# 20 May 2023

## Master

sudo hostnamectl set-hostname master.example.com

47 exec bash

48 hostname

49 ls /etc/docker/

50 cat <<EOF | sudo tee /etc/docker/daemon.json

{

"exec-opts": ["native.cgroupdriver=systemd"],

"log-driver": "json-file",

"log-opts": {

"max-size": "100m"

},

"storage-driver": "overlay2"

}

EOF

51 sudo systemctl enable docker

52 sudo systemctl daemon-reload

53 sudo systemctl restart docker

54 sudo swapoff -a

57 sudo kubeadm init

58 cat $HOME

59 echo $HOME

60 mkdir -p $HOME/.kube

61 sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config

62 ls -lta ~/.kube/config

63 sudo chown $(id -u):$(id -g) $HOME/.kube/config

64 ls -lta ~/.kube/config

65 kubectl get nodes

66 kubectl apply -f https://raw.githubusercontent.com/projectcalico/calico/v3.25.0/manifests/calico.yaml

67 sudo kubeadm token create --print-join-command

68 kubectl get nodes

69 sudo kubeadm token create --print-join-command

### Other practice commands

55 free -g

56 free -m

58 cat $HOME

59 echo $HOME

sudo ls /etc/kubernetes/

50 cat /etc/kubernetes/admin.conf

51 sudo cat /etc/kubernetes/admin.conf

52 sudo ls /etc/kubernetes/

53 sudo service kubelet status

54 sudo ls /etc/kubernetes/

55 sudo ls /etc/kubernetes/manifests/

56 sudo cat /etc/kubernetes/admin.conf | grep 6443

57 sudo cat /etc/kubernetes/manifests/kube-apiserver.yaml

58 ip a

59 sudo cat /etc/kubernetes/admin.conf

60 scp labsuser@172.31.50.199://etc/kubernetes/admin.conf /etc/kubernetes/admin.conf

61 cat /etc/kubernetes/admin.conf

62 sudo cat /etc/kubernetes/admin.conf

## Worker Node

sudo service kubelet status

40 sudo service docker status

41 sudo hostnamectl set-hostname worker-node-1.example.com

42 exec bash

43 cat <<EOF | sudo tee /etc/docker/daemon.json

{

"exec-opts": ["native.cgroupdriver=systemd"],

"log-driver": "json-file",

"log-opts": {

"max-size": "100m"

},

"storage-driver": "overlay2"

}

EOF

44 sudo systemctl enable docker

45 sudo systemctl daemon-reload

46 sudo systemctl restart docker

47 sudo swapoff -a

48 free -g

49 free -m

50 kubeadm version

51 cat /proc/version

52 kubectl get nodes

53 ls ~/.ku

54 ls ~/.kube

55 mkdir -p $HOME/.kube

56 ls /etc/kubernetes/admin.conf

57 ip a

58 sudo kubeadm join 172.31.54.104:6443 --token 7tjnlk.qbjwbafxn1cf9e1h --discovery-token-ca-cert-hash sha256:a32784e97b643c83d2cbf76888854d3d04e99f86b5e6aad3622986fdf88cbdd9

