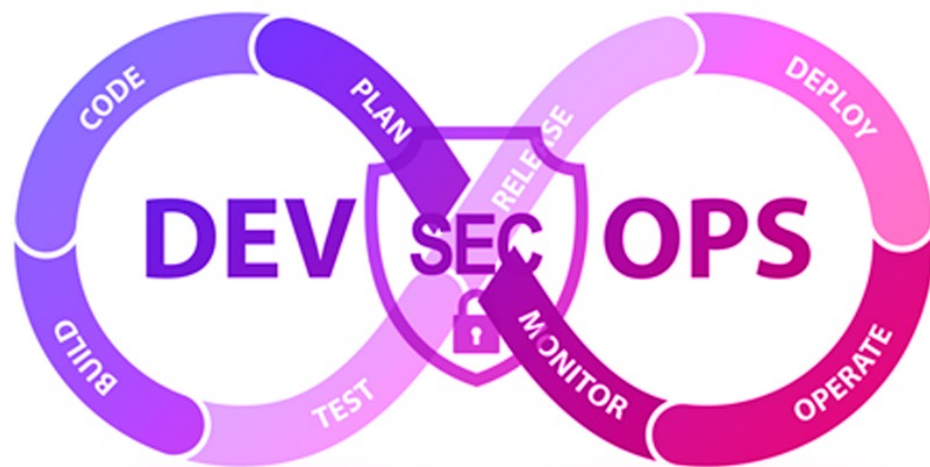


DevSecOps – Lab Interview



Intuitive



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

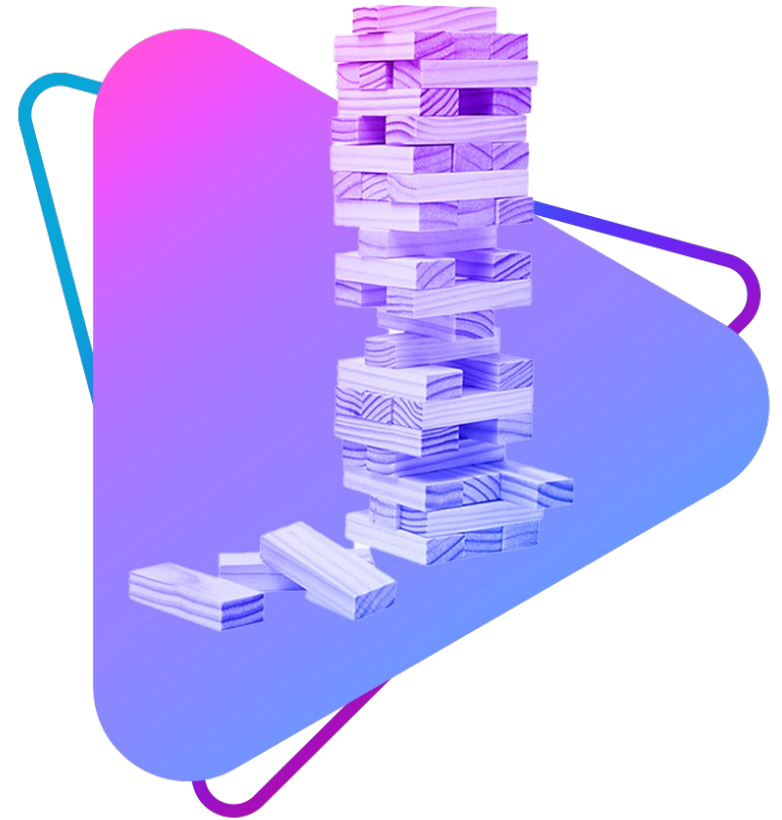
Iselin NJ | Dallas TX | Saratoga CA | Portland OR | Toronto Canada | Paris France | London UK | Dubai UAE | Bengaluru/Pune/Ahmedabad India
sales@intuitive.cloud | www.intuitive.cloud

Strictly Confidential - Do not copy or share without written consent from Intuitive

Terraform

Terraform:

