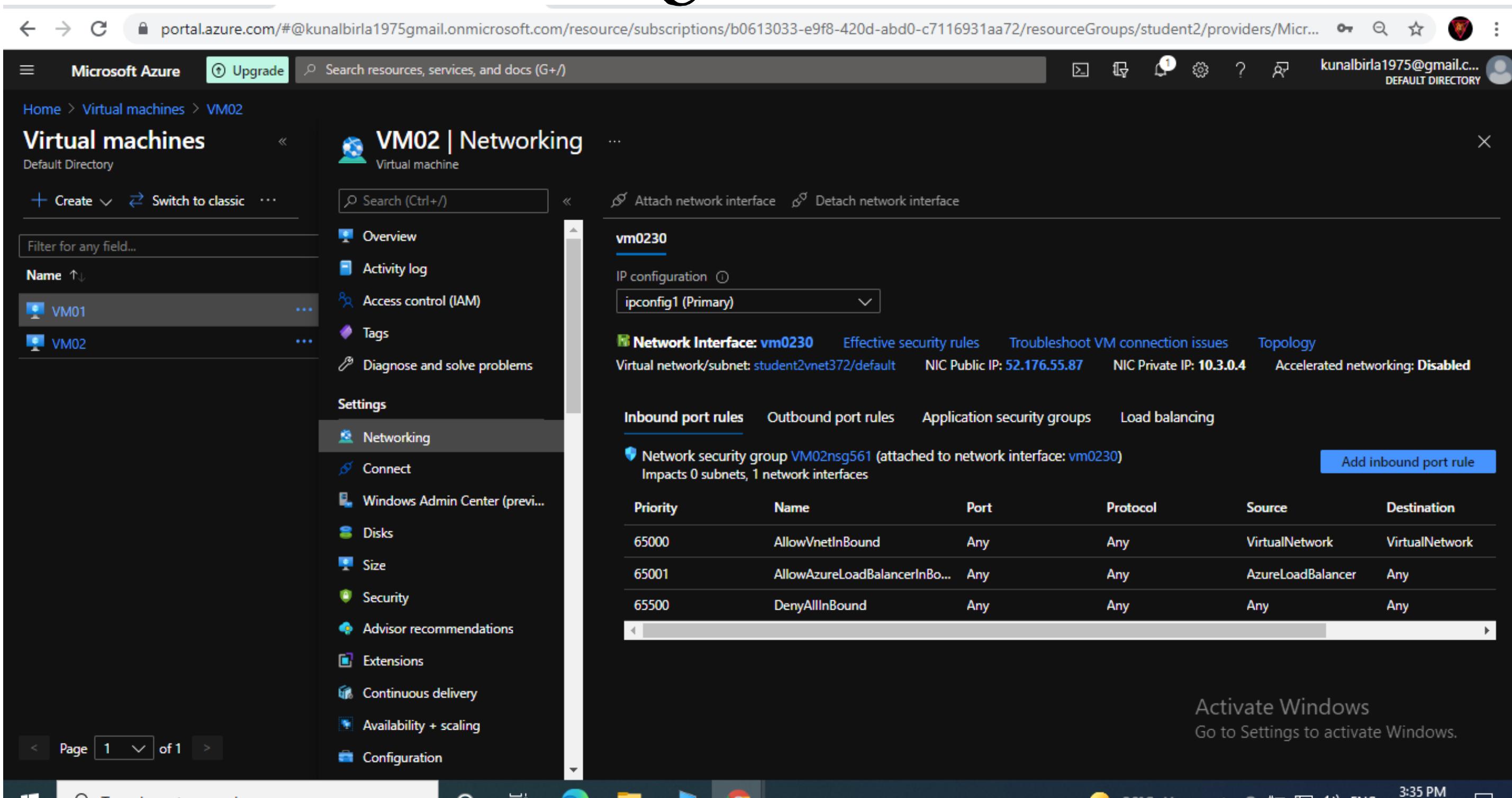
The alert rule listed is:

Name	Condition	Status	Target resource	Target resource type	Signal type
Server down	Category equals Administrative an...	Enabled	VM01	Virtual machines	Activity log

At the bottom of the page, there are five thumbnail images of stock photos: `shutterstock_4382...jpg`, `stock-photo-com...jpg`, `stock-photo-arial-....jpg`, `stock-image-5948...jpg`, and `stock-image-3856...jpg`, followed by a `Show all` link.

Removing RDP PORT rule and checking weather we are able to login into the VM or not

VM02



The screenshot shows the Microsoft Azure portal interface for managing virtual machines. On the left, the 'Virtual machines' blade lists two VMs: VM01 and VM02. VM02 is selected. The main pane displays the 'Networking' settings for VM02, specifically the 'Inbound port rules' section. The table shows three existing rules:

Priority	Name	Port	Protocol	Source	Destination
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork
65001	AllowAzureLoadBalancerInBo...	Any	Any	AzureLoadBalancer	Any
65500	DenyAllInBound	Any	Any	Any	Any

A large black arrow points from the right side of the slide towards the 'Inbound port rules' table.