# 21 May 2023

99 kubectl get nodes

100 kubectl get nodes -o wide

101 kubectl describe node worker-node-1.example.com

102 cat .kube/config

103 kubectl config view

104 kubectl config

105 kubectl config view

106 kubectl config current-context

107 kubectl config

108 kubectl config current-context

109 kubectl config use-context kubernetes-admin@kubernetes

110 kubectl get nodes

111 kubectl config

112 kubectl config current-context

113 kubectl config get-context kubernetes-admin@kubernetes

114 kubectl config get-contexts kubernetes-admin@kubernetes

115 cat .kube/config

116 kubectl cluster-info

117 kubectl cluster-info dump > /tmp/cluster-dump

118 vi /tmp/cluster-dump

119 kubectl get namespaces

120 kubectl get ns

121 kubectl get all -n kube-system

122 kubectl get pods -n kube-system

123 kubectl get pods -n kube-system -o wide

124 kubectl get pods -A

125 kubectl get nodes

126 kubectl delete node worker-node-1.example.com

127 kubectl get nodes

128 vi nodereg.jspon

129 vi nodereg.json

130 kubectl apply -f nodereg.json

131 kubectl get nodes

132 cat nodereg.json

133 cat no

134 cat nodereg.json

135 kubectl run nginxpod --image nginx --port 80

136 kubectl get pods

137 kubectl get pods -o wide

138 kubectl get pods -A

139 kubectl describe pod nginxpod

140 kubectl get pods

141 kubectl exec -it nginxpod /bin/sh

142 kubectl logs nginxpods

143 kubectl logs nginxpod

144 kubectl exec -it nginxpod date

145 kubectl exec -it nginxpod hostname

146 kubectl apply -f https://raw.githubusercontent.com/kubernetes/dashboard/v2.5.0/aio/deploy/recommended.yaml

147 kubectl get all -n kubernetes-dashboard

148 kubectl edit svc -n kubernetes-dashboard kubernetes-dashboard

149 kubectl get all -n kubernetes-dashboard

150 kubectl -n kube-system describe secret $(kubectl -n kube-system get secret | awk '/^deployment-controller-token-/{print $1}') | awk '$1=="token:"{print $2}'

151 kubectl get all -n kubernetes-dashboard

152 etcdctl

153 sudo snap install etcd

154 sudo apt install etcd-client

155 sudo ls /etc/kubernetes/

156 sudo ls /etc/kubernetes/pki

157 sudo ls /etc/kubernetes/pki/etcd

158 sudo chmod a+rw -R /etc/kubernetes/pki

159 kubectl get pods -n kube-system | grep etcd

160 kubectl describe pod etcd-master.example.com -n kube-system

161 kubectl describe pod etcd-master.example.com -n kube-system | grep 2379

162 sudo ETCDCTL\_API=3 etcdctl snapshot save etcd\_backup.db --endpoints https://172.31.54.104:2379 --cert=/etc/kubernetes/pki/etcd/server.crt --key=/etc/kubernetes/pki/etcd/server.key --cacert=/etc/kubernetes/pki/etcd/ca.crt

163 ls

164 sudo ETCDCTL\_API=3 etcdctl snapshot status etcd\_backup.db --endpoints https://172.31.54.104:2379 --cert=/etc/kubernetes/pki/etcd/server.crt --key=/etc/kubernetes/pki/etcd/server.key --cacert=/etc/kubernetes/pki/etcd/ca.crt

165 sudo ETCDCTL\_API=3 etcdctl snapshot status etcd\_backup.db --endpoints https://172.31.54.104:2379 --cert=/etc/kubernetes/pki/etcd/server.crt --key=/etc/kubernetes/pki/etcd/server.key --cacert=/etc/kubernetes/pki/etcd/ca.crt --write-out table

