

Assignment 03 Atheer Alqannas

Task01:

Create a resource group - Microsoft Azure — Mozilla Firefox

Create a resource group

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Subscription * Azure subscription 1

Resource group name * devops2-Atheer

Region * (US) Central US

Previous Next Review + create

Task02:

Step1:

Create network security group - Microsoft Azure — Mozilla Firefox

Create network security group

Basics Tags Review + create

Project details

Subscription * Azure subscription 1

Resource group * devops2-Atheer

Create new

Instance details

Name * devops2-AtheerNSG

Region * Central US

Review + create < Previous Next : Tags > Download a template for automation

Step2:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'Recordings - devops_2_202' and 'Copilot'. The main title is 'devops2-AtheerNSG - Microsoft Azure — Mozilla Firefox'. The URL is <https://portal.azure.com/#@9b321bdd-83fe-4696-b371-5381bd4f0454/resource/subscriptions/a7135c8f-934c-4000-b5b1-b09d6b645365/resourceGroups/devops2-AtheerNSG/providers/Microsoft.Network/networkSecurityGroups/devops2-AtheerNSG/inboundSecurityRules>. The left sidebar shows 'Network security group' under 'devops2-AtheerNSG'. The main content area is titled 'Inbound security rules' with a table showing 12 rules. The table columns are: Priority (100 to 65500), Name, Port, Protocol, Source, Destination, and Action. Most rules have an 'Allow' status, except for rule 65500 which has a 'Deny' status.

Priority	Name	Port	Protocol	Source	Destination	Action
100	Allow-HTTP-80	80	TCP	Any	Any	Allow
110	Allow-HTTPS-443	443	TCP	Any	Any	Allow
120	Allow-HighPorts	65200-65535	TCP	Any	Any	Allow
130	Allow-VM-3000	3000	TCP	Any	Any	Allow
140	Allow-DB-1433	1433	TCP	Any	Any	Allow
150	Allow-SSH-22	22	TCP	Any	Any	Allow
65000	AllowVnetInBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowAzureLoadBalancerInBound	Any	Any	AzureLoadBalancer	Any	Allow
65500	DenyAllInBound	Any	Any	Any	Any	Deny

Step3:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes tabs for 'Recordings - devops_2_202' and 'Copilot'. The main title is 'devops2-AtheerNSG - Microsoft Azure — Mozilla Firefox'. The URL is <https://portal.azure.com/#@9b321bdd-83fe-4696-b371-5381bd4f0454/resource/subscriptions/a7135c8f-934c-4000-b5b1-b09d6b645365/resourceGroups/devops2-AtheerNSG/providers/Microsoft.Network/networkSecurityGroups/devops2-AtheerNSG/outboundSecurityRules>. The left sidebar shows 'Network security group' under 'devops2-AtheerNSG'. The main content area is titled 'Outbound security rules' with a table showing 8 rules. The table columns are: Priority (160 to 65500), Name, Port, Protocol, Source, Destination, and Action. Most rules have an 'Allow' status, except for rule 65500 which has a 'Deny' status.

Priority	Name	Port	Protocol	Source	Destination	Action
160	Allow-HTTP-Outbound	80	TCP	Any	Any	Allow
170	Allow-HTTPS-Outbound	443	TCP	Any	Any	Allow
180	Allow-HighPorts-Out	65200-65535	TCP	Any	Any	Allow
65000	AllowVnetOutBound	Any	Any	VirtualNetwork	VirtualNetwork	Allow
65001	AllowInternetOutBound	Any	Any	Any	Internet	Allow
65500	DenyAllOutBound	Any	Any	Any	Any	Deny

Task3:

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes links for 'Recordings - devops_2_202', 'Home - Microsoft Azure', 'Summary - Overview', 'Inbox - atheerfaisal.al...', 'Integrify - Calendar - ...', and 'Integrify - Finland/dev...'. The main content area is titled 'devops2-AtheerVNET | Subnets'. On the left, a sidebar lists various network-related services: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Address space, Connected devices, Subnets), Bastion, DDoS protection, Firewall, Microsoft Defender for Cloud, Network manager, and DNS servers. The 'Subnets' section is currently selected. The main table displays four subnets: default (IPv4: 10.0.0.0/24, IPv6: -, Available IPs: 251, Delegated to: -, Security group: -, Route table: -), BackendSubnet (IPv4: 10.0.1.0/24, IPv6: -, Available IPs: 251, Delegated to: devops2-A..., Security group: -, Route table: -), FrontendSubnet (IPv4: 10.0.2.0/24, IPv6: -, Available IPs: 251, Delegated to: devops2-A..., Security group: -, Route table: -), and AppGatewaySubnet (IPv4: 10.0.3.0/24, IPv6: -, Available IPs: 251, Delegated to: devops2-A..., Security group: -, Route table: -). A note at the top of the table says: 'Create subnets to segment the virtual network address space into smaller ranges for use by your applications. When you deploy resources into a subnet, Azure assigns the resource an IP address from the subnet.' The bottom right of the table has a 'Give feed' link.

