**Web-deploy App Deployment steps :**

**For instance provision in aws we are using terraform so there are two files credentials.tf and ec2.tf**

* **Installed terraform in local work station**
* **Go to the folder where ec2.tf and cred.tf are located and run terraform init which will create the default conf of terraform**
* **Run terraform plan to see the changes there are going to be applied in aws**
* **Terraform apply built the instances in aws**
* **Once the instance are built , build a simple Jenkins job to download the code from GIT and once the build is successful in the post deployment steps we upload the artifacts into S3 in Zip format**
* **We will be using chef for deployment purposes , for the same we will be bootstrapping the 3 instances from chef server and in the run list we will be adding the given cookbook**
* **All the terraform files and chef recipe are uploaded into GIT**
* **In the recipe we are installing apache web server and enabling service**
* **Once the service is up and running we are downloading the files from S3 and Unzipping them**
* **Once files are Unzipped replace the default directory in http.conf file pointing towards web-deployment index.html file and restart the apache service**
* **Hitting the public ip of the instance redirects us to index.html page**

**Tools Used :**

**Terraform for provisioning**

**Jenkins for CICD**

**Chef for deployment**

**AWS Cloud**