166 vi etcd\_backup.db

167 kubeadm version

168 kubectl version

169 kubelet --version

170 kubectl get nodeas

171 kubectl get nodes

172 kubectl get nodes -o wide

173 kubeadm version

174 kubectl get nodes -o wide

# 28th May 2023

### Master

198 kubectl run --help

199 alias k=kubectl

200 k get pods

201 kubectl api-resources

202 mkdir workloads

203 cd workloads/

204 vi pod.yamlk

205 vi pod.yaml

206 cat pod.yaml

207 k api-resources

208 cat pod.yaml

209 k explain pod

210 k explain pod.spec

211 k explain pod.spec.containers

212 k explain pod.spec.containers.image

213 cat pod.yaml

214 k explain pod.spec.containers --recursive

215 cat pod.yaml

216 k explain pod.apiVersion

217 k explain pod.spec.containers

218 k explain pod.spec.containers | grep -i resources

219 k explain pod.spec.containers | grep -i resource

220 k explain pod.apiVersion

221 vi multi-cont.yaml

222 cat pod.yaml

223 cat multi-cont.yaml

224 cat pod.yaml

225 kubectl apply -f pod.yaml

226 k get pods

227 k describe pod nginx

228 k get pods -o wide

229 k get pods nginx -o wide

230 cat multi-cont.yaml

231 k apply -f multi-cont.yaml

232 k get pods multicontainer-pods

233 k get pods mgimx

234 k get pods nginx

235 cat multi-cont.yaml

236 cp multi-cont.yaml xxxx

237 vi xxxx

238 cat xxxx

239 kubectl apply -f xxxx

240 cat pod.yaml

241 k get pods

242 vi init

243 cat init

244 k apply -f init

245 cat init

246 vi init

247 k apply -f init

248 k get pods purple

249 k get pods purple -w

250 cat init

251 k describe pod purple

252 cat init

253 vi res-limits

254 cat res-limits

255 k apply -f res-limits

256 k describe pod rl-pods

257 k describe pod rl-pod

258 k get pods

259 k describe pod nginx

260 cat res-limits

261 k get pods

262 k describe pod purple

263 cat init

264 history | grep init

265 k get pods -n kubes-system

266 k get pods -n kube-system

267 k get pods -n kube-system | grep master

268 k get nodes

269 k describe pod kube-apiserver-master.example.com -n kube-system

270 k get pods -n kube-system | grep master

271 sudo ls /etc/kubernetes/manifests/

272 sudo cp pod.yaml /etc/kubernetes/manifests/

273 sudo ls /etc/kubernetes/manifests/

274 k get pods

275 cat pod.yaml

276 k delete pod nginx-master.example.com

277 k get pods

278 k delete pod nginx-master.example.com

279 k get pods

280 sudo rm /etc/kubernetes/manifests/pod.yaml

281 k get pods

282 k get pods -n kube-system | grep master

283 ls

284 cat pod.yaml

# 3rd June 2023

## Master

285 history

286 vi deploy

287 k get pods

288 vi init

289 cat deploy

290 cat pod.yaml

291 cat deploy

292 k apply -f deploy

293 k get deploy

294 k get deployments

295 k api-resources

296 cat deploy

297 k explain deploy

298 k explain deploy.spec

299 k explain deploy.spec.template

300 k explain deploy.spec.template.spec

301 cat pod.yaml

302 cat deploy

303 k get deploy

304 k get pods

305 k get replicaset

306 history

307 cd workloads/

308 ls

309 cat deploy

310 cat pod.yaml

311 cat deploy

312 k get deploy

313 alias k=kubectl

314 k get deploy

315 k get pods | grep deplo

316 cat pod.yaml

317 cat deploy

318 k get pods | grep deplo

319 k rollout history deploy nginx-deployment

320 k rollout history deploy nginx-deployment --revision=1

321 kubectl set image deploy nginx-deployment nginx=nginx:1.16.1

322 cat deploy

323 k rollout history deploy nginx-deployment --revision=1

324 k rollout history deploy nginx-deployment

325 k rollout history deploy nginx-deployment --revision=2

326 k get pods | grep deplo

327 k rollout history deploy nginx-deployment

328 k get replicaset

329 k get deploy

330 k delete pod nginx-deployment-ff6655784-2pw6g

331 k get pods | grep deplo

332 k describe pod nginx-deployment-ff6655784-9q2ng

