

K8 : Pod

Get list of namespaces	<code>kubectl get ns</code>
Get list of pods in a namespace	<code>kubectl get pod -n [namespace]</code>
To get all running pods	<code>kubectl get pods --field-selector=status.phase=Running</code>
Get list of services in a namespace	<code>kubectl get svc -n [namespace]</code>
Get list of deployment in a namespace	<code>kubectl get deployment -n [namespace]</code>
Get list of stateful set in a namespace	<code>kubectl get sts -n [namespace]</code>
Get list of all resources in a namespace	<code>kubectl get all -n [namespace]</code>
Get daemon list in namespace	<code>kubectl get ds -n [namespace]</code>
To exec into a pod	<code>kubectl exec -it [pod] -n [namespace] sh</code>
To get pod logs	<code>kubectl logs -f [pod] -n [namespace]</code>
To get cpu and memory utilization of pod	<code>kubectl top pod -n [namespace]</code>
Kill a pod	<code>kubectl delete pod [pod] -n [namespace] --force --grace-period=0</code>
Copy data from pod	<code>kubectl cp [namespace]/[podname] :[filename]</code>
	<code>--show-labels</code>
	<code>--all-namespaces</code>
	<code>--sort-by=.spec.capacity</code>

K8 : Helm 2

Docker (cont)

List images	<code>docker images</code>
	<code>docker images -q</code>
	<code>sudo docker run -p 8080:8080 -p 50000:50000 jenkins</code>
	<code>sudo docker rmi 7a86f8fcb25</code>
	<code>sudo docker inspect jenkins</code>
	<code>docker ps</code>
	<code>docker ps -a</code>
	<code>sudo docker history centos</code>
	<code>sudo docker top 9f215ed0b0d3</code>
	<code>sudo docker stop 9f215ed0b0d3</code>
	<code>sudo docker rm 9f215ed0b0d3</code>
	<code>sudo docker attach 07b0b6f434fe</code>
	<code>sudo docker pause 07b0b6f434fe</code>
	<code>sudo docker kill 07b0b6f434fe</code>

Linux : Setup password less login b/w hosts

Create key in source server	<code>ssh-keygen -t rsa</code>
Copy public key to target server	<code>ssh-copy-id target</code>
Alternate : Copy id_rsa.pub content to .ssh/authorized_keys. 700 to .ssh 640 to authorized_keys	

LINUX : YUM

To install a package	<code>yum install firefox</code> or <code>yum -y install firefox</code>
Install a package from Specific Repository	<code>yum --enable epel install phpmyadmin</code>
To remove a package completely with their all dependencies	<code>yum remove firefox</code> or <code>yum -y remove firefox</code>
To update a installed package	<code>yum update mysql</code>
List a Package using YUM	<code>yum list openssh</code>
Search for a package using YUM	<code>yum search vsftpd</code>

Get list of deployed Helm	<code>helm ls</code>
Deploy a helm	<code>helm install [folde rpath] -n [helmname] --name space [names pa ce]</code>
Update a helm	<code>helm upgrade -f [patht ova lue s.yaml] [helmname] .</code>
Delete a helm	<code>helm delete --purge [helmname]</code>

Docker	
Get version of docker	<code>docker version</code>
Get information on docker	<code>docker info</code>
Pull image from registry	<code>docker pull [image]</code>
Run an image	<code>docker run [image]</code>
Run image and login to pod	<code>docker run -it [image] /bin/bash</code>

Get Information of a Package using YUM

```
yum info firefox
```

To list all the available packages in the Yum database

```
yum list | less
```

List all Installed Packages using YUM

```
yum list installed | less
```

To know the name of the package that has the /etc/httpd/conf

```
yum provides /etc/httpd/conf/ht tpd/c onf /ht tpd.conf
```

To find how many of installed packages on your system have updates available.

```
yum check- update
```

Install all latest patches and security updates to your system

```
yum update
```



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Page 1 of 5.