Task4:

The screenshot shows the Microsoft Azure portal interface for creating a new SQL database. The top navigation bar includes links for 'Recordings - devops_2_202', 'Home - Microsoft Azure', 'Summary - Overview', 'Inbox - atheerfaisal.al...', 'Integrify - Calendar - ...', and 'Integrify - Finland/dev...'. The main content area is titled 'Create SQL Database'. The left sidebar shows the 'Create SQL Database' wizard steps: Terms, Basics, and Advanced. The 'Terms' step contains a legal agreement text. The 'Basics' step shows the configuration details: Subscription (Azure subscription 1), Resource group (devops2-Atheer), Region (Central US), Database name (devops2-AtheerDB), Server (new devops2-atheerserver), Authentication method (SQL authentication), Server admin login (azureuser), Compute + storage (General Purpose - Serverless: Standard-series (Gen5), 1 vCore, 32 GB storage, zone redundant disabled), and Backup storage redundancy (Geo-redundant backup storage). To the right of the configuration, there is a 'Cost summary' box with the following estimated costs:

General Purpose (GP_S_Gen5_1)	0.14
Cost per GB (in USD)	
Max storage selected (in GB)	x 41.6
ESTIMATED STORAGE COST / MONTH	5.74 USD
COMPUTE COST / VCORE SECOND ¹	0.000174 USD

A note below the cost summary states: '1. Serverless databases are billed in vCore seconds based on a combination of CPU and memory utilization. Learn more about serverless billing.' At the bottom of the page are buttons for 'Create', '< Previous', and 'Download a template for automation'.

Create SQL Database - Microsoft Azure

Recordings - devops_2_202: https://portal.azure.com/#create/Microsoft.SQLDatabase

AtheerAlqannas/devops_2_2025-02 (C... Home - Microsoft Azure Summary - Overview Inbox - a...

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

Home > SQL databases > Create SQL Database ...

Networking

Allow Azure services and resources to access this server	Yes
Add current client IP address	Yes 151.255.19.179
Private endpoint	None
Minimum TLS version	1.2
Connection Policy	Default

Security

Identity	Not enabled
Transparent data encryption (Server level)	Service-managed key selected
Database level customer-managed key	Not configured
Database level user assigned managed identity	Not configured
Advanced data security	Not now
Always Encrypted with secure enclaves	Not configured
Sql Ledger(Database)	Disabled
Digest Storage	Disabled

Create < Previous Download a template for automation

Task5:

Create Web App - Microsoft Azure — Mozilla Firefox

Recordings - devops_2_202: https://portal.azure.com/#create/Microsoft.WebSite

AtheerAlqannas/devops_2_2025-02 (C... Home - Microsoft Azure Summary - Overview >>

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

Home > App Services > Create Web App ...

Web App by Microsoft **Basic (B1) sku** Estimated price - 13.14 USD/Month

Basic authentication for this app is currently disabled and may impact deployments. Click to learn more.