333 kubectl set image deployment/nginx-deployment nginx=nginx:xxxxxx

334 k get pods | grep deplo

335 k get rs

336 k rollout history deploy nginx-deployment

337 k rollout history deploy nginx-deployment --revision=3

338 docker pull nginx:xxxxxxx

339 k rollout history deploy nginx-deployment

340 k get rs

341 k rollout status deploy nginx-deployment

342 k rollout status deploy/nginx-deployment

343 k rollout history deploy nginx-deployment

344 k get rs

345 k rollout undo deploy nginx-deployment

346 k get rs

347 k rollout history deploy nginx-deployment

348 k rollout history deploy nginx-deployment --revision=4

349 k get rs

350 k get pods | grep deploy

351 k rollout history deploy nginx-deployment

352 k rollout undo deploy nginx-deploy --to-revision=1

353 k rollout undo deploy nginx-deployment --to-revision=1

354 k rollout history deploy nginx-deployment

355 k rollout history deploy nginx-deployment --revision=5

356 cat deploy

357 kubectl apply --help

358 kubectl scale --help

359 k scale deployment nginx-deployment --replicas=10

360 k get deploy

361 k get rs

362 k get pods | grep deplo

363 k scale deployment nginx-deployment --replicas=1

364 k get pods | grep deplo

365 k get rs

366 k get deploy

367 k get pods | grep deplo

368 cat deploy

369 wget https://k8s.io/examples/controllers/daemonset.yaml

370 cat daemonset.yaml

371 k get ds

372 k get ds -A

373 k get pods -A -o wide | grep calico

374 cat daemonset.yaml

375 k apply -f daemonset.yaml

376 k get ds -n kube-system

377 k get pods -n kubec-system | grep fluent

378 k get pods -n kube-system -o wide | grep fluent

379 cat daemonset.yaml

# 4th Jun 2023

## Master

464 env

465 echo $USER

466 echo $PWD

467 cat env

468 k apply -f env

469 k exec -it envar-demo /bin/sh

470 k explain configmap

471 cat cm

472 cat cm-pod

473 cat cm

474 k apply -f cm

475 k get cm

476 k describe cm game-demo

477 cat env

478 cat cm

479 cat cm-pod

480 k get pods | grep deplo

481 k rollout restart deploy nginx-deployment

482 k get pods | grep deplo

483 cat cm

484 k describe cm game-demo

485 cat cm-pod

486 k apply -f cm-pod

487 k get pods | grep dapi

488 k logs dapi-test-pod02

489 cat cm

490 cat sec

491 cat secret

492 k apply -f secret

493 k get secret

494 k describe secret mysecret

495 cat secret-pod

496 k get secret

497 cat secret-pod

498 k apply -f secret-pod

499 k get pods | grep dapi-test-pod03

500 k delete -f secret-pod

501 rm secret-pod

502 vi secret-pod

503 k apply -f secret-pod

504 k get pods | grep dapi-test-pod03

505 k logs dapi-test-pod03

506 cat secret-pod

507 env

508 cat secret-pod

509 k get nodes

510 k describe node worker-node-1.example.com

511 k get nodes --show-labels

512 k get nodes -l kubernetes.io/os=linux

513 k get nodes -l kubernetes.io/os=windows

514 cat deplo

515 cd workloads/

516 cat deploy

517 k get deploy -l app=nginx

518 wget https://raw.githubusercontent.com/sparkmbt/sparkmbt/main/kubesample.yaml

519 kubectl apply -f kubesample.yaml

520 k delete -f kubesample.yaml

521 vi kubesample.yaml

522 cat kubesample.yaml

523 k apply -f kubesample.yaml

524 k get pods -l tier=backend

525 k get pods -l tier=frontend

526 k get pods | grep redis

527 k get pods -l tier=backend

528 k get pods -l tier=frontend

529 k get pods -l app=kubesample

530 k get pods --show-labels

531 k get pods -l app=nginx

532 k get pods --show-labels

533 kubectl get pods -l 'tier notin (backend, frontend)'

534 kubectl get pods -l 'tier in (backend, frontend)'

535 k get pods -l tier=backend

536 k get pods --show-labels

537 k get pods -l tier=backend

538 k get pods --show-labels | grep redis

539 k get pods -l tier=backend

540 kubectl get pods -l 'tier in (backend), role notin (slave)'

