

# Cloud Project And Video Explainer

**Project Name:** NexGenGamer blog site

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**Student id:** 35488112

**Unit:** ICT1711

**IP address:** 172.164.225.6

**DNS:** <https://nexgengamers.site/>

## Introduction

The proposed cloud project is a gaming blog, designed to provide gaming enthusiasts with news, reviews, and community discussions. The blog will cover a wide range of gaming topics, including industry updates, game releases, strategies, and gaming hardware reviews. The primary goal is to create an engaging platform where gamers can stay informed and share their thoughts on various gaming-related topics.

## Design of my Microsoft server.

Microsoft Azure

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

Copilot

35488112@student.mur... MURDOCH UNIVERSITY

Home >

myVm Virtual machine

Search

Advisor (1 of 5): Migrate workload to D-series or better virtual machine →

Help me copy this VM in any region

Connect Start Restart Stop Hibernate Capture Delete Refresh Open in mobile

Essentials

Resource group (move) myVm\_group

Status Running

Location UAE North (Zone 2)

Subscription (move) Azure for Students

Subscription ID b043f8c6-10c3-48b9-8b4e-782253eca81a

Availability zone 2

Operating system Linux (ubuntu 24.04)

Size Standard B1s (1 vcpu, 1 GiB memory)

Public IP address 172.164.225.6

Virtual network/subnet myVm-vnet/default

DNS name Not configured

Health state -

Time created 2025-03-02, 8:06 p.m. UTC

JSON View

## Installing apache

```
azureuser@myVm:~$ sudo apt install apache2
```

## Upgrading apache

```
azureuser@myVm:~$ sudo apt upgrade apache2
```

## Now connecting to Ubuntu

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

Home > myVm

myVm | Connect

Virtual machine

Search

Refresh Troubleshoot More Options

Connecting using Public IP address | 172.164.225.6

Admin username azureuser

Port (change) 22 Check access

Just-in-time policy Unsupported by plan

Recommended

SSH using Azure CLI

Quickly connect in browser. Supports Microsoft Entra ID authentication. Private key not required.

Public IP address (172.164.225.6)

Native SSH

Connect from your local machine (Windows)

Switch local machine OS

- 1 Configure prerequisites for Native SSH**  
Azure needs to configure some features in order to connect to the VM.
  - Validating prerequisites before configuration
    - Port 22 access  
Validating access to port 22 on the virtual machine. [Learn more](#)
    - Change the port for connecting to this virtual machine on the Connect page of the virtual machine.
  - Public IP address: 172.164.225.6  
A public IP address is required to connect via this connection method.

Validating...
- 2 Open a local shell (on Windows)**  
Open Terminal (Windows 11), PowerShell (Windows 10 or less), or a shell of your choice. Or switch the local machine OS above to view more instructions.
- 3 Copy and execute SSH command**  
Provide a path to your SSH private key file on your local machine.  
  
Can't find your private key? [Reset your SSH private key](#)

Close Troubleshooting Give feedback

2.

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

Home > myVm

myVm | Connect

Virtual machine

Search

Refresh Troubleshoot More Options

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Close Troubleshooting Give feedback

3. Type private key

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

Home > myVm

myVm | Connect Virtual machine

Search Refresh Troubleshoot More Options

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

Connect

Bastion Networking Settings Availability + scale Security Backup + disaster recovery Operations Monitorino

Connecting using Public IP address | 172.164.225.6

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Validating access to port 22 on the virtual machine. Learn more

Change the port for connecting to this virtual machine on the Connect page of the virtual machine.

Public IP address: 172.164.225.6

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Validating...

2 Open a local shell (on Windows)

Open Terminal (Windows 11), PowerShell (Windows 10 or less), or a shell of your choice. Or switch the local machine OS above to view more instructions.

3 Copy and execute SSH command

Provide a path to your SSH private key file on your local machine.