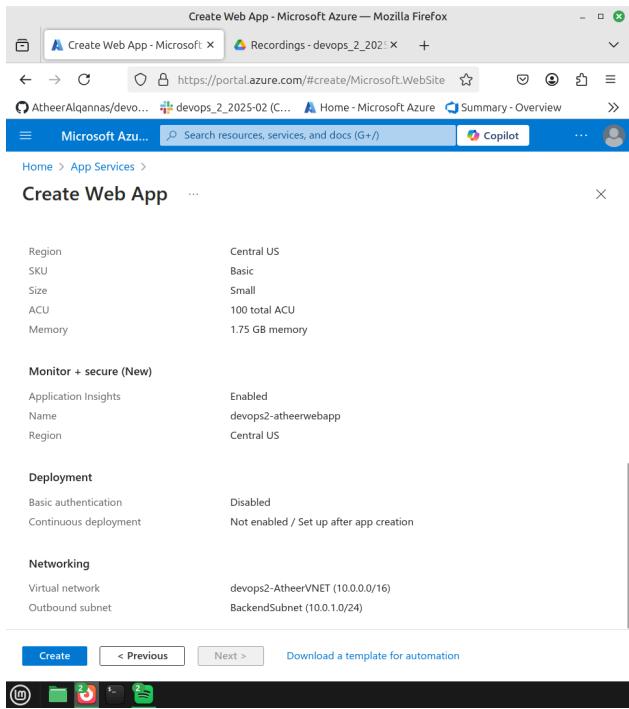
Details

Subscription	a7135c8f-934c-4000-b5b1-b09d6b645365
Resource Group	devops2-Atheer
Name	devops2-atheerwebapp
Secure unique default hostname	Enabled
Publish	Code
Runtime stack	Node 22 LTS

App Service Plan (New)

Name	devops2-atheerwebapp
Operating System	Linux

Create < Previous Next > Download a template for automation



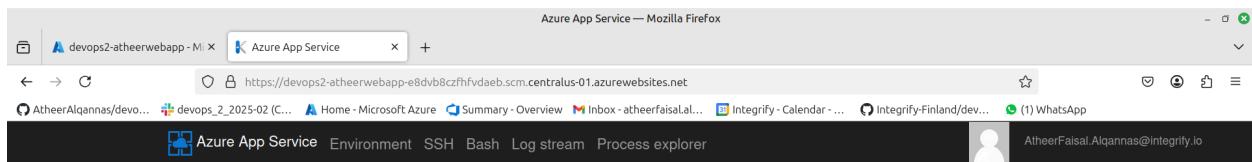
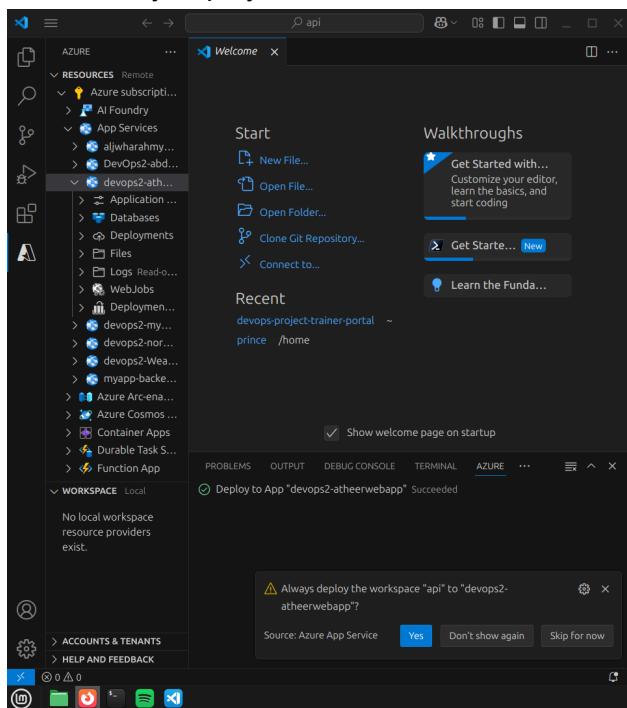
Task6:

```

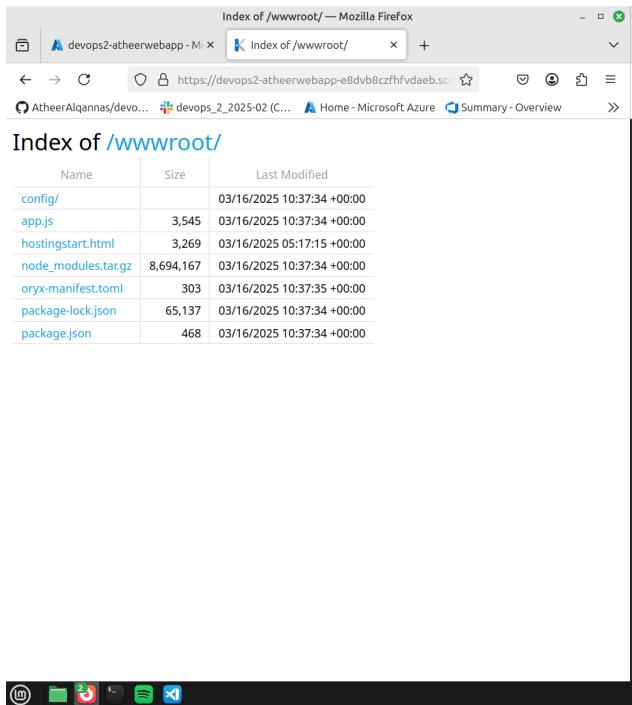
const express = require('express');
const cors = require("cors");
const { connectDB, sql } = require("./config/db");
const app = express();
app.use(cors());
app.use(express.json());
// Create users table if it doesn't exist
async function initializeDB() {
  try {
    const pool = await connectDB();
    await pool.request().query(`
      IF NOT EXISTS (SELECT * FROM sysobjects WHERE name = 'users')
      CREATE TABLE users (
        id INT IDENTITY(1,1) PRIMARY KEY,
        name VARCHAR(100) NOT NULL,
        email VARCHAR(100) NOT NULL UNIQUE,
        age INT,
        address VARCHAR(255)
      );
    `);
  } catch (err) {
    console.error(err.message);
  }
}
initializeDB();
  