541 kubectl get pods -l 'tier in (backend), role in (master)'

542 kubectl get pods -l 'tier in (backend), role in (slave)'

543 kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml

544 ​​wget -c https://gist.githubusercontent.com/initcron/1a2bd25353e1faa22a0ad41ad1c01b62/raw/008e23f9fbf4d7e2cf79df1dd008de2f1db62a10/k8s-metrics-server.patch.yaml

545 wget -c https://gist.githubusercontent.com/initcron/1a2bd25353e1faa22a0ad41ad1c01b62/raw/008e23f9fbf4d7e2cf79df1dd008de2f1db62a10/k8s-metrics-server.patch.yaml

546 kubectl patch deploy metrics-server -p "$(cat k8s-metrics-server.patch.yaml)" -n kube-system

547 k top pods

548 k get pods -n kube-system

549 k top pods

550 k top pods -A

551 k get nodes

552 k top nodes

553 k authscale

554 k autoscale

555 k autoscale --help

556 k get pods -l app=nginx

557 k autoscale deploy nginx-deployment --min=5 --max=10 --cpu-percent=80

# 10 June 2023

## Master

628 cat nodeName

629 k get nodes

630 cat nodeName

631 k get nodes

632 k apply -f nodeName

633 k get pod -o wide | grep name

634 k delete -f nodeName

635 vi nodeName

636 cat nodeName

637 k get nodes

638 k apply -f nodeName

639 k get pods -o wide | grep name

640 k apply -f nodeName

641 k get pods -o wide | grep name

642 k get nodes --ahow-labels

643 k get nodes --show-labels

644 cat nodeSelector

645 k get nodes -l nodeSelector:

646 cat nodeSelector

647 k get nodes -l disktype=ssd

648 k get nodes

649 k label node worker-node-1.example.com disktype=ssd

650 k get nodes -l disktype=ssd

651 cat nodeSelector

652 k apply -f nodeSelector

653 k get nodes -l disktype=ssd

654 k get pods -o wide | grep selec

655 k delete -f nodeSelector

656 history

657 k label node worker-node-1.example.com disktype-

658 k get nodes -l disktype=ssd

659 k apply -f nodeSelector

660 k get pods -o wide | grep selec

661 k label node worker-node-1.example.com disktype=ssd

662 k get pods -o wide | grep selec

663 k label node worker-node-1.example.com disktype-

664 k get pods -o wide | grep selec

665 cat nodeAff

666 k explain pod.spec.affinity.nodeAffinity.requiredDuringSchedulingIgnoredDuringExecution

667 k explain pod.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

668 cat nodeAff

669 k get nodes -l disktype=ssd

670 k label node worker-node-1.example.com disktype=ssd

671 k label node worker-node-2.example.com disktype=ssd network=fast

672 k get nodes -l disktype=ssd

673 k get nodes -l network=fast

674 k apply -f nodeAff

675 k get pods -o wide | grep aff

676 k get pods -o wide affinity-pod

677 k delete -f nodeAff

678 k label node worker-node-2.example.com disktype-

679 k get nodes -l network=fast

680 k get nodes -l disktype=ssd

681 k apply -f nodeAff

682 k get pods -o wide affinity-pod

683 history

684 k explain pod.spec.affinity.nodeAffinity

685 k explain pod.spec.affinity.nodeAffinity.preferredDuringSchedulingIgnoredDuringExecution