~/ssh/id\_rsa.pem

Can't find your private key? Reset your SSH private key

Close Troubleshooting Give feedback

## 4. Run this command

```
Zaid@Zaid:~/Downloads$ ssh -i myvm.pem azureuser@172.164.225.6
Welcome to Ubuntu 24.04.2 LTS (GNU/Linux 6.8.0-1021-azure x86_64)

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:       https://ubuntu.com/pro

System information as of Wed Apr  9 12:47:40 UTC 2025

System load:  0.0          Processes:           116
Usage of /:   7.9% of 28.02GB Users logged in:      0
Memory usage: 37%          IPv4 address for eth0: 10.0.0.4
Swap usage:   0%

* Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.

https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.
```

# DOMAIN

Mohammed.zaid.zaheer logged in as: Zaheer Mistry [Exit access](#)

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Domains

Portfolio

DNS

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Services

Tools

Settings

## Domain Portfolio

Search or copy/paste domains

Folders Profiles Columns Insights

Type Auto-renew Lock Domain Privacy Extensions Expiration Nameservers More

1 domain

<input checked="" type="checkbox"/>	Domain Name	Expiration	Auto-renew	Domain Privacy	Lock
<input type="checkbox"/>	nexgengamers.site	10 Apr 2026	Off	On	On

Mohammed.zaid.zaheer logged in as: Zaheer Mistry [Exit access](#)

## nexgengamers.site

Overview DNS Products

DNS Records Forwarding Nameservers Premium DNS Hostnames DNSSEC Crypto Wallet

**Add a new record**

DNS records define how your domain behaves, like showing your website content and delivering your email.

[Add New Record](#)

**Easily verify domain ownership**

Need to verify ownership of your domain to connect to an external service? We've made it easier than ever.

[Verify Domain Ownership](#)

Filters Actions

	Type	Name	Data	TTL	Delete	Edit
<input type="checkbox"/>	A	@	172.164.225.6	600 seconds		
<input type="checkbox"/>	NS	@	ns57.domaincontrol.com.	1 Hour	Can't delete	Can't edit
<input type="checkbox"/>	NS	@	ns58.domaincontrol.com.	1 Hour	Can't delete	Can't edit

## Now install ssl certificate

```
azureuser@myVm:~$ sudo apt update
```

```
azureuser@myVm:~$ sudo apt install certbot python3-certbot-apache
```

```
azureuser@myVm:~$ sudo certbot --apache
Saving debug log to /var/log/letsencrypt/letsencrypt.log
Enter email address (used for urgent renewal and security notices)
(Enter 'c' to cancel): m.zaid.mistry@gmail.com

-----
Please read the Terms of Service at
https://letsencrypt.org/documents/LE-SA-v1.5-February-24-2025.pdf. You must
agree in order to register with the ACME server. Do you agree?
-----
(Y)es/(N)o: Y

-----
Would you be willing, once your first certificate is successfully issued, to
share your email address with the Electronic Frontier Foundation, a founding
partner of the Let's Encrypt project and the non-profit organization that
develops Certbot? We'd like to send you email about our work encrypting the web,
EFF news, campaigns, and ways to support digital freedom.
-----
(Y)es/(N)o: Y
Account registered.
```

```
-----
1: nexgengamers.site
2: www.nexgengamers.site
-----
Select the appropriate numbers separated by commas and/or spaces, or leave input
blank to select all options shown (Enter 'c' to cancel): 1,2
Requesting a certificate for nexgengamers.site and www.nexgengamers.site

Successfully received certificate.
Certificate is saved at: /etc/letsencrypt/live/nexgengamers.site/fullchain.pem
Key is saved at: /etc/letsencrypt/live/nexgengamers.site/privkey.pem
This certificate expires on 2025-07-08.
These files will be updated when the certificate renews.
Certbot has set up a scheduled task to automatically renew this certificate in t
he background.

Deploying certificate
Successfully deployed certificate for nexgengamers.site to /etc/apache2/sites-av
ailable/000-default-le-ssl.conf
Successfully deployed certificate for www.nexgengamers.site to /etc/apache2/site
s-available/000-default-le-ssl.conf
Congratulations! You have successfully enabled HTTPS on https://nexgengamers.sit
```

**TO MAKE THE WEBSITE HTML CODE:**

**Sudo nano index.html**