```

prince@prince-HP-Spectre-x360-Convertible-13t-aw000:/devops-pr
 oject-trainer-portal\$ cd api
 prince@prince-HP-Spectre-x360-Convertible-13t-aw000:/devops-pr
 oject-trainer-portal\$ node app.js
 Server running on port 3000
 Connected to Azure SQL Database
 Database initialized
 Connected to Azure SQL Database
 Connected to Azure SQL Database

Successfully deployed



The screenshot shows the Kudu environment. It features a "Browse Directory" section with links to "Deployment Logs" and "Site wwwroot". Below this, a message says "More information about Kudu can be found on the [wiki](#)". At the bottom, there's a system tray with icons for battery, signal, and volume, and a status bar showing "EN", "15:16", and other system information.



Task7:

Create a virtual machine - Microsoft Azure — Mozilla Firefox

https://portal.azure.com/#create/Microsoft.VirtualMachine-ARM

Microsoft Azure

Home > Virtual machines >

Create a virtual machine

Validation passed

Help me create a low cost VM | Help me create a VM optimized for high availability | Help me choose the right VM size for my workload

Basics

Subscription	Azure subscription 1
Resource group	devops2-Atheer
Virtual machine name	devops2-AtheerVM
Region	Central US
Availability options	Availability zone
Zone options	Self-selected zone
Availability zone	1
Security type	Trusted launch virtual machines
Enable secure boot	Yes
Enable vTPM	Yes
Integrity monitoring	No
Image	Ubuntu Server 24.04 LTS - Gen2
VM architecture	x64

Estimated monthly costs

Costs indicated here are estimates only. Pricing may vary depending on your Microsoft agreement, date of purchase, subscription type, usage costs, licensing and currency exchange rates. Total costs may include other resource costs, licensing and subscription implications. This feature may have limited or restricted functionality, but is made available on a preview basis for evaluation and feedback.

Give feedback about your estimate experience
> Basics \$9.13
> Disks \$5.28
> Networking \$3.65
Estimated monthly cost \$18.05