686 cat nodeAff

687 cat redis

688 cat nodeAff

689 k get pods -o wide affinity-pod

690 cat redis

691 k get pods -o wide | grep redis-cache

692 k apply -f redis

693 k get pods -o wide | grep redis-cache

694 cat web-server

695 cat redis

696 k get pods -l app=store

697 k get pods -l app=store -o wide

698 cat web-server

699 k get pods -l app=web-store -o wide

700 cat web-server

701 k get pods -l app=web-store -o wide

702 k get pods -l app=store -o wide

703 k apply -f web-server

704 k get pods -l app=web-store -o wide

705 k get rs

706 k get pods -o wide

707 k get pods -A -o wide | grep fluent

708 cat ../workloads/daemonset.yaml

709 k get nodes

710 k describe node master.example.com

711 k describe node master.example.com | grep Taint

712 k get nodes

713 k describe node worker-node-1.example.com | grep Taint

714 k describe node worker-node-2.example.com | grep Taint

715 k get nodes -l disktype=ssd

716 k get nodes -l network=fast

717 cat ../workloads/daemonset.yaml

718 k describe node master.example.com | grep Taint

719 date

720 date -s

721 apt-get install

722 cat sec

723 k apply -f sec

724 k exec -it security-context-demo -- sh

725 id -u

726 id -g

727 k exec -it security-context-demo -- sh

728 cat sec

729 cat priority

730 k get PriorityClass

731 cat pod-priority

732 k get PriorityClass

733 cat priority

734 k apply -f priority

735 cat priority

736 k get PriorityClass

737 cat pod-priority

738 k apply -f pod-priority

739 cat pod-priority

740 k get pod nginx

741 vi pod-priority

742 k apply -f pod-priority

743 k get pods nginx-pp

# 

# 11 June 2023

## Master

754 k explain svc

755 cat kubesample.yaml

756 k get pods -l app=nginx

757 cat kubesample.yaml

758 k apply -f kubesample.yaml

759 k get deploy redis-master

760 k get svc

761 k get svc redis

762 k describe svc redis

763 k get deploy redis-slave

764 k get svc redis-slave

765 k get deploy redis-slave

766 k get pods -o wide | grep redis-slave

767 k get svc redis-slave

768 k get ep redis-slave

769 k describe svc redis-slave

770 k get deploy frontend

771 k get pods -o wide | grep front

772 k get svc frontend

773 k get ep frontend

774 k describe svc frontend

775 cat kubesample.yaml

776 k create ns test

777 k get ns

778 cat nginx.yaml

779 cat kubesample.yaml

780 vi nginx-svc

781 cat nginx

782 cat nginx.yaml

783 vi nginx-svc

784 k apply -f nginx-svc

785 k get svc

786 k apply -f nginx-svc

787 cat nginx-svc

788 k get svc -n default

789 k get svc -n test

790 k get ep -n test

791 k get pods -l et svc -n test

793 cat nginx.yaml

794 k get ep -n test

795 k get pods -n test -l run=my-nginx

796 k apply -f nginx.yaml -n test

797 k get pods -n test -l run=my-nginx

798 k get pods -n test -l run=my-nginx -o wide

799 k get ep -n test

800 k get all -n test

801 k exec -it my-nginx-cf54cdbf7-f7bgr /bin/sh

802 k exec -it my-nginx-cf54cdbf7-f7bgr /bin/sh -n test

803 kubectl run curl --image=radial/busyboxplus:curl -i --tty

# 17 June 2023

## Master

cat ing-deploy

904 k apply -f ing-deploy

905 k get deploy cart

906 k get deploy orders

907 k get deployaccounts

908 k get deploy accounts

909 k get deploy orders

910 k get deploy cart

911 k get deploy orders

912 k get pods | grep prders

913 k get pods | grep orders

