Cloud Access[*]

Distributed Data Processing Environments

Lab Guide 2

This session aims at setting up Google Cloud account. It uses the Free Tier[1] and should not consume credits.

Steps First create the cloud account and redeem your voucher:

1. Log in you GMail account in the browser.

2. Click on the "Redeem Now" in the voucher email, or enter information here: `https://console.cloud.google.com/edu`

3. Go to Cloud Console: `https://console.cloud.google.com`

4. Create a project and select the education credits billing account.

5. Navigate to Compute Engine > VM Instances and select "Enable". Wait until complete.

Now configure an SSH key for remote access to VMs:

1. Generate an SSH key with `ssh-keygen`. Take note of the location of the files generated.

2. Display the generated *.pub* file with the `type` command. This is your public key.

3. Navigate to the Compute Engine > Metadata.

4. Select the SSH tab, edit, and then add your public key.

Finally, create a VM instance:

1. Navigate to Compute Engine > Instances and create a new instance selecting:

   - machine type: e2-micro;
   - operating system type Ubuntu;
   - version 24.04 LTS (x86_64).

2. Wait for instance to become ready.

3. Connect to the public IP address with SSH.

4. Repeat the steps of Lab 0 to install packages and run a simple program.

At the end of the session:

1. Navigate to the Compute Engine > Instances page on Cloud Console and delete the VM.

2. Make sure that all instances are gone.

Learning Outcomes Setup a cloud-hosted Linux environment.

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[*]No restrictions on the use of AI tools.

[1]`https://cloud.google.com/free/docs/free-cloud-features#free-tier`