**Part 1: Create Ubuntu VM from Azure Portal**

**1. Go to Azure Portal**

**2. Search: "Virtual Machines" → Click + Create**

**3. Basic Settings:**

* **Subscription**: Select yours
* **Resource Group**: Create new or select
* **VM name**: e.g., ubuntu-gui-vm
* **Region**: Your preferred region
* **Image**: **Ubuntu 22.04 LTS**
* **Size**: Use at least **Standard B2s or higher** (needs >2 GB RAM)
* **Authentication type**: Use **Password** (for RDP login)
  + Username: azureuser
  + Password: \*\*\*\*\*\*\*\*

**4. Inbound Ports: ✅ Select**

* **SSH (22)**
* **RDP (3389)**

**5. Disks / Networking: Default is fine**

**6. Click Review + Create → Create**

**✅ Part 2: Set Up GUI + RDP on Ubuntu VM**

**🔹 Step 1: SSH into VM**

From terminal:

ssh azureuser@<public\_ip\_of\_vm>

You can find the **Public IP** under the VM → *Overview*

**🔹 Step 2: Install GUI (XFCE Recommended)**

sudo apt update

sudo apt install xfce4 xfce4-goodies -y

💡 XFCE is lightweight and works well over RDP.

**🔹 Step 3: Install XRDP (Remote Desktop Protocol)**

sudo apt install xrdp -y

sudo systemctl enable xrdp

sudo systemctl start xrdp

**🔹 Step 4: Set XFCE as Default Session**

echo xfce4-session > ~/.xsession

**🔹 Step 5: Set a Password (needed for RDP login)**

sudo passwd azureuser

**✅ Part 3: Configure Azure Networking for RDP**

**🔸 Go to Azure Portal → Your VM → Networking**

* Click on **Add Inbound Port Rule**
* **Destination port ranges**: 3389
* **Protocol**: TCP
* **Action**: Allow
* **Source**: Any (or "My IP" for security)
* **Name**: Allow-RDP
* Click **Add**

**✅ Part 4: Connect to Ubuntu GUI via RDP**

**🔹 On Windows:**

* Open **Remote Desktop Connection (mstsc)**
* Enter: your\_vm\_public\_ip
* Username: azureuser
* Password: the one you set earlier

**🔹 On macOS/Linux:**

Use **Remmina**, **KRDC**, or:

rdesktop <your\_vm\_ip>

**✅ Optional: Install Ubuntu Software Center**

sudo apt install gnome-software -y

**✅ Optional: Install Browsers/Apps**

sudo apt install firefox -y