Microsoft Azure [Upgrade](#) [...](#) [?](#) [R](#) [kunalbirla1975@gmail.c...
DEFAULT DIRECTORY](#)

Home > Virtual machines >

Virtual machines

Default Directory

+ Create [Switch to classic](#) ...

Filter for any field...

Name	...
VM01	...
VM02	...

VM02 Virtual machine

[Overview](#) [Activity log](#) [Access control](#) [Tags](#) [Diagnose and](#) [Networking](#) [Connect](#) [Windows Admin Center \(previ...\)](#) [Disks](#) [Size](#) [Security](#) [Advisor recommendations](#) [Extensions](#) [Continuous delivery](#) [Availability + scaling](#) [Configuration](#)

[Delete](#) [Refresh](#) [Open in mobile](#)

[JSON View](#)

Remote Desktop Connection

Remote Desktop can't connect to the remote computer for one of these reasons:

- 1) Remote access to the server is not enabled
- 2) The remote computer is turned off
- 3) The remote computer is not available on the network

Make sure the remote computer is turned on and connected to the network, and that remote access is enabled.

[OK](#) [Help](#)

Properties [Monitoring](#) [Capabilities \(8\)](#) [Recommendations](#) [Tutorials](#)

Virtual machine

Computer name	VM02
Operating system	Windows (Windows Server 2016 Datacenter)
Publisher	MicrosoftWindowsServer
Offer	WindowsServer
Plan	2016-Datacenter
VM generation	V1

