PLG 2025 Lab 1+2 Prerequisites

Please ensure you have completed the pre-requisites to ensure you are ready to go the day of the workshop. This includes installing and verifying all required software dependencies for the lab

Software Prerequisites

1. Install Homebrew

Homebrew is a package manager for macOS, necessary for installing Docker or other dependencies. Follow these steps to verify and install Homebrew:

1. Verify if Homebrew is installed by running:
2. brew --version
3. Expected Output:

```
Unset
Homebrew X.X.X
```

4. If Homebrew is not installed, install it using the following command:
5. /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
6. Verify the installation:
7. brew --version
8. Expected Output:

```
Unset
Homebrew X.X.X
```

2. Install All Other Software via HomeBrew

Install and validate all required software for the demo with the following command

1. Run the command to install AWS CLI using Homebrew:

```
brew install awscli
brew tap hashicorp/tap
brew install hashicorp/tap/terraform
brew install confluentinc/tap/cli
brew install kubectl
```

2. brew install jq

3. Validate Software Installations

The Terraform Command Line Interface (CLI) is required to perform Terraform actions.

2. Verify the installation:

aws --version
terraform -version
confluent version
kubectl version --client

3. jq --version
4. Expected Output:

```
Unset
You should see verion info for each program
```

4. Windows Jump Server Software Installation

A Jump server on the internal network is required to connect to the Oracle DB that will be on a private internal network; the following software will allow you to connect to this jump server. Download this application called Windows App for your specific OS.

2. API Key Prerequisites

1. Configure AWS API KEY

In IAM create a User that has Admin Permissions

1. Create a new AWS IAM User
2. Grant the User Admin Permissions
3. Create API Key associated with the admin user (this should return a key & secret)
4. Copy the API key & secret into a usable place Note: Copy the region being used as well; Ex: us-east-1
5. Run aws configure and enter the appropriate API Key, Secret, & Region when prompted. Note: Region should be the same region User was created in

2. Configure Confluent Cloud API Key

In Confluent Cloud Create an API Key with Cloud resource management Level Permissions

1. Log into Confluent
2. Open the sidebar menu and select API keys
3. Click + Add API key
4. Associate API Key with My account
5. Select Cloud resource management
6. Create the API key and copy the Key & Secret into a usable place