**To get started, you can start the nodes by just doing:**

Go to the directory

**Cd /ncrvms/**

**vagrant up**

**NOTE:** If you prefer a different Vagrant box, you can set the DEMO\_BOX\_NAME environment variable before starting vagrant like this: agent1.vm.box = "ubuntu/trusty64"" vagrant up

Once it is finished, type the following:

**vagrant status**

**Accessing the Consul Web UI**

Once the cluster is up-and-running you will be able to access the Consul Web UI from a browser running on your host workstation by going to the following

URL: http://172.20.20.40:8500/ui/.

**Vagrant Consul cluster/Redis/docker**

This vagrant file creates three Consul server agent nodes and webuiportal server for test purpose.

All are running a standard Debian Ubuntu distribution.

**In this vagrant file I have created four virtual-machines namely:**

Agent1 (172.20.20.10 )

Agent 2 (172.20.20.20)

Agent 3 (172.20.20.30)

Webuiportal (172.20.20.40)

**Procedure:**

In Vagrantfile I have Invoked bootstrap.sh script and I passed the arguments In all three agent virtual- machines.

**--> Bootstrap.sh**

In this script I have Installed and configured the services like consul, redis and docker

**--> Webportal.sh**

In this I have installed the consul cluster and added to the agents to it

And in webportal I Written separate script for testing the consul

Webportal: cd ncrvms\webuiportal

**--> dockerfile**

I have created a script for running the docker container with tomcats appliation server and i deployed the sample.war application in apache tomcat

**cd /ncrvms/dockerfile**

**--> Config.json:**

For every agent there is a separate consul config.json file in that I have done clustering

Agent1:cd ncrvms\agent1\config.json

Agent2:cd ncrvms\agent2\config.json

Agent3:cd ncrvms\agent3\config.json