SIT ARCHITECTURE:

1. We have CI tool creating 2 artifacts – a zip file and a WAR file.
2. We can use Vagrant if we are going with VM based deployment, else docker swarm if we are going with docker based deployment.
3. I have written bare skeleton code for this.

PROD ARCHITECTURE:

1. If the SIT deployment is successful, then we can go with Prod.
2. Vagrant can be used in case of small deployments and containers can be orchestrated with docker swarm if we are going with container-based deployment.
3. I have written bare skeleton code for this.

PLAN TO MOVE TO PROD:

For this, we can have a script, where if we pass arguments about the environment to deploy, it can run the corresponding codes in respective VMs, where it will run the code and do deployment.

We can also use a proper CD tool, one of which I have suggested below if we are using containers.

ANOTHER PLAN SUGGESTED:

If we are using container-based deployment, we can use different approach described below.

1. Developers will develop code and push to stash.
2. Jenkins pipeline will get triggered and will create a container and push the image into repository specific for SIT environment.
3. Then CD tool will pick up the image and deploy in Docker swarm/Kubernetes cluster. (For this, we can use Spinnaker, Jenkins, Jenkins-X or GOCD, Harness).
4. We can have another stage in Pipeline, which pushes the image to Prod repository if the deployment is successful in Dev stage.
5. Then, another CD tool picks up the image and deploys in prod.
6. We can add Manual Judgements where ever needed.