< Previous Next > Create Download a template for automation Give feedback

Step 4,5,6:

```
princeprince-MP-Spectre-x3d-Convertible:13t-mw000:~$ ssh azureuser@130.131.164.155
azureuser@130.131.164.155's password:
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 Sun Mar 16 14:45:00 UTC 2025

System load: 0.0          Processes:      108
Usage of /: 5.4% of 28.02GB  Users logged in:     0
Memory usage:  194MiB   IPv4 address for eth0: 10.0.2.4
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.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See man sudo root for details.

azureuser@devops2-AtheerVM:~$ sudo apt update
...
Get:1 http://archive.archive.ubuntu.com/ubuntu noble InRelease
Get:2 http://archive.archive.ubuntu.com/ubuntu noble-updates InRelease [126 kB]
Get:3 http://archive.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:4 http://archive.archive.ubuntu.com/ubuntu noble-security InRelease [126 kB]
Get:5 http://archive.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [15.0 MB]
Get:6 http://archive.archive.ubuntu.com/ubuntu noble/universe amd64 Sources [15.0 MB]
Get:7 http://archive.archive.ubuntu.com/ubuntu noble/universe amd64 Components [3871 kB]
Get:8 http://archive.archive.ubuntu.com/ubuntu noble/universe amd64 c-n-f Metadata [361 kB]
Get:9 http://archive.archive.ubuntu.com/ubuntu noble/universe amd64 Packages [118 kB]
Get:10 http://archive.archive.ubuntu.com/ubuntu noble/multiverse Translation-en [118 kB]
Get:11 http://archive.archive.ubuntu.com/ubuntu noble/multiverse amd64 Components [118 kB]
Get:12 http://archive.archive.ubuntu.com/ubuntu noble/multiverse amd64 c-n-f Metadata [8320 B]
Get:13 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 Packages [199 kB]
Get:14 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 Sources [199 kB]
Get:15 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 Components [151 kB]
Get:16 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 c-n-f Metadata [134 kB]
Get:17 http://archive.archive.ubuntu.com/ubuntu noble-updates/universe Translation-en [201 kB]
Get:18 http://archive.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Components [364 kB]
Get:19 http://archive.archive.ubuntu.com/ubuntu noble-updates/universe amd64 Packages [159 kB]
Get:20 http://archive.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Packages [759 kB]
Get:21 http://archive.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [153 kB]
Get:22 http://archive.archive.ubuntu.com/ubuntu noble-updates/restricted Translation-en [153 kB]
Get:23 http://archive.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 Components [153 kB]
Get:24 http://archive.archive.ubuntu.com/ubuntu noble-updates/restricted amd64 c-n-f Metadata [464 B]
Get:25 http://archive.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Packages [38 kB]
Get:26 http://archive.archive.ubuntu.com/ubuntu noble-updates/multiverse Translation-en [38 kB]
Get:27 http://archive.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 Components [940 B]
Get:28 http://archive.archive.ubuntu.com/ubuntu noble-updates/multiverse amd64 c-n-f Metadata [656 B]

EN 🔍 1 18:29
```

