One-time Setup

1. Configure organization and [Billing Account](Billing%20Account).

2. Create "Admin" folder under the organization

3. Create project <customer name>-landing-zone under the Admin folder.

4. In the project created in step #3:

    a. Create a bucket to store the terraform state

    b. Update "connections.tf" to use the bucket to store the state

    c. Associate with the billing account created in step #1.

    d. Activate Cloud Resource Manager API by running
       https://console.developers.google.com/apis/api/cloudresourcemanager.googleapis.com/overview?project=<Project ID>

        i. Example:
           https://console.developers.google.com/apis/api/cloudresourcemanager.googleapis.com/overview?project=62484788133

    e. Acitvate IAM API by running
       https://console.developers.google.com/apis/api/iam.googleapis.com/overview?project=<Project ID>

        i. Example:
           https://console.developers.google.com/apis/api/iam.googleapis.com/overview?project=159920235900

    f. Activate billing by running

        i. https://console.developers.google.com/apis/api/cloudbilling.googleapis.com/overview?project=<Project ID>

        ii. Example:
            https://console.developers.google.com/apis/api/cloudbilling.googleapis.com/overview?project=159920235900

5. Execute *gcloud auth application-default login* command in a terminal prior to running the modules. If you get auth. errors, implement steps #6 and 7 below.

6. Go to IAM--> select the project created in step #3--> service accounts

    a. Create a service account

    b. Create and download a service key

    c. Put the service account key in the "security folder"

    d. Update "connections.tf" to use the key

    e. Update `.bash_profile` file with the path to the service account file

7. Add the service account created in step #6 above to the organization

    a. Copy the full email address of the service account created in step #6

    b. In IAM→ Select the organization from the dropdown list

    c. In IAM→ Add the service account as a member using the email address copied.

    d. Grant the service account the following permissions:

        i.   Organization Administrator

        ii. Folder Admin

        iii. Storage Admin

        iv. Billing Account Administrator

        v.   Organization Policy Administrator

        vi. Project Creator