Tasks
1. Using Terraform, and on Oracle Cloud Infrastructure (OCI), build a hop and
   spoke network and all of its necessary components.
2. Provision an application VM with Nuxt.js as a frontend and Laravel as a
   backend.
3. Provision a database VM with MySQL, Redis and Mongo.
4. Setup an automated CI/CD deployment using Jenkins.
5. Use Ansible to install and configure all systems.

Infrastructure and Assumptions
1. A VM for the setup of terraform and ansible.
2. Using Ansible, I want to perform task 2, 3 and 4.
3. A second VM (db-vm) will be used to setup MySQL, Redis and Mongo Databases.
4. A third VM (app-vm) will be used to setup three applications.
    1. one frontend app using Nuxt.js
    2. one backend app using Laravel
    3. one microservice app deployed using automated CI/CD with Jenkins and
       Kubernetes (one node for Kubernetes)
5. Frontend and backend can be exposed using nginx or with ingress in
   Kubernetes (domains and SSL certs will be required). I have included an
   nginx in my ansible playbook.
6. For task-1, using a dynamic routing gateway (DRG) and remote peering
   connections (RPCs) is not included in the Free Tier and will incur costs so
   I will setup a basic network.
7. For task-4, I am assuming that a docker image for the microservice (java
   app) is already uploaded to a private docker registry.
8. In a staging and prod environment, I will use Vault for any secure configs.
9. Names of ansible tasks are explanatory and I have added comments for the
   terraform task.

Tools
1. Terraform
2. Ansible
3. Git
4. Kubernetes
5. Jenkins
6. Nginx
7. Oracle Cloud Network