# **Steps required to create an Azure account**

Creating an Azure account is a straightforward process. Follow these steps:

**1. Go to the Azure Website**

* Open your browser and visit [Azure Portal](https://azure.microsoft.com/).

**2. Click on "Start Free"**

* On the homepage, look for the **"Start Free"** button to create a free account.

**3. Sign in or Create a Microsoft Account**

* If you already have a **Microsoft account** (e.g., Outlook, Hotmail), sign in.
* Otherwise, click **"Create one!"** and follow the prompts to set up a new Microsoft account.

**4. Provide Personal & Contact Information**

* Enter your **name, country, and contact details**.

**5. Verify Your Identity**

* Microsoft requires **phone number verification**. Enter your phone number to receive a **verification code**.

**6. Enter Payment Information**

* **A valid credit or debit card** is required for identity verification.
* Microsoft **won't charge you** for free services, but it may place a temporary authorization hold.

**7. Agree to Terms and Conditions**

* Read and accept Microsoft’s **terms and conditions**.

**8. Set Up Your Azure Subscription**

* Choose the **free trial** or another subscription option based on your needs.
* The **free trial** provides **$200 in credit** for the first **30 days** and access to **popular services** for 12 months.

**9. Access the Azure Portal**

* Once set up, you'll be redirected to the **Azure Portal** (<https://portal.azure.com>).

# **Set up a basic Azure VM**

**1. Sign in to the Azure Portal**

* Go to [**Azure Portal**](https://portal.azure.com/) and log in with your Azure account.

**2. Navigate to the Virtual Machines Service**

* In the **search bar**, type **"Virtual Machines"** and select **Virtual Machines** from the results.
* Click **"Create"** → **"Azure Virtual Machine"**.

**3. Configure the Basics**

Under the **"Basics"** tab:

* **Subscription**: Select your **Azure subscription**.
* **Resource Group**: Create a new resource group or use an existing one.
* **Virtual Machine Name**: Enter a name for your VM (e.g., MyVM).
* **Region**: Choose a region close to your users for better performance.
* **Availability Options**: Select **No infrastructure redundancy required** (for a simple setup).
* **Security Type**: Keep the default (**Standard**).
* **Image**: Choose the OS (e.g., **Windows Server 2022** or **Ubuntu 20.04**).
* **Size**: Select an appropriate VM size (e.g., **B1s** for testing or **D2s\_v3** for better performance).
* **Authentication Type**:
  + Choose **Password** or **SSH key** (for Linux).
  + Set up a **Username** and **Password** (ensure it's strong).

**4. Configure Disks**

* **OS Disk Type**: Choose **Standard SSD** (cost-effective) or **Premium SSD** (better performance).
* Leave other disk settings as default unless you need additional data disks.

**5. Configure Networking**

* **Virtual Network (VNet)**: Azure automatically creates one, or you can select an existing one.
* **Subnet**: Choose the default subnet or create a new one.
* **Public IP**: Enable it if you need remote access.
* **Inbound Port Rules**:
  + **For Windows**: Allow **RDP (3389)**.
  + **For Linux**: Allow **SSH (22)**.

**6. Management & Monitoring (Optional)**

* **Boot Diagnostics**: Enable for troubleshooting.
* **Auto-shutdown**: Configure shutdown time to save costs.
* **Backup**: Optional, but recommended.

**7. Review & Create**

* Click **Review + Create** to validate settings.
* If everything looks good, click **Create**.

**8. Access the Virtual Machine**

* Once deployment is complete, go to **Virtual Machines**.
* Click on your VM and note the **Public IP Address**.
* **For Windows**: Use **Remote Desktop (RDP)**.
* **For Linux**: Use **SSH**:

# **Deploy a sample Python script.**

To deploy a **sample Python script** on an **Azure Virtual Machine (VM)**, follow these steps:

**1. Connect to the Azure VM**

Once your VM is running, connect to it:

* **For Windows VM:** Use **Remote Desktop (RDP)**.
* **For Linux VM:** Use SSH in your terminal

**2. Install Python**

**3. Create a Python Script**

* Navigate to your home directory
* Create a script file
* Add the following Python code

def add\_numbers(a, b):

return a + b

if \_\_name\_\_ == "\_\_main\_\_":

num1 = int(input("Enter first number: "))

num2 = int(input("Enter second number: "))

result = add\_numbers(num1, num2)

print(f"Sum: {result}")

**4. Run the Script**