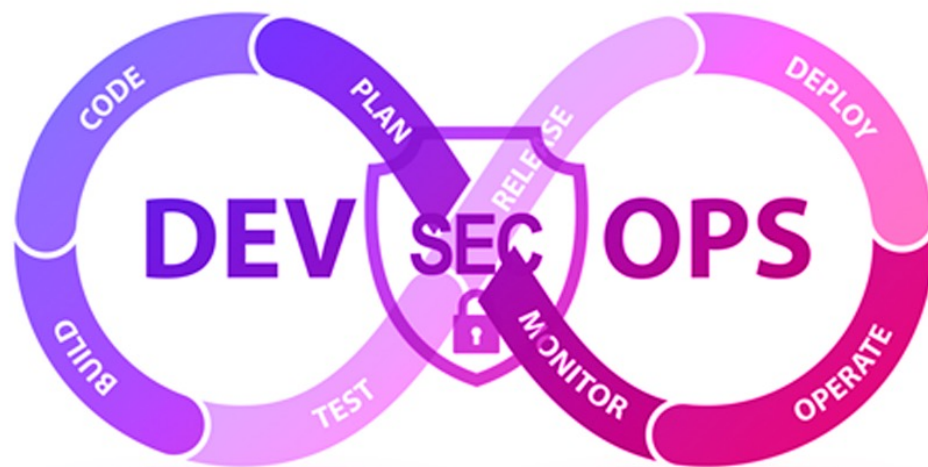


# DevSecOps – Lab Interview



# Intuitive



**Intuitive Technology Partners, Inc.**  
**AMERICAS | EUROPE | MIDDLE EAST | APAC**

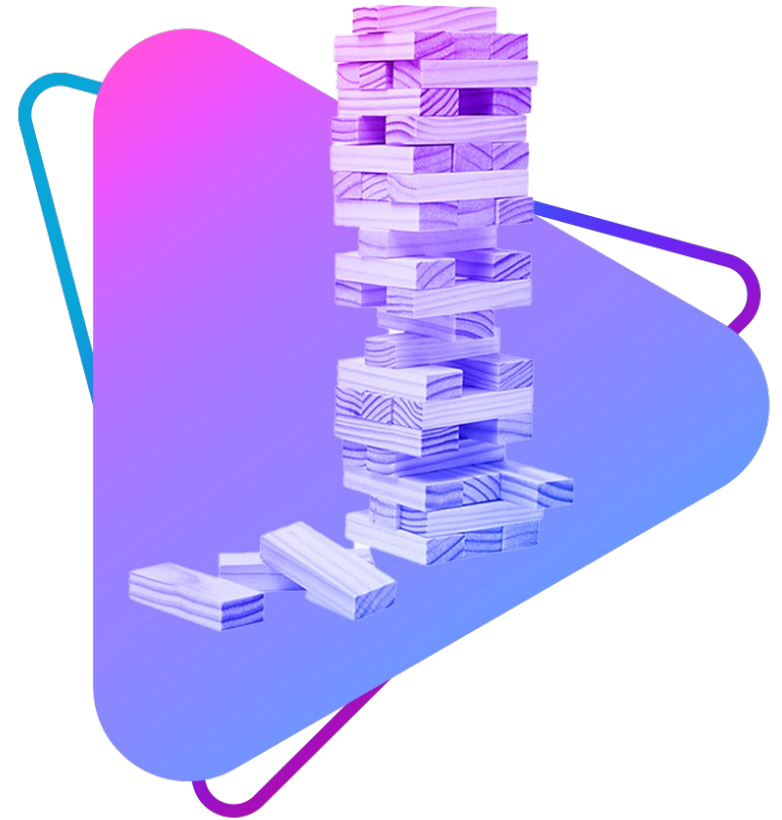
Iselin NJ | Dallas TX | Saratoga CA | Portland OR | Toronto Canada | Paris France | London UK | Dubai UAE | Bengaluru/Pune/Ahmedabad India  
sales@intuitive.cloud | www.intuitive.cloud