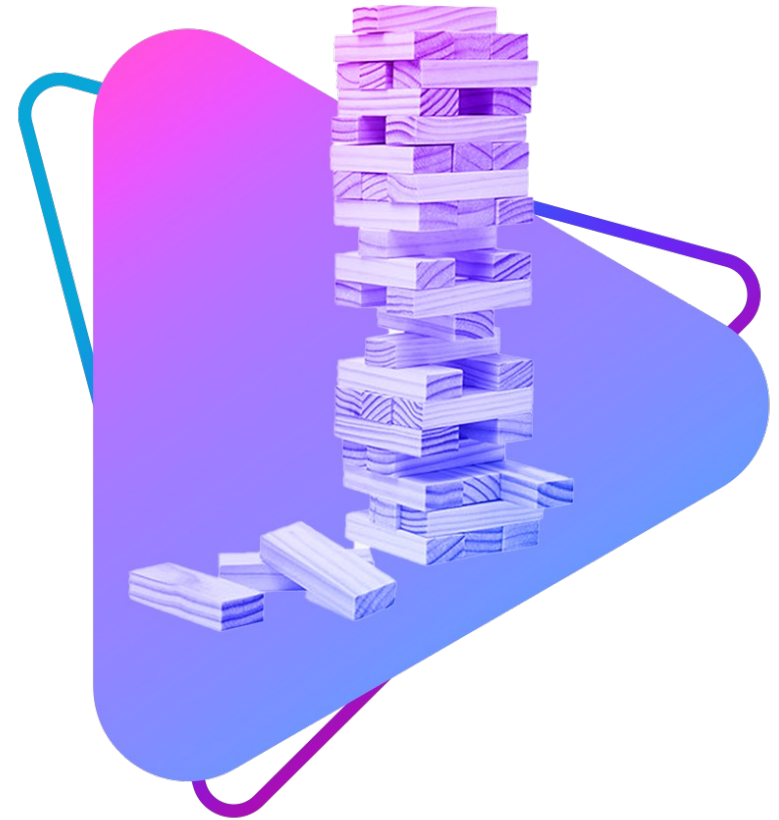
1. Review the AWS, Azure or GCP reference architecture (slides 5 & 6).
2. Develop the Terraform templates to create the reference architecture (AWS, Azure or GCP). Please be sure to make use of modules and all other best practices. For this exercise, assume the use of Terraform opensource.
3. Commit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



CDK

CDK w/python:

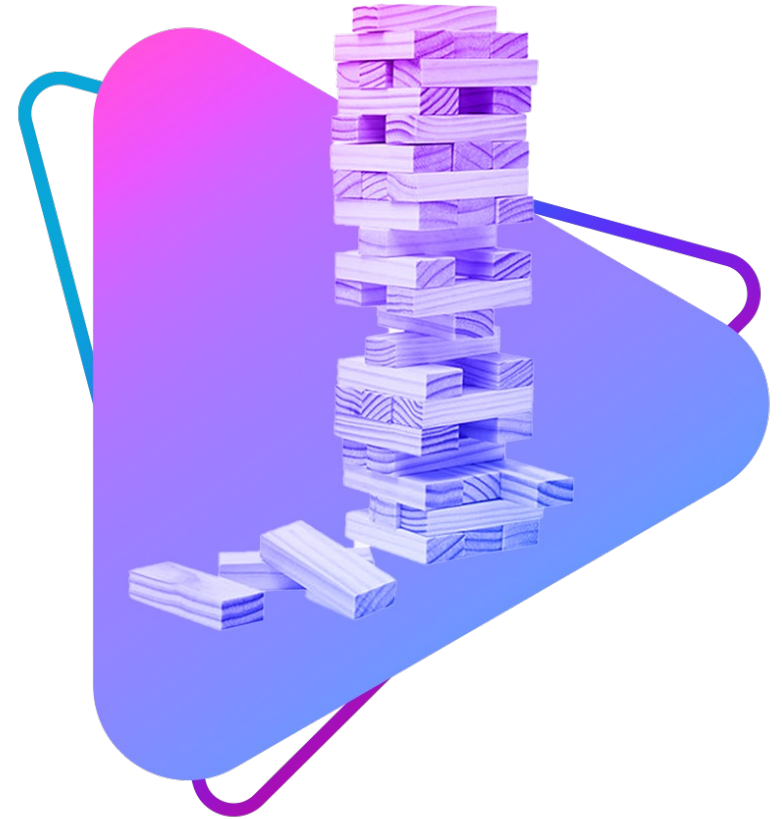
1. Review the AWS reference architecture
2. Using python, develop CDK to deploy the reference architecture
3. CDK should be developed to deploy 3 stacks
 1. Networking
 2. Compute & storage
 3. S3
4. Commit all changes/deliverables to the feature branch



