**Kubernetes Installation & Commands:**

//Tuenoff Swap Space

swapoff -a

nano /etc/fstab

//update Hostname

nano /etc/hostname

//Note the IP Address

ifconfig

ens33: 192.168.232.128

//Update Host file

nano /etc/hosts

add ip address & hostname

//set a static IP address

nano /etc/network/interfaces

//add the below at the end of the file

auto ens33

iface ens33 inet static

address 192.168.232.128

restart

//Install OpenSSH Server

sudo apt-get install openssh-server

//Install Docker

apt-get update

for calico network use 192.168.0.0/16 and for flannel network CNI: 10.244.0.0/16

https://projectcalico.org/v3.0/getting-started/kubernetes/installation/hosted/kubeadm/1.7/calico.yaml

https://docs.projectcalico.org/v3.0/getting-started/kubernetes/installation/hosted/kubeadm/1.7/calico.yaml

nano /etc/systemd/system/kubelet.service.d/10-kubeadm.conf

Environment="cgroup-driver=systemd/cgroup-driver=cgroupfs"

kubectl apply -f "https://cloud.weave.works/k8s/net?k8s-version=$(kubectl version | base64 | tr -d '\n')"

kubeadm init --pod-network-cidr=192.168.0.0/16 --apiserver-advertise-address=192.168.232.128 --ignore-preflight-errors=all

kubectl apply -f https://github.com/litmuschaos/litmus/blob/master/litmus-portal/graphql-server/manifests/cluster/2b\_litmus\_rbac.yaml

kubectl apply -f https://github.com/litmuschaos/litmus/blob/master/litmus-portal/graphql-server/manifests/cluster/3a\_agents\_rbac.yaml

kubectl apply -f https://raw.githubusercontent.com/litmuschaos/litmus/2.9.0/mkdocs/docs/2.9.0/litmus-2.9.0.yaml

**Litmus chaos Installation Using Kubernetes:**

kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.13.6.yaml

kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.11.0.yaml

kubectl apply -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

kubectl apply -f https://raw.githubusercontent.com/litmuschaos/litmus/2.9.0/mkdocs/docs/2.9.0/litmus-2.9.0.yaml

kubectl apply -f https://raw.githubusercontent.com/litmuschaos/litmus/2.10.0/mkdocs/docs/2.10.0/litmus-2.10.0.yaml

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1 helm version

2 git version

3 helm repo add litmuschaos https://litmuschaos.github.io/litmus-helm/

4 helm repo list

5 kubectl create ns litmus

6 kubectl apply -f https://raw.githubusercontent.com/coreos/flannel/master/Documentation/kube-flannel.yml

7 ufw active

8 systemctl status firewalld

9 kubectl get nodes

10 gcloud container clusters get-credentials kubernetes --zone us-central1-c --project aerial-episode-354104

11 kubectl get nodes

12 kubectl create ns litmus

13 helm install chaos litmuschaos/litmus --namespace=litmus

14 kubectl apply -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

15 kubectl get pods -n litmus

16 kubectl get pods -n litmus

17 kubectl get svc -n litmus

18 kubectl get pods -n litmus

19 kubeadm config view

20 kubectl config view

21 kubectl version

22 kubectl delete -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

23 kubectl get pods -n litmus

24 kubectl get svc -n litmus

25 kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.11.0.yaml

26 kubectl get pods -n litmus

27 kubectl get svc -n litmus

28 kubectl api-resources

29 kubectl delete -f https://litmuschaos.github.io/litmus/litmus-operator-v1.11.0.yaml

30 wget https://litmuschaos.github.io/litmus/litmus-operator-v1.11.0.yaml

31 vi litmus-operator-v1.11.0.yaml

32 kubectl apply -f litmus-operator-v1.11.0.yaml

33 vi litmus-operator-v1.11.0.yaml

34 kubectl delete -f litmus-operator-v1.11.0.yaml

35 helm repolist

36 helm repo list

37 helm repo add litmuschaos https://litmuschaos.github.io/litmus-helm/

38 kubectl create ns litmus

39 helm install chaos litmuschaos/litmus --namespace=litmus

40 kubectl apply -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

41 kubectl create --save-config

42 kubectl get pods -n litmus

43 kubectl get pods -n litmus

44 kubectl delete -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

45 kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.9.0.yaml

46 kubectl get pods -n litmus

47 kubectl get pods --all-namespaces

48 kubectl describe ns litmus

49 kubectl describe pod chaos-operator-ce-6c47c7787d-fv42g

50 kubectl get svc

51 kubectl get svc -n litmus

52 kubectl delete -f https://litmuschaos.github.io/litmus/litmus-operator-v1.9.0.yaml

53 docker version

54 docker --version

55 kind --version

56 mini-kube version

57 curl localhost:8001

58 kubectl apply -f https://github.com/litmuschaos/litmus/blob/master/litmus-portal/graphql-server/manifests/cluster/2b\_litmus\_rbac.yaml

59 kubectl apply -f https://github.com/litmuschaos/litmus/blob/master/litmus-portal/graphql-server/manifests/cluster/3a\_agents\_rbac.yaml

60 kubectl apply -f https://raw.githubusercontent.com/litmuschaos/litmus/2.9.0/mkdocs/docs/2.9.0/litmus-2.9.0.yaml

61 kubectl get pods -n litmus

62 kubectl get svc -n litmus

63 kubectl get cs

64 kubectl logs -f mongo-0

65 kubectl delete -f https://raw.githubusercontent.com/litmuschaos/litmus/2.9.0/mkdocs/docs/2.9.0/litmus-2.9.0.yaml