914 k get pods --show-labels | grep orders

915 k describe pod orders-6c6fbf47d5-qppqb

916 k get deploy cart

917 k expose deploy cart --name cart --port 80

918 k get svc cart

919 k get pods -o wide | grep cart

920 k get ep cart

921 k describe svc cart

922 k get deploy accounts

923 k expose --help

924 k expose --help | grep port

925 k explain svc.spec

926 k explain svc.spec | grep -i target

927 k explain svc.spec | grep -i targetport

928 k explain svc.spec | grep target

929 k explain svc.spec

930 k explain svc.spec.ports

931 k expose deploy accounts --name accounts --port 80

932 k get svc

933 k describe svc accounts

934 k expose deployment orders --name orders --port 80 --target-port 8080

935 k describe svc orders

936 k get pods -o wide | grep orders

937 k get svc

938 cat ing

939 k apply -f ing

940 k get ing

941 k get ingress

942 k get ing

943 k describe ing ingress-demo

944 k get ns

945 k get svc -n ingress-nginx

946 curl http://localhost:30157/cart

947 curl http://localhost:30157/orders

948 curl http://localhost:30157/or

949 curl http://localhost:30157/frontend

950 k get svc

951 curl http://localhost:30157/test3-nginx

952 curl http://localhost:30157/redis-master

953 k describe ing ingress-demo

954 curl http://localhost:30157/orders

955 curl http://localhost:30157/accounts

956 k describe ing ingress-demo

961 cd Storage/

962 ls

963 cat pod-vol-dir.yaml

964 cat pod-vol-emptyDir.yaml

965 k explain pod.spec.volume

966 k explain pod.spec.volumes

967 k explain pod.spec.volumes.emptydir

968 k explain pod.spec.volumes.emptyDir

969 cat pod-vol-emptyDir.yaml

970 k apply -f pod-vol-emptyDir.yaml

971 k get pods sharevol

972 k exec -it sharevol /bin/sh

973 k exec -it sharevol -c c1 /bin/sh

974 k exec -it sharevol -c c2 /bin/sh

975 k exec -it sharevol -c c1 /bin/sh

976 k get pods sharevol

977 k delete pof sharevol

978 k delete pod sharevol

979 k apply -f pod-vol-emptyDir.yaml

980 k exec -it sharevol -c c1 /bin/sh

981 k exec -it sharevol -c c2 /bin/sh

982 history

983 nslookup

984 ns

985 nsl 943 k describe ing ingress-demo

986 k describe ing ingress-demo

987 curl http://localhost:30157/cart

988 nslookup master.example.com

989 nslookup localhost

990 cat /etc/host

991 cat /etc/hosts

992 k describe ing ingress-demo

993 k get ds -n kube-system

994 k explain pod.spec.volumes

995 ls /var/log/

996 cat workloads/daemonset.yaml

997 cd Storage/

998 cat pod-vol-dir.yaml

999 ls /var/log/webapp

1000 vi pod-vol-dir.yaml

1001 cat pod-vol-dir.yaml

1002 k apply -f pod-vol-dir.yaml

1003 k get pods -o wide webapp

1004 k exec -it webapp /bin/sh

1005 ls /var/log | grep swami

1006 cat pod-vol-dir.yaml

1007 k get pods -o wide webapp

1008 ls /var/log | grep swami

1009 k delete pod webapp

1010 k apply -f pod-vol-dir.yaml

1011 k exec -it webapp /bin/sh

1012 k get pods webapp -o wide

1013 k get cm

1014 k describe cm game-demo

1015 cat

1016 ls

1017 vi cm-pod

1018 cat cm-pod

1019 k explain pod.spec.volumes

1020 cat cm-pod

1021 k get cm

1022 k apply -f cm-pod

1023 k exec -it configmap-pod /bin/sh

1024 k get secret

1025 k describe secret my-secret

1026 k describe secret mysecret

1027 vi sec-pod

1028 kubectl apply -f sec-pod

1029 k exec -it secret-pod /bin/sh

1030 cat pod-vol-emptyDir.yaml

1031 cat pod-vol-dir.yaml

