Set Up cPanel/WHM on Azure with using Proxmox

1. Set Up Proxmox on Azure with a Public IP

1.1 Create a VM on Azure

1. Go to Azure Portal.

2. Click **"Create a resource"** → Choose **"Virtual Machine"**.

3. Configure:

   - **Image**: **Ubuntu Server 22.04 LTS** (Proxmox runs on Debian-based systems).

   - **Size**: Minimum **4 vCPUs, 8GB RAM** (Recommended: 8 vCPUs, 16GB RAM).

   - **Authentication Type**: Choose **SSH Key** or **Password**.

   - **Allow Public Inbound Ports**: Select **SSH (22)**.

4. Click **"Review + Create"**, then **"Create"**.

1.2 Assign a Static Public IP

1. In the **Azure Portal**, go to **VM → Networking**.

2. Under **"Public IP"**, click **"Create new"** and choose **Static IP**.

3. Save the changes.

1.3 Connect to the VM via SSH

1. Copy the **public IP** from Azure.

2. Connect to the server via SSH:

   ssh root@your-public-ip

2. Install Proxmox VE

2.1 Update the System

    apt update && apt upgrade -y

2.2 Add Proxmox Repository

    echo "deb http://download.proxmox.com/debian/pve bookworm pve-no-subscription" | tee /etc/apt/sources.list.d/pve-install-repo.list

```
wget -qO - http://download.proxmox.com/debian/proxmox-release-bookworm.gpg |
tee /etc/apt/trusted.gpg.d/proxmox-release-bookworm.gpg
```

2.3 Install Proxmox

```
apt update && apt full-upgrade -y
```

```
apt install proxmox-ve postfix open-iscsi -y
```

2.4 Remove Conflicting Packages

```
apt remove os-prober -y
```

```
reboot
```

3. Configure Proxmox Networking

3.1 Remove Conflicting Packages

1. Edit network configuration:

   ```
   nano /etc/network/interfaces
   ```

2. Modify it as follows (replace **X.X.X.X** with your Azure Public IP):

   ```
   auto lo
   iface lo inet loopback


   auto eth0
   iface eth0 inet static
       address X.X.X.X
       netmask 255.255.255.0
       gateway Y.Y.Y.Y  # Use Azure's default gateway
       dns-nameservers 8.8.8.8   8.8.4.4
   ```

3. Save and restart networking:

   ```
   systemctl restart networking
   ```

3.2 Remove Conflicting Packages

1. Open Proxmox Web Interface:

   ```
   https://your-public-ip:8006
   ```

Username: root

Password: (Your Proxmox root password)

Installation may take 30-45 minutes.

4. Create an AlmaLinux VM in Proxmox

4.1 Download AlmaLinux ISO

1. In **Proxmox Web UI**, go to **"Datacenter" → "Local (Storage)"**.

2. Click **"ISO Images" → Upload**.

3. Download and upload the **AlmaLinux 8 ISO**:

   wget https://repo.almalinux.org/almalinux/8/isos/x86_64/AlmaLinux-8-latest-x86_64-dvd.iso

4.2 Create a New VM

1. Click **"Create VM"** in Proxmox.

2. Configure:

   - **General**: Name it (e.g., AlmaLinuxVM).

   - **OS**: Select **AlmaLinux ISO**.

   - **System**: Use default settings.

   - **Disks**: Allocate at least **40GB**.

   - **CPU**: Set at least **4 Cores**.

   - **Memory**: Allocate **8GB RAM**.

   - **Network**: Select **vmbr0 (default)**.

3. Click **Finish**, then **Start** the VM.

4.3 Install AlmaLinux

1. Open **Console** → Proceed with **AlmaLinux Installation**.

2. Set:

   - **Root Password**.

   - **Network Configuration** (Use Static IP if needed).

3. Complete installation and **reboot**.

5. Install cPanel/WHM on AlmaLinux

5.1 Connect to AlmaLinux via SSH

```
ssh root@alma-public-ip
```

5.2 Update the System

```
dnf update -y
```

5.3 Set Hostname

```
hostnamectl set-hostname server.example.com
```

5.4 Disable SELinux

```
setenforce 0

sed -i 's/^SELINUX=enforcing$/SELINUX=disabled/' /etc/selinux/config
```

5.5 Install Required Packages

```
dnf install perl wget -y
```

5.6 Download and Install cPanel/WHM

```
cd /home

curl -o latest -L https://securedownloads.cpanel.net/latest

sh latest
```

Installation may take 30-45 minutes.

6. Configure cPanel/WHM

6.1 Access WHM Panel

Open **WHM Web Interface**:
   https://alma-public-ip:2087

- **Username:** root

- **Password:** (Set during VM installation)

6.2 Initial WHM Setup

1. Accept **License Agreement**.

2. Enter **Admin Contact Email**.

3. Configure **Networking**:

   o Public IP: **Your AlmaLinux Public IP**.

   o NAT Mode: **Disabled**.

4. Set **Nameservers** (Cloudflare, Google DNS).

7. Open Firewall Ports

7.1 Open Ports in Proxmox Firewall

```
pve-firewall stop

pve-firewall start

pve-firewall enable
```

7.2 Open cPanel Ports in AlmaLinux

```
firewall-cmd --permanent --add-port=2087/tcp

firewall-cmd --permanent --add-port=2083/tcp

firewall-cmd --permanent --add-port=80/tcp

firewall-cmd --permanent --add-port=443/tcp

firewall-cmd --reload
```

7.3 Open Ports in Azure Firewall

In **Azure Portal → VM → Networking → Inbound Rules**, add:

- WHM (2087)

- cPanel (2083)

- HTTP (80)

- HTTPS (443)

Step 8: Create Websites & Manage cPanel

8.1 Create a New cPanel Account

1. In WHM, go to **"Account Functions" → "Create a New Account"**.

2. Enter:

- o **Domain Name** (e.g., example.com).

- o **Username & Password**.

- o **Package (Resource limits)**.

3. Click **Create**.

8.2 Enable SSL

1. Go to **WHM → Manage AutoSSL**.

2. Select **Let's Encrypt** and enable it.

3. Run the SSL check.