EC2 (Elastic Compute Cloud) - Linux Instance Lab

Lab Setup

1. **Number of Instances:** 1
2. **Instance Details:**
    - **Name and Tags:** Set as MyLinux
    - **AMI (Amazon Machine Image):** Select Amazon Linux
    - **Instance Type:** Choose T2 Micro
    - **Key Pair:**
        - Name: Choose any name (e.g., test)
        - Format: Select .ppk (for use with PuTTY)
    - **Security Group:**
        - Ensure that the **SSH** port is selected (port 22)
    - **Storage:**
        - Ensure that **8GB** storage is selected
3. **Launch the Instance:** After setting up, click on Launch Instance.
4. **View Instances:** Verify that your Linux machine is running.

Connecting to the Instance

1. **Download PuTTY Tool:** Ensure PuTTY is installed on your system.
2. **Connect to the Instance:**
    - Select the Linux instance and click on Connect.
    - Copy the connection string (username@DNS-name).

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3. **Open PuTTY Tool:**
    - Paste the connection string in the Host Name field (username@DNS-name).
    - Navigate to SSH → Auth.
    - Under the Private key file for authentication, browse and select the test.ppk file.
    - Click Open.
    - Accept the security alert to connect to your instance.

Terminate the Instance

- Once you have finished your work, please terminate the instance to avoid unnecessary charges.

Real-Time Use Cases for Linux EC2 Instances

Linux instances on EC2 are versatile and widely used across various industries for multiple purposes, including:

- **DevOps Tools Installation and Operations:** Ideal for setting up and running DevOps tools.
- **Application Testing:** Used to test applications on different server configurations.
- **E-Commerce and Retail:** Employed by large e-commerce companies and marts to perform extensive calculations.

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- **Game Development and Hosting:** Utilized to develop and run games requiring high-configuration servers.
- **High-Definition Graphics and Visual Effects:** Essential for working on advanced graphics and visual effects in movie production.
- **And many more…:** Linux instances are used in countless other scenarios where powerful, scalable computing resources are needed.

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