# 18 May 2023

## Master

1033 k api-resources

1034 cd Storage/

1035 cat pv.yaml

1036 k explain pv.spec

1037 cat pv.yaml

1038 cat pod-vol-dir.yaml

1039 cat pv.yaml

1040 k apply -f pv.yaml

1041 k get pv

1042 k api-resources

1043 k get pv

1044 k explain pvc

1045 cat pv.yaml

1046 cat pvc.yaml

1047 k get pv

1048 cat pvc.yaml

1049 k apply -f pvc

1050 k apply -f pvc.yaml

1051 k get pv

1052 k pget pvc

1053 k get pvc

1054 cat pvc.yaml

1055 k get pv

1056 k get pvc

1057 k delete -f pvc.yaml

1058 k get pvc

1059 k get pv

1060 cat pod-pvc.yaml

1061 k explain pod.spec.volumes

1062 cat pod-pvc.

1063 cat pod-pvc.yaml

1064 k get pvc

1065 k apply -f pvc.yaml

1066 k get pvc

1067 k delete -f pv.yaml

1068 k delete -f pvc.yaml

1069 k apply -f pv.yaml

1070 k apply -f pvc.yaml

1071 k get pv

1072 k get pvc

1073 k get pv

1074 k get pvc

1075 k apply -f pod-pvc.yaml

1076 k get pods task-pv-pod

1077 k get pods task-pv-pod -o wide

1078 cat pod-pvc.yaml

1079 k exec -it task-pv-pod /bin/sh

1080 cat pv.yaml

1081 cat pod-pvc.yaml

1082 k delete -f pod-pvc.yaml

1083 k apply -f pod-pvc.yaml

1084 k get pods task-pv-pod -o wide

1085 k exec -it task-pv-pod /bin/sh

1086 cat pod-pvc.yaml

1087 k exec -it task-pv-pod "ls /usr/share/nginx/html"

1088 k exec -it task-pv-pod -- ls /usr/share/nginx/html

1089 k get pv

1090 k get pvc

1091 cat pv.yaml

1092 cat pvc.yaml

1093 cat pod-pvc.yaml

## Worker-node

79 cd /mnt/data

80 ls

# 24th June 2023

## Master

1112 k explain roles

1113 k get roles

1114 k get roles -A

1115\* k des roles -n kubernetes-dashboard

1116 k get roles -n kubernetes-dashboard

1117 k describe roles -n kubernetes-dashboard

1118 k get secret -n kubernetes-dashboard

1119 k create role developer --verb create --verb delete --verb list --verb update --resource pods -n test

1120 k get role -n test

1121 k describe role -n test

1122 k get nbs

1123 k get ns

1124 k explain role

1125 k explain role.rules

1126 k explain role.rules.verbs

1127 k get roles -n test

1128 k describe role -n test

1129 k get roles -n kubernetes-dashboard

1130 k get rolebinding -n kubernetes-dashboard

1131 k describe rolebinding -n kubernetes-dashboard

1132 k create rolebinding developer-binding-swami --role developer --user swami -n test

1133 k get rolebinding -n test

1134 k describe rolebinding -n test

1135 k get rolebinding

1136 k get rolebinding -A

1137 k get deploy -n test

1138 k get deploy -n test --as swami

1139 k get roles -n kubernetes-dashboard

1140 k describe rolebinding -n kubernetes-dashboard

1141 k describe role -n test

1142 k get deploy -n test --as swami

1143 k get pods -n test --as swami

1144 k get secret -n test --as swami

1145 k explain role

1146 k explain role --recurrsive

1147 k explain role --recursive

1148 k explain role.rukles

1149 k explain role.rules

1150 k get clusterrole

1151 k api-resources

1152 k get nodes --as swami

1153 k get clusterrole

1154 k describe clusterrole admin

1155 k get nodes --as swami

1156 k create clusterrole nodes-view --verb=get,list --resources nodes

1157 k create clusterrole nodes-view --verb=get,list --resource nodes

1158 k get clusterrole nodes-view

1159 k create clusterrolebinding nodes-view-swami --clusterrole nodes-view --user swami

1160 k get nodes --as swami