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



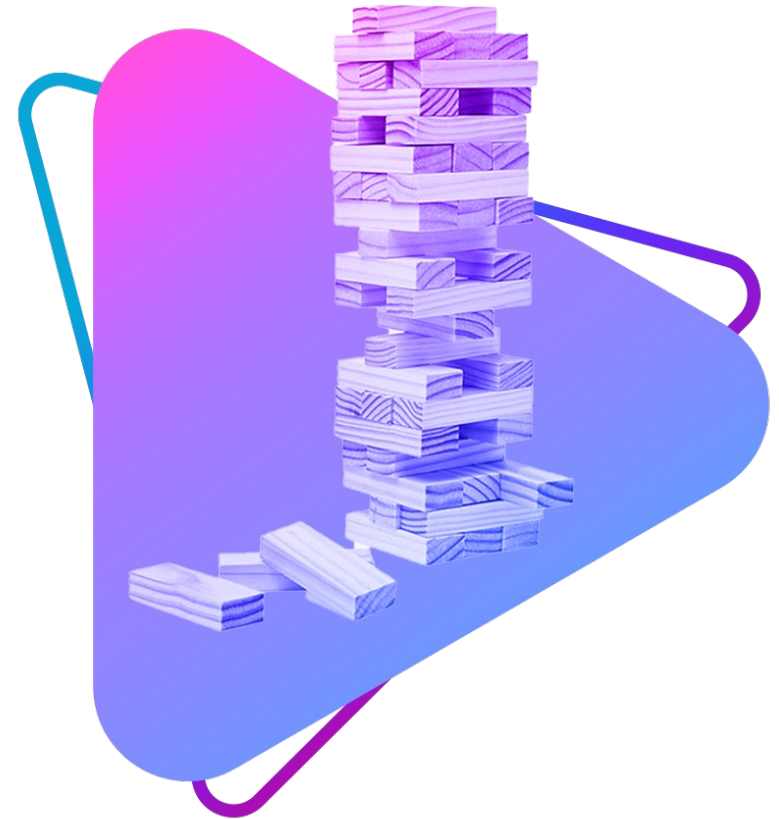
Docker

Update Dockerfile:

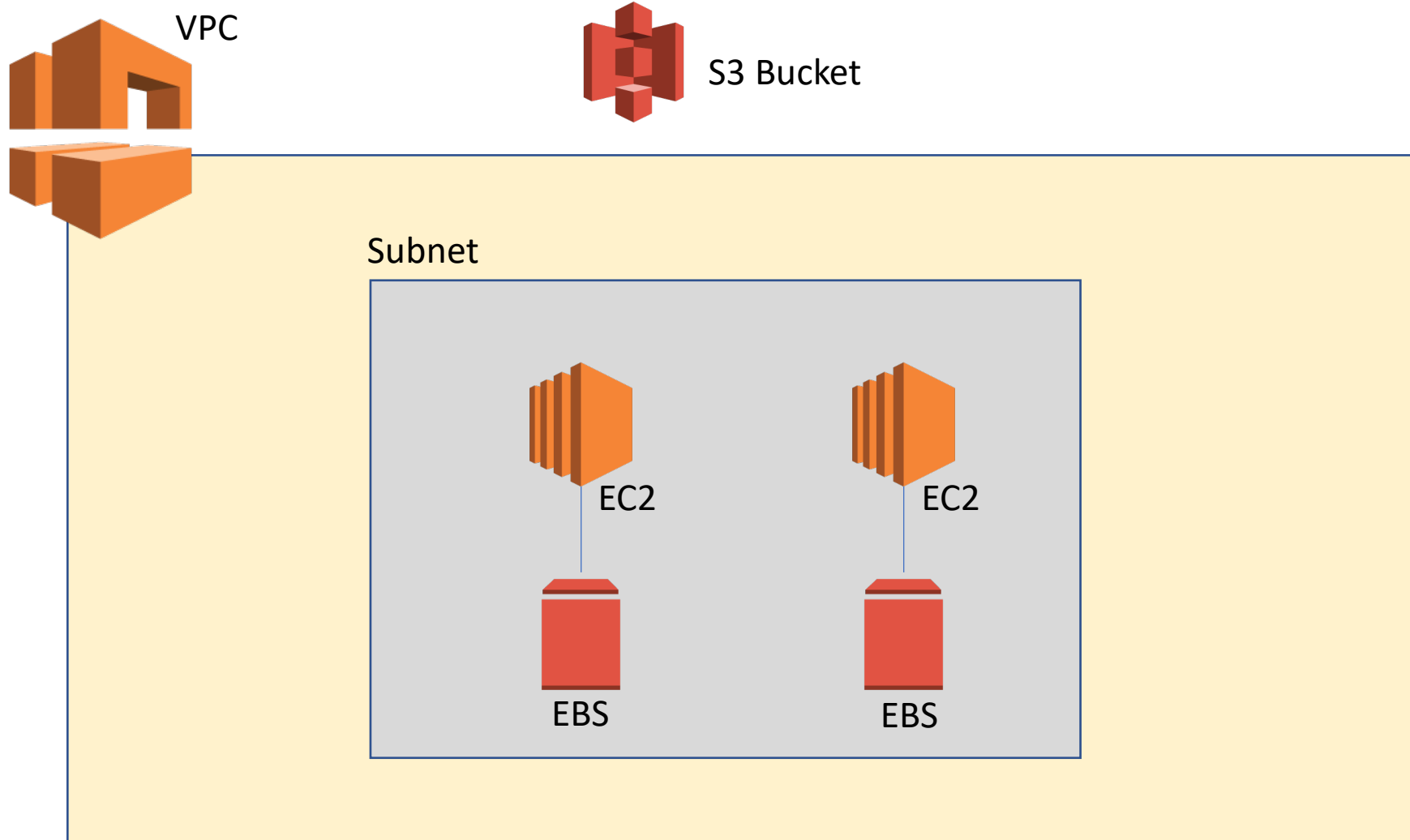
1. Using the base Dockerfile provided in the Docker directory.
2. Review the instructions provided in the Dockerfile and customize accordingly
3. Commit all changes/deliverables to the feature branch