66 kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.13.6.yaml

67 kubectl apply -f https://litmuschaos.github.io/litmus/litmus-operator-v1.11.0.yaml

68 kubectl get pods -n litmus

69 kubectl get pods -n litmus

70 kubectl get svc -n litmus

71 kubectl get pods --all-namespaces

72 kubectl get namespaces

73 kubectl get svc -n litmus

74 kubectl get pods -n litmus

75 kubectl apply -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

76 kubectl get pods -n litmus

77 kubectl get pods -n litmus

78 kubectl get pods -n litmus

79 kubectl get pods -n litmus

80 kubectl get pods -n litmus

81 kubectl get pods -n litmus

82 kubectl get pods -n litmus

83 kubectl get pods -n litmus

84 kubectl get pods -n litmus

85 kubectl get svc -n litmus

86 curl -I https://localhost:30385

87 curl -I http://localhost:30385

88 kubectl get pods -n litmus

89 history

90 kubectl apply -f https://raw.githubusercontent.com/litmuschaos/litmus/2.9.0/mkdocs/docs/2.9.0/litmus-2.9.0.yaml

91 kubectl get pods -n litmus

92 kubectl delete litmusportal-server-86db7c4fd6-5ptrj

93 kubectl delete pod litmusportal-server-86db7c4fd6-5ptrj

94 kubectl get pods -n litmus

95 kubectl delete -f litmusportal-server-86db7c4fd6-5ptrj

96 kubectl get pods -n litmus

97 kubectl get pods -n litmus

98 kubectl get pods -n litmus

99 kubectl get nodes -o wide

100 netstat -ntulp | grep 30385

101 netstat -ntulp

102 curl -I 10.128.0.8:30385

103 curl -I 10.128.0.8:8080

104 node --version

105 npm --version

106 golang --version

107 go version

108 node --version

109 npm --version

110 go version

111 git --version

112 helm --version

113 helm version

114 kind version

115 kubectl get nodes -o wide

116 curl -I 34.132.44.115:8080

117 curl -I http://localhost:8080/

118 curl -I https://34.122.193.145:8080/

119 kubectl get crds | grep chaos

120 kubectl get nodes -o wide

121 kubectl get pods -n litmus

122 kubectl get nodes -o wide

123 kubectl get pods -n litmus

124 kubectl get pods -n litmus

125 kubectl get pods -n litmus

126 kubectl get pods -n litmus

127 https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

128 kubectl apply -f https://litmuschaos.github.io/litmus/2.0.0/litmus-2.0.0.yaml

129 kubectl get pods -n litmus

130 kubectl get svc -n litmus

131 history

132 kubectl get svc -n litmus

133 curl -I http://10.36.0.235:30169

134 ip r

135 netstat -tulpn |grep -i listen

136 kubectl get svc -n litmus

137 ping 10.36.0.235

138 telnet

139 telnet 10.36.0.235 30169

140 kubectl get nodes -o -wide

141 kubectl get nodes -o wide

142 telnet 34.132.44.115 30169

143 telnet 34.122.193.145 30169

144 telnet 10.128.0.8 30169

145 telnet 10.128.0.7 30169

146 telnet 10.128.0.7 8080

147 telnet 10.128.0.7 3000

148 telnet 34.122.193.145 8080

149 kubectl get nodes -o wide

150 kubectl get namespaces

151 #kubectl patch svc litmusportal-frontend-service -p '{"spec": {"type": "LoadBalancer"}}' -n litmus

152 kubectl get pods

153 kubectl get nodes -o wide

154 kubectl get svc -n litmus

155 kubectl patch svc litmusportal-frontend-service -p '{"spec": {"type": "LoadBalancer"}}' -n litmus

156 kubectl get svc -n litmus

157 kubectl get svc -n litmus

158 kubectl get svc -n litmus

159 kubectl get svc -n litmus

160 kubectl get svc -n litmus

161 telnet 35.239.238.251 30169

162 apt update

163 telnet 35.239.238.251 30169

164 apt install net-tools

165 kubectl get svc -n litmus

166 ping

167 apt install net\*

168 ping

169 curl -I https://whatismyipaddress.com/

170 curl -v https://whatismyipaddress.com

171 kubectl get svc -n litmus

172 curl -v 35.239.238.251 30169

173 curl -v http://35.239.238.251:30169

174 curl -v http://10.36.0.255:30169

175 curl -v http://10.36.0.235:30169

176 ufwstatus

177 ufw status

178 kubectl pods --all-namespaces

179 kubectl get pods --all-namespaces

180 kubectl describe pod mongo-0

181 kubectl describe pod litmusportal-server-59dd75f59c-pktgc

182 kubectl describe pod pdcsi-node-df5vx

183 kubectl logs pod mongo-0

184 kubectl logs pods mongo-0

185 kubectl logs pod mongo-0

186 kubectl get pods -n litmus

187 kubectl log mongo-0

188 kubectl logs mongo-0

189 kubectl get pods --all-namespaces

190 kubectl logs metrics-server-v0.5.2-747b856d77-crv5p

191 kubectl log pod metrics-server-v0.5.2-747b856d77-crv5p

192 kubectl describe pod metrics-server-v0.5.2-747b856d77-crv5p

193 kubectl get logs metrics-server-v0.5.2-747b856d77-crv5p

194 kubectl get log metrics-server-v0.5.2-747b856d77-crv5p

195 kubectl get log pod metrics-server-v0.5.2-747b856d77-crv5p

196 kubectl logs ns litmus

197 kubectl logs --namespace litmus

198 kubectl get pods

199 kubectl get nodes -o wide

200 kubectl get svc

201 kubectl get svc -n litmus

202 history