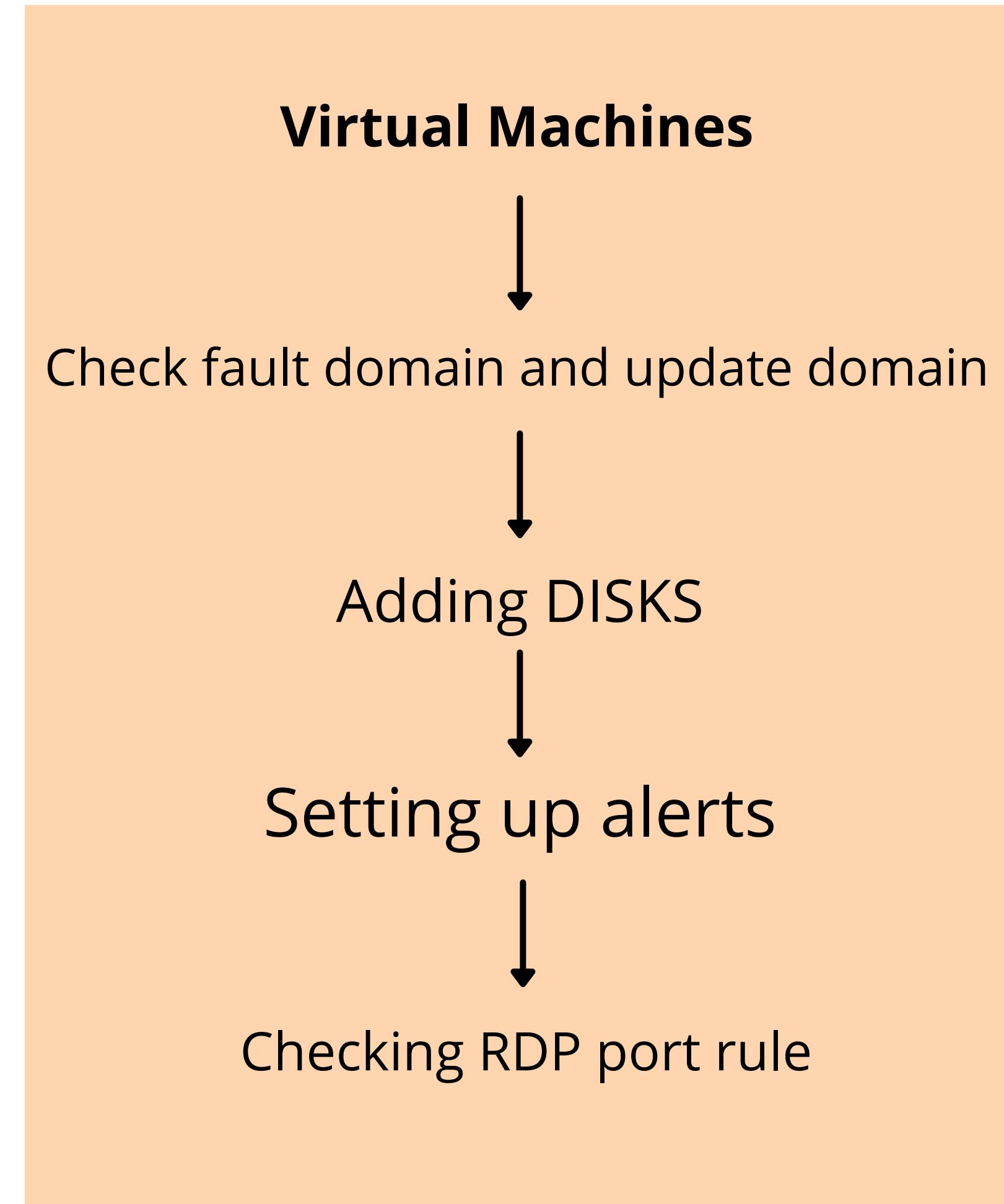
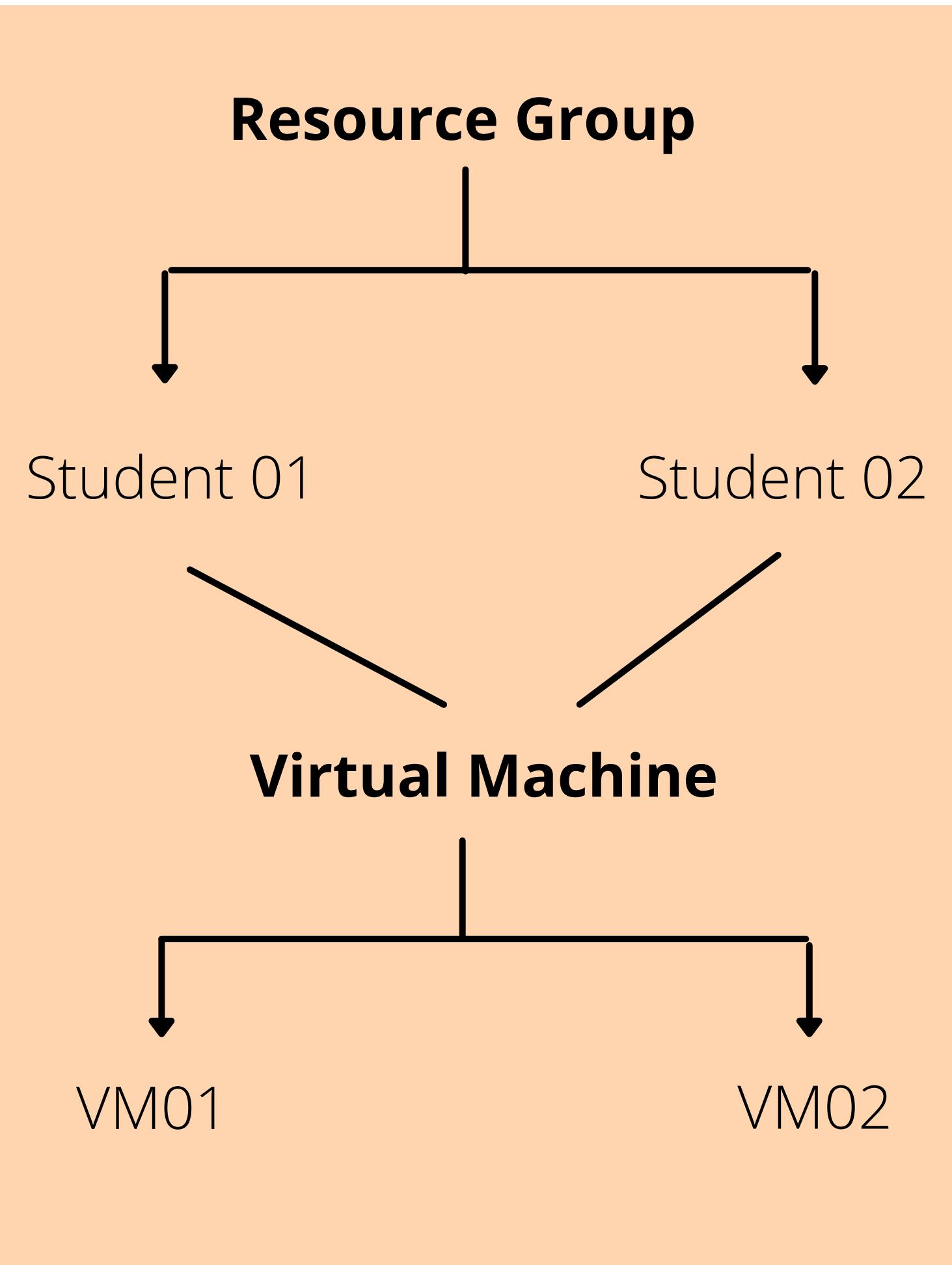
Networking

Public IP address	52.176.55.87
Public IP address (IPv6)	-
Private IP address	10.3.0.4
Private IP address (IPv6)	-
Virtual network/subnet	student2vnet372/default
DNS name	Not configured

[Activate Windows](#)

Type here to search 39°C Haze 3:36 PM
28/06/2021 ENG

architecture
diagram





Thank you!