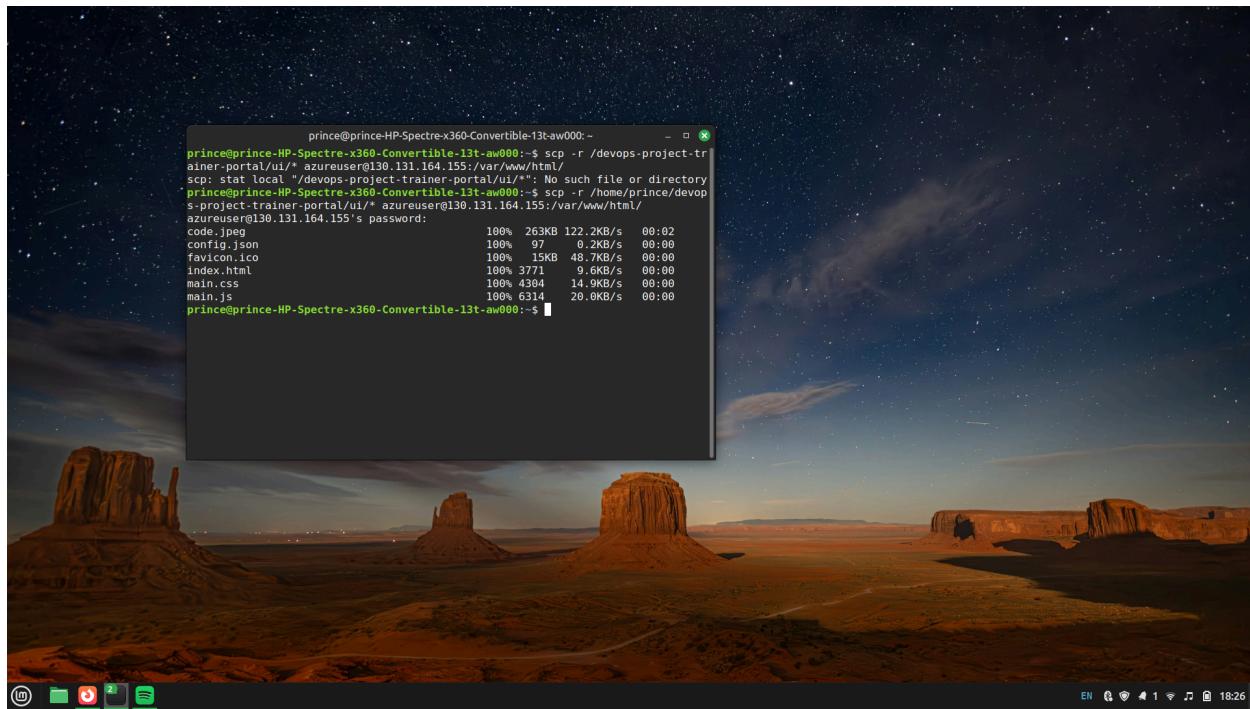
```
azureuser@devops2-AtheerVM:~$
Get:33 http://archive.archive.ubuntu.com/ubuntu noble-backports/universe amd64 Components [20.8 kB]
Get:34 http://archive.archive.ubuntu.com/ubuntu noble-backports/universe amd64 c-n-f Metadata [1256 B]
Get:35 http://archive.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 Components [16 B]
Get:36 http://archive.archive.ubuntu.com/ubuntu noble-backports/restricted amd64 c-n-f Metadata [16 B]
Get:37 http://archive.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 Components [212 B]
Get:38 http://archive.archive.ubuntu.com/ubuntu noble-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:39 http://archive.archive.ubuntu.com/ubuntu noble-security/main amd64 Packages [676 kB]
Get:40 http://archive.archive.ubuntu.com/ubuntu noble-security/main Translation-en [130 kB]
Get:41 http://archive.archive.ubuntu.com/ubuntu noble-security/main amd64 Sources [130 kB]
Get:42 http://archive.archive.ubuntu.com/ubuntu noble-security/main amd64 c-n-f Metadata [6912 B]
Get:43 http://archive.archive.ubuntu.com/ubuntu noble-security/universe amd64 Packages [819 kB]
Get:44 http://archive.archive.ubuntu.com/ubuntu noble-security/universe amd64 Sources [819 kB]
Get:45 http://archive.archive.ubuntu.com/ubuntu noble-security/universe amd64 Components [51.9 kB]
Get:46 http://archive.archive.ubuntu.com/ubuntu noble-security/universe amd64 c-n-f Metadata [16.9 kB]
Get:47 http://archive.archive.ubuntu.com/ubuntu noble-security/universe amd64 Translations [103 kB]
Get:48 http://archive.archive.ubuntu.com/ubuntu noble-security/restricted Translation-en [146 kB]
Get:49 http://archive.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Components [212 B]
Get:50 http://archive.archive.ubuntu.com/ubuntu noble-security/restricted amd64 Packages [152 B]
Get:51 http://archive.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Packages [26.2 kB]
Get:52 http://archive.archive.ubuntu.com/ubuntu noble-security/multiverse Translation-en [4092 B]