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# Terraform

## **Terraform:**

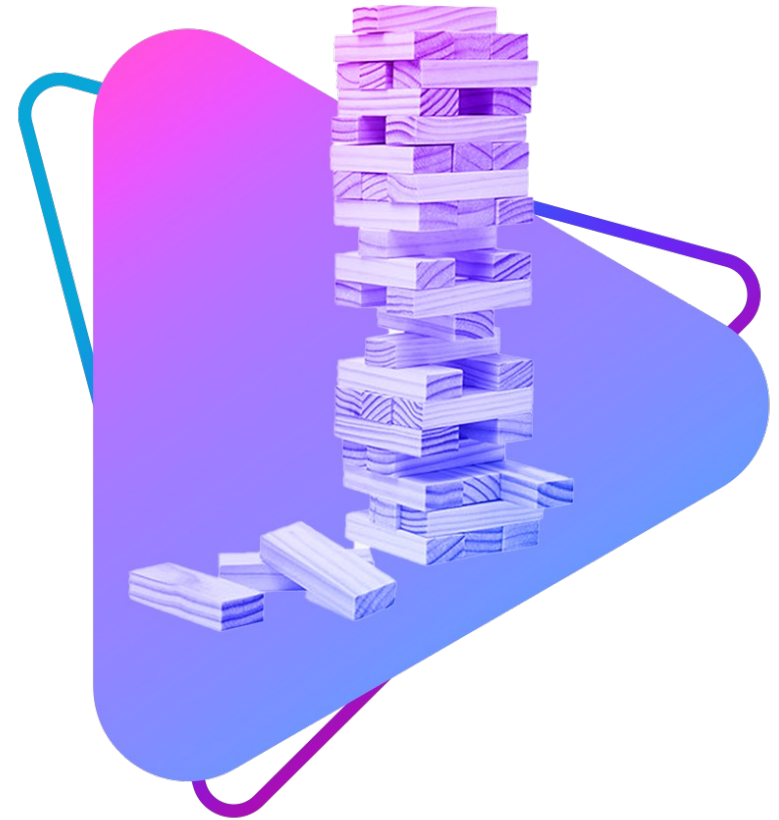
1. Review the AWS, Azure or GCP reference architecture (slides 5 & 6).
2. Develop the Terraform templates to create the reference architecture (AWS, Azure or GCP). Please be sure to make use of modules and all other best practices. For this exercise, assume the use of Terraform opensource.
3. Commit all changes/deliverables to the feature branch



# CDK

## CDK w/python:

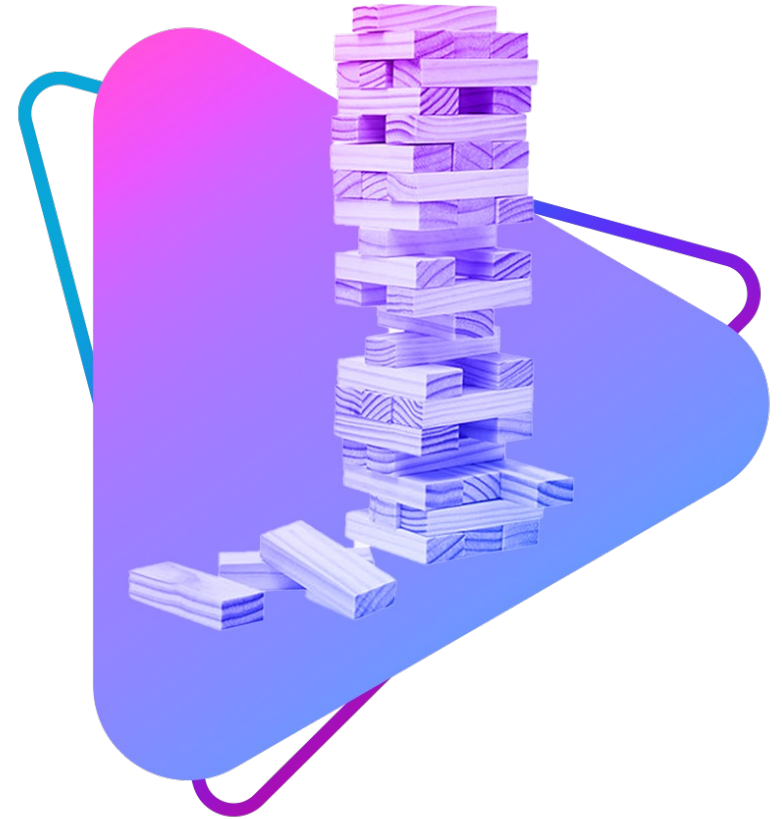
1. Review the AWS reference architecture
2. Using python, develop CDK to deploy the reference architecture
3. CDK should be developed to deploy 3 stacks
  1. Networking
  2. Compute & storage
  3. S3
4. Commit all changes/deliverables to the feature branch