Build Docker Image:

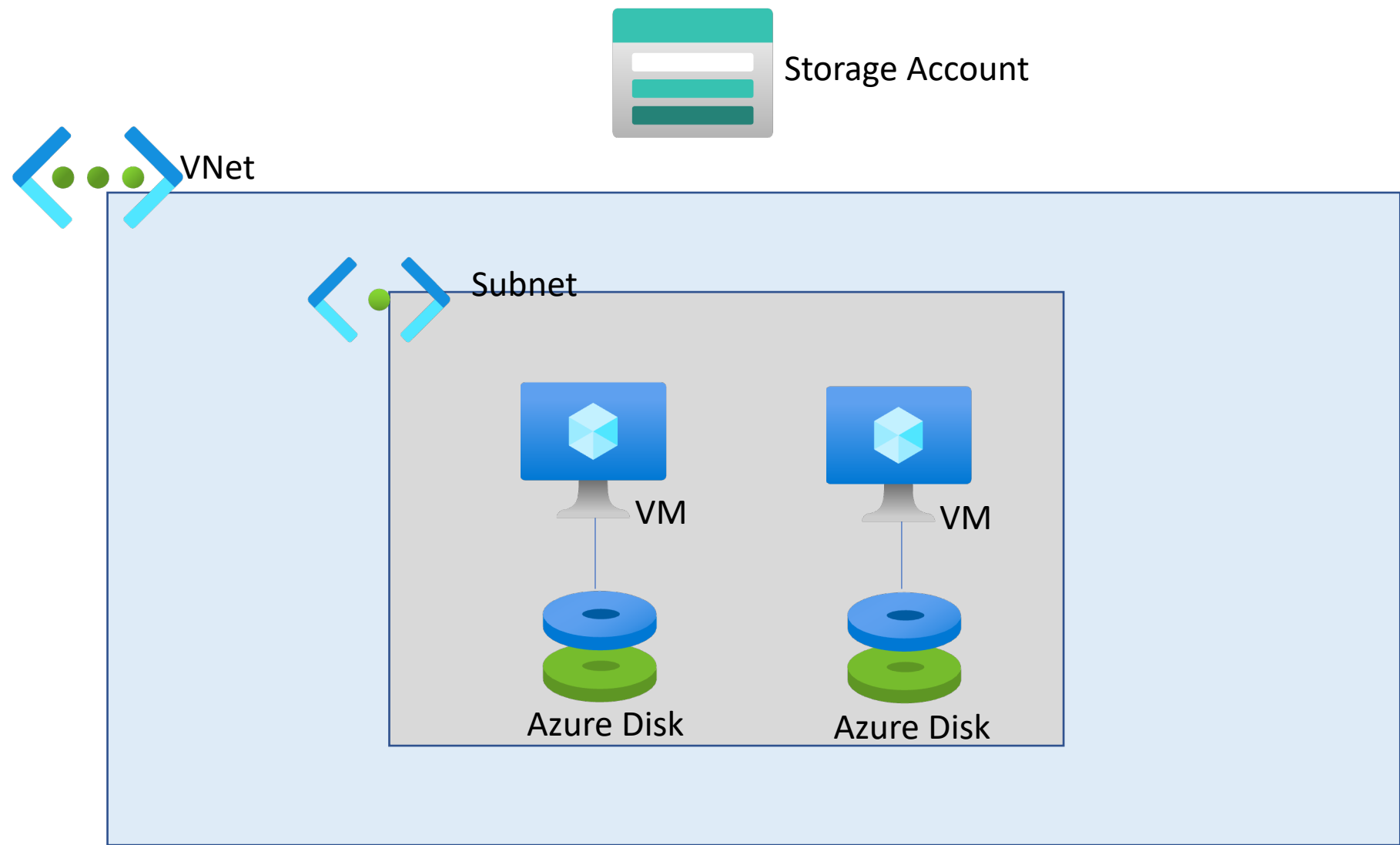
1. Build the docker image locally
2. List the docker images and take a screenshot.
3. Using the image, create and start a container
4. List running containers and take a screenshot
5. Update README with commands to create image and create/start container, as well as command that would be used to upload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



AWS Reference Architecture



Azure Reference Architecture



GCP Reference Architecture