Get:53 http://archive.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 Sources [4092 B]
Get:54 http://archive.archive.ubuntu.com/ubuntu noble-security/multiverse amd64 c-n-f Metadata [448 B]
Fetched 32 kB in 8s (574 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
43 packages can be upgraded, 0 to remove and 43 not upgraded.
Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  nginx-common
Suggested packages:
  fcgiwrap nginx-doc ssl-cert
The following NEW packages will be installed:
  nginx nginx-common
0 upgraded, 1 newly installed, 0 to remove and 43 not upgraded.
Need to get 552 kB in 8s (14.0 kB/s).
After this operation, 1598 kB of additional disk space will be used.
get:1 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx-common all 1:24.0.2-ubuntu7.1 [31.2 kB]
get:2 http://archive.archive.ubuntu.com/ubuntu noble-updates/main amd64 nginx amd64 1:24.0.2-ubuntu7.1 [521 kB]
Fetched 552 kB in 8s (14.0 kB/s)
Preconfiguring packages...
Selecting previously unselected package nginx-common.
(Reading database ... 67334 files and directories currently installed.)
Preparing to unpack .../nginx-common_1:24.0.2-ubuntu7.1_amd64.deb ...
Unpacking nginx-common (1:24.0.2-ubuntu7.1) ...
Selecting previously unselected package nginx.
Preparing to unpack .../nginx_1:24.0.2-ubuntu7.1_amd64.deb ...
Unpacking nginx (1:24.0.2-ubuntu7.1) ...
Setting up nginx (1:24.0.2-ubuntu7.1) ...
Setting up nginx-common (1:24.0.2-ubuntu7.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /usr/lib/systemd/system/nginx.service.
Processing triggers for man-db (2.12.0-4build2) ...
Scanning processes...
Scanning for broken symlinks...
Running kernel seems to be up-to-date.
No service need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.

No VM guests are running on this host.

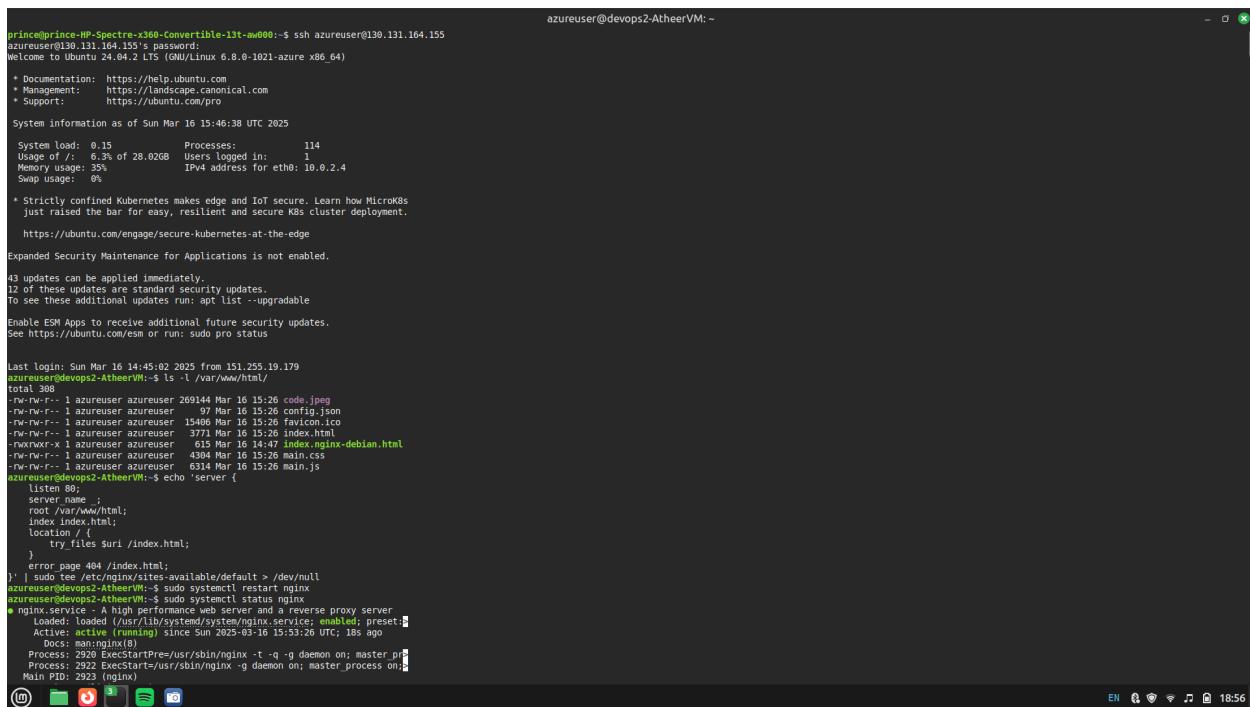
azuser@devops2-AtheerVM:~$ sudo chmod -R 775 /var/www/html
azuser@devops2-AtheerVM:~$
```