# IaC Pipeline

## IaC Pipeline:

1. Create a yaml template (CICD) that can be used to validate, scan and deploy Terraform IaC .
2. Please create the yaml template for one of the following platforms:
  - GitHub Actions
  - Azure DevOps
  - GitLab
3. Commit all changes/deliverables to the feature branch



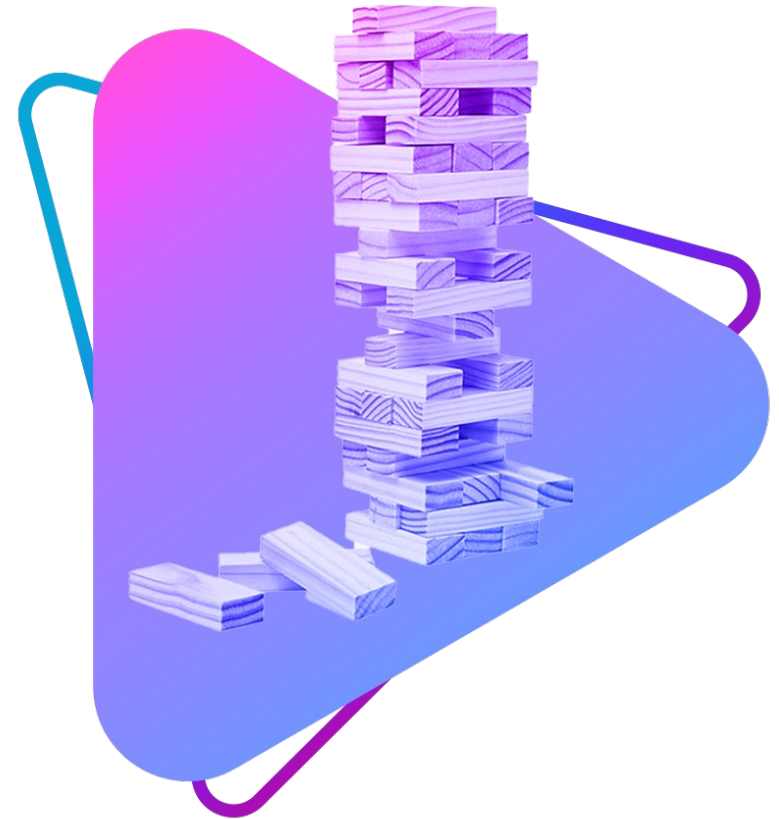
# Docker

## Update Dockerfile:

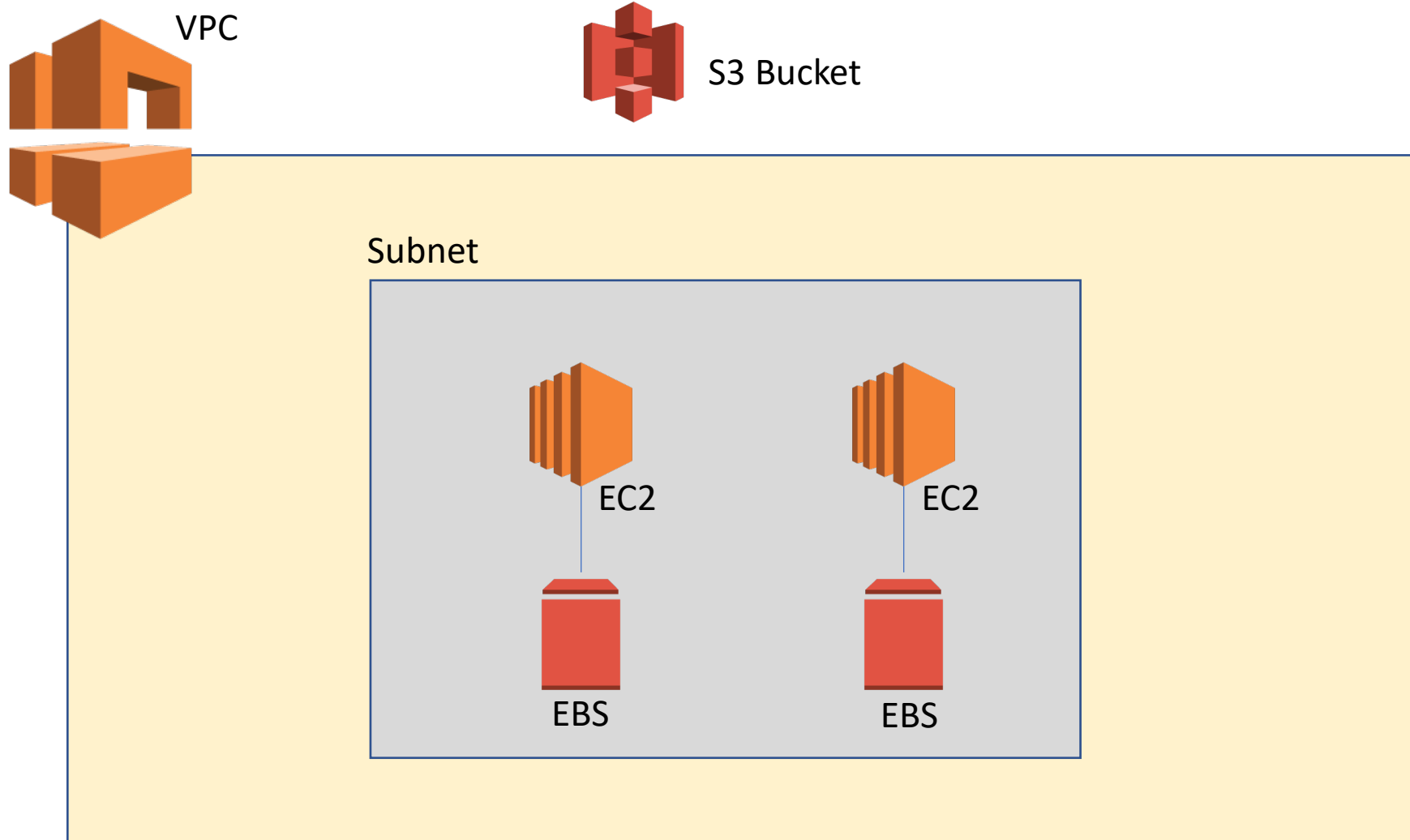
1. Using the base Dockerfile provided in the Docker directory.
2. Review the instructions provided in the Dockerfile and customize accordingly
3. Commit all changes/deliverables to the feature branch