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LINUX : YUM (cont)

List all available Group Packages	<code>yum grouplist</code>
Install a Group Packages	<code>yum groupinstall 'MySQL Database'</code>
Update a Group Packages	<code>yum groupupdate 'DNS Name Server'</code>
Remove a Group Packages	<code>yum groupremove 'DNS Name Server'</code>
To list all enabled Yum repositories in your system	<code>yum repolist</code>
List all Enabled and Disabled Yum Repositories	<code>yum repolist all</code>
Interactive Yum Shell	<code>yum shell</code>
Clean Yum Cache	<code>yum clean all</code>
To view all the past transactions of yum command	<code>yum history</code>

:
:

K8 : Node

K8 : Volume

Create secret in storage	<code>maprlogin password</code>
Convert secret (/any text) to base64	<code>echo -n "[mapr password content]" base64</code>
Get list of secrets in a namespace	<code>kubectl get secret -n [namespace]</code>
Get list of PVC in a namespace	<code>kubecrl get pvc -n [namespace]</code>
To get details of PV	<code>kubectl describe pv [pvname]</code>
Edit a PV	<code>kubectl edit pv [pvname]</code>
Detail details of mount	<code>maprcli volume info -name insite_bharti -i sor yquota</code>

Create secret & Mount details - To be executed in storage node

Linux : Service Management

Check status of service	<code>systemctl status [service name]</code>
Start a service	<code>systemctl start [service name]</code>
Stop a service	<code>systemctl stop [service name]</code>
enable a service and start now	<code>systemctl enable [service name] --now</code>
disable a service and stop now	<code>systemctl disable [service name] --now</code>
check service logs	<code>journalctl -xe</code>

GIT

Display addresses of the master and services	<code>kubectl cluster-info</code>	Get version of git	<code>git --version</code>
Get list of nodes in cluster	<code>kubectl get nodes</code>	Initialize local git repo in a folder	<code>git init</code>
Get all details of a node	<code>kubectl describe node [nodename]</code>	Add files to index	<code>git add file1 file2</code>
Get vital details of node	<code>kubectl describe node apollo.com/p23 grep 'Topology'</code>	Other add options:	<code>All: git add . All match: *.sh</code> <code>Options: \cp u\ slave\ Hostname: \m emory'</code>
Taint a node	<code>kubectl taint node [nodename] temp=t emp :No scheduling</code>	Remove file from tracking	<code>git rm --cached file1</code>
Untaint a node	<code>kubectl taint node [nodename] temp-</code>	Check status of working tree	<code>git status</code>
Make a node unschedulable	<code>kubectl cordon [nodename]</code>	Commit the changes	<code>git commit -m 'new change'</code>
Make a node schedulable	<code>kubectl uncordon [nodename]</code>	Set remote repo	<code>git remote add origin https://github.com/</code>
Drain a node	<code>kubectl drain [nodename]</code>	Push to remote repo	<code>git push -u origin master</code>
Dump cluster state to file	<code>kubectl cluster-info dump --output-dir /etc/kubernetes/manifests</code>	Pull updates from repo	<code>git pull</code>
Display node type	<code>kubectl get nodes -o json jq -Cjr '.items[] select(.metadata.labels["node.kubernetes.io/arch"], "node.kubernetes.io/os") sort -k3 -r</code>	Clone a repo to local (with login)	<code>git clone git@github.com:rajuganesh/oc-ker.git</code>



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Page 2 of 5.

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GIT (cont)

clone a repo to local (without login)

```
git clone git@github.com:ypasm/k/r-obo-t-f-ram-ewo-rk-d-oc-ker.git
```

Set user name

```
git config user.name 'abcd'
```

Set user email

```
git config user.email 'abc@def.com'
```

Blacklist files

Create .gitignore file and add exception list in it

Linux Commands

List directory including hidden file

```
ls -la
```

Size of each folder/file in current directory

```
du -d 1 -h
```

Create directory

```
mkdir [dirname]
```

Rename directory

```
mv [dirname] [newname]
```

Copy directory

```
cp -r [dirname] [newname]
```

Remove directory

```
rm -rf [dir1] [dir2]
```

Create a file

```
touch [filename]
```

Edit file

```
vi [filename]
```

Create 1 GB file unreadable content

```
dd if=/dev/zero of=file.txt count=1024 bs=1048576
```

Create 2 GB file readable content

```
dd if=/dev/urandom