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Step8:



Step9,10:



Step11:

Basic 3 Tier App — Mozilla Firefox

Basic 3 Tier App | Not Secure | 130.131.164.155

AtheerAlqannas/devops_2_2025-02 (C..., Home - Microsoft Azure, Summary - Overview, Inbox - atheerfaisal.al..., Integrify - Calendar..., Integrify-Finland/dev..., (1) WhatsApp

+ Trainer

ID	Trainer's Name	Email	Age	Address	Actions
----	----------------	-------	-----	---------	---------

azuser@devops2-AtheerVM:~

```
azuser@devops2-AtheerVM:~$ curl localhost
```

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Basic 3 Tier App</title>
    <!-- Include Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <link rel="stylesheet" href="main.css">
</head>
```

```
<body>
    <div class="container mt-4">
        <div class="header-banner">
            <h1>Trainer's Portal</h1>
        </div>
        <!-- Success, Error, Information, or Warning Messages Section -->
        <div id="messages" class="mt-3"></div>
        <button id="addUserButton" class="btn btn-primary float-left mb-3"> + Trainer</button>
        <!-- Paginated Table -->
        <table class="table table-bordered table-striped">
            <thead>
                <tr>
                    <th>ID</th>
                    <th>Trainer's Name</th>
                    <th>Email</th>
                    <th>Age</th>
                    <th>Address</th>
                    <th>Actions</th>
                </tr>
            </thead>
            <tbody id="userTableBody"></tbody>
        </table>
        <!-- Modal for Adding User -->
        <div class="modal" id="addEditUserModal">
            <div class="modal-content">
                <div class="modal-header">
                    <h4 id="add-edit-modal-title">Add User</h4>
                    <button type="button" class="close" data-dismiss="modal">&amptimes</button>
                </div>
                <div class="modal-body">
                    <div id="modal-messages" class="mt-3"></div>
                    <form id="userForm" class="form">
                        <div class="form-group">
                            <label for="name">Name:</label>
                            <input type="text" class="form-control" id="name" name="name" required>
                        </div>
                        <div class="form-group">
                            <label for="email">Email:</label>
                            <input type="email" class="form-control" id="email" name="email" required>
                        </div>
                        <div class="form-group">
                            <label for="age">Age:</label>
                            <input type="number" class="form-control" id="age" name="age" required>
                        </div>
                        <div class="form-group">
                            <label for="address">Address:</label>
                            <input type="text" class="form-control" id="address" name="address" required>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</body>
```

EN 🔍 ⚡ 18:57

azuser@devops2-AtheerVM:~

```
azuser@devops2-AtheerVM:~$ curl localhost
```

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Basic 3 Tier App</title>
    <!-- Include Bootstrap CSS -->
    <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <link rel="stylesheet" href="main.css">
</head>
```

```
<body>
    <div class="container mt-4">
        <div class="header-banner">
            <h1>Trainer's Portal</h1>
        </div>
        <!-- Success, Error, Information, or Warning Messages Section -->
        <div id="messages" class="mt-3"></div>
        <button id="addUserButton" class="btn btn-primary float-left mb-3"> + Trainer</button>
        <!-- Paginated Table -->
        <table class="table table-bordered table-striped">
            <thead>
                <tr>
                    <th>ID</th>
                    <th>Trainer's Name</th>
                    <th>Email</th>
                    <th>Age</th>
                    <th>Address</th>
                    <th>Actions</th>
                </tr>
            </thead>
            <tbody id="userTableBody"></tbody>
        </table>
        <!-- Modal for Adding User -->
        <div class="modal" id="addEditUserModal">
            <div class="modal-content">
                <div class="modal-header">
                    <h4 id="add-edit-modal-title">Add User</h4>
                    <button type="button" class="close" data-dismiss="modal">&amptimes</button>
                </div>
                <div class="modal-body">
                    <div id="modal-messages" class="mt-3"></div>
                    <form id="userForm" class="form">
                        <div class="form-group">
                            <label for="name">Name:</label>
                            <input type="text" class="form-control" id="name" name="name" required>
                        </div>
                        <div class="form-group">
                            <label for="email">Email:</label>
                            <input type="email" class="form-control" id="email" name="email" required>
                        </div>
                        <div class="form-group">
                            <label for="age">Age:</label>
                            <input type="number" class="form-control" id="age" name="age" required>
                        </div>
                        <div class="form-group">
                            <label for="address">Address:</label>
                            <input type="text" class="form-control" id="address" name="address" required>
                        </div>
                    </form>
                </div>
            </div>
        </div>
    </div>
</body>
```

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Task8:

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Basics Frontends Backends Configuration Tags Review + create

Create routing rules that link your frontend(s) and backend(s). You can also add more backend pools, add a second frontend IP configuration if you haven't already, or edit previous configurations.

Frontends

Routing rules

Backend pools

Public: (new) devops2-AtheerGW-in rule-api backendpool-api backendpool-frontend

+ Add a frontend IP + Add a routing rule + Add a backend pool

Manage Backend settings

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Validation passed

Subscription	Azure subscription 1
Resource group	devops2-Atheer
Name	devops2-AtheerGW
Region	Central US
Tier	Standard_v2
Enable autoscaling	Enabled
Minimum instance count	2
Maximum instance count	10
Availability zone	Zones 1
HTTP2	Enabled
Virtual network	devops2-AtheerVNET
Subnet	AppGatewaySubnet (10.0.3.0/24)

Frontends

Public IPv4 address name	devops2-AtheerGW-ip
SKU	Standard
Assignment	Static
Availability zone	1

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