## Build Docker Image:

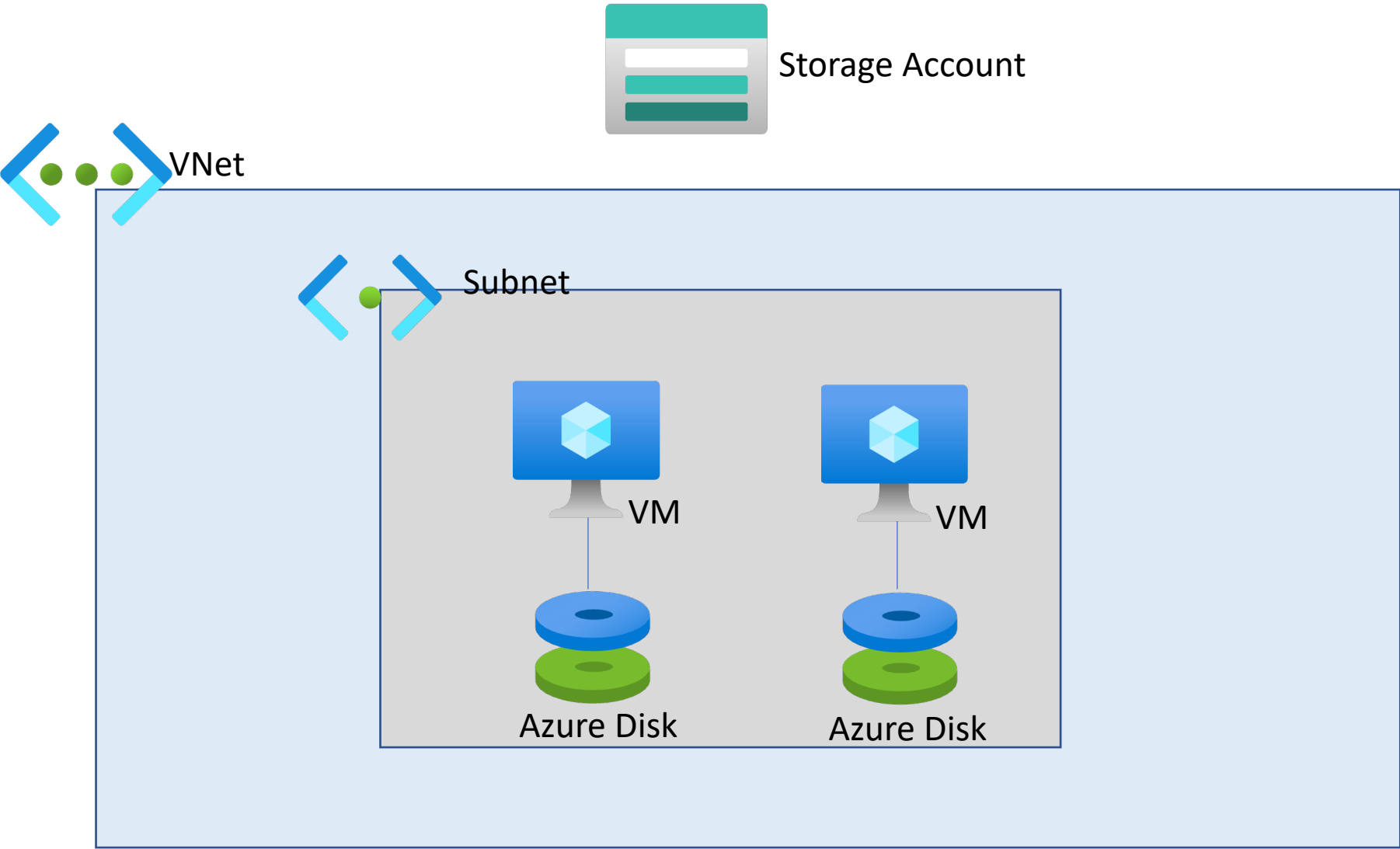
1. Build the docker image locally
2. List the docker images and take a screenshot.
3. Using the image, create and start a container
4. List running containers and take a screenshot
5. Update README with commands to create image and create/start container, as well as command that would be used to upload image to DockerHub registry.
6. Commit all changes/deliverables to the **feature** branch



# AWS Reference Architecture



# Azure Reference Architecture



# GCP Reference Architecture

