**VM1 – Jenkins Master**

1 clear

2 ls

3 clear

4 sudo apt update

5 clear

6 sudo nano terra\_install.sh

7 ls

8 bash terra\_install.sh

9 clear

10 sudo nano terra\_install.sh

11 bash terra\_install.sh

12 terraform --version

13 clear

14 cat terra\_install.sh

15 terraform --version

16 clear

17 sudo nano main.tf

18 terraform init

19 sudo nano main.tf

20 clear

21 cat main.tf

22 terraform init

23 clear

24 terraform plan

25 cat main.tf

26 terraform plan

27 clear

28 sudo nano main.tf

29 terraform plan

30 terraform apply

31 clear

32 sudo nano ansible\_install.sh

33 bash ansible\_install.sh

34 ls

35 cd /etc/ansible

36 ls

37 clear

38 cd /etc/ansible

39 ls

40 sudo nano hosts

41 cat hosts

42 clear

43 cd ..

44 ls

45 cd ..

46 ls

47 cd

48 ls

49 sudo nano Kmaster\_install.sh

50 sudo nano Kslave\_install.sh

51 sudo nano play.yaml

52 sudo cp Kmaster\_install.sh Jmaster\_install.sh

53 sudo cp Kslave\_install.sh Kmaster\_install.sh

54 ls

55 sudo rm Kslave\_install.sh

56 ls

57 cat Kmaster\_install.sh

58 cat Jmaster\_install.sh

59 clear

60 cat play.yaml

61 sudo nano play.yaml

62 sudo nano Kslave.sh

63 clear

64 ansible-playbook play.yaml --syntax-check

65 sudo nano play.yaml

66 ansible-playbook play.yaml --syntax-check

67 sudo nano play.yaml

68 ansible-playbook play.yaml --syntax-check

69 clear

70 ansible-playbook play.yaml

71 cd /etc/ansible

72 ls

73 sudo nano hosts

74 ls

75 cd/

76 cd \

77 ls

78 ansible-playbook play.yaml --syntax-check

79 clear

80 ansible-playbook play.yaml

81 ansible-playbook play.yaml ping --all

82 clear

83 ansible-playbook play.yaml

84 clear

85 exit

86 clear

87 ls

88 ssh\_keygen

89 ssh-keygen

90 ls

91 clear

92 cd ssh

93 cd ssh/

94 cd /ssh

95 clear

96 ls

97 cd ssh.

98 cd /ssh.

99 clear

100 cd \_ssh

101 cd ssh-keygen

102 cd ssh-keygen/

103 cd ssh\_keygen

104 cd ssh\_authorizedkeys

105 clear

106 cd .ssh

107 ls

108 cat id\_rsa.pub

109 cd ..

110 ls

111 ansible -m ping all

112 clear

113 ls

114 ansible-playbook play.yaml

115 ls

116 sudo nano play.yaml

117 clear

118 ansible-playbook play.yaml

119 ansible -m ping all

120 clear

121 sudo nano play.yaml

122 ls

123 cat Kslave.sh

124 cat Kmaster\_install.sh

125 clear

126 ansible-playbook play.yaml

127 clear

128 jenkins --version

129 java --version

130 exit

131 clear

132 docker --versio

133 clear

134 docker --version

135 jenkins --version

136 ls

137 cat Kmaster\_install.sh

138 cat Kslave.sh

139 clear

140 sudo /var/lib/jenkins/secrets/initialAdminPassword

141 sudo cat /var/lib/jenkins/secrets/initialAdminPassword

142 exit

143 clear

144 https://github.com/vidhyadevops/website3007.git

145 clear

146 git clone https://github.com/vidhyadevops/website3007.git

147 ls

148 cd website3007

149 ls

150 sudo nano Dockerfile

151 ls

152 sudo nano deploy.yaml

153 sudo nano svc.yaml

154 ls

155 git status

156 git add .

157 git commit -m "added required files for deployment and services"

158 git status

159 clear

160 ls

161 cat Dockerfile

162 cat deploy.yaml

163 clear

164 ls

165 cat svc.yaml

166 exit

167 clear

168 ls

169 cd website3007

170 ls

171 cat deploy.yaml

172 sudo nano deploy.yaml

173 cat deploy.yaml

174 cat svc.yaml

175 clear

176 ls

177 git status

178 git add .

179 git commit -m "deploy edited"

180 git status

181 git push origin master

182 exit

183 clear

184 history

**VM2 – Kubernetes Master**

1 clear

2 ls

3 cd authorized\_keys

4 cd .ssh

5 ls

6 sudo nano authorized\_keys

7 cd ..

8 ls

9 clear

10 docker --version

11 java --version

12 clear

13 eit

14 exit

15 clear

16 docker --version

17 sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installCRIDockerd.sh -P /tmp

18 sudo chmod 755 /tmp/installCRIDockerd.sh

19 sudo bash /tmp/installCRIDockerd.sh

20 sudo systemctl restart cri-docker.service

21 sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installK8S.sh -P /tmp

22 sudo chmod 755 /tmp/installK8S.sh

23 sudo bash /tmp/installK8S.sh

24 cri-dockerd --version

25 sudo kubeadm init --cri-socket unix:///var/run/cri-dockerd.sock --ignore-preflight-errors=all

26 kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/v3.24.1/manifests/calico.yaml

27 kubectl get nodes

28 clear

29 cri-dockerd --version

30 kubectl get nodes

31 kubeadm token create --print-join-command

32 kubectl get nodes

33 clear

34 kubectl get nodes

35 clear

36 kubectl get nodes

37 exit

38 clear

39 kubectl get nodes

40 kubectl get deployment

41 kubectl get services

42 exit

43 clear

**VM3 – Kubernetes Slave**

1 clear

2 ls

3 cd .ssh

4 ls

5 sudo nano authorized\_keys

6 ls

7 cd ..

8 ls

9 clear

10 docker --version

11 clear

12 exit

13 clear

14 docker --version

15 sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installCRIDockerd.sh -P /tmp

16 sudo chmod 755 /tmp/installCRIDockerd.sh

17 sudo bash /tmp/installCRIDockerd.sh

18 sudo systemctl restart cri-docker.service

19 sudo wget https://raw.githubusercontent.com/lerndevops/labs/master/scripts/installK8S.sh -P /tmp

20 sudo chmod 755 /tmp/installK8S.sh

21 sudo bash /tmp/installK8S.sh

22 cri-dockerd --version

23 clear

24 sudo kubeadm join 172.31.16.51:6443 --token zhxf2f.uens487u4fpdg83m --discovery-token-ca-cert-hash sha256:d77468f16a380ee838727b4007f0efc988583a7d9f92d6e1c4ef4cfcf1fc24ad --cri-socket unix:///var/run/cri-dockerd.sock

25 exit

26 clear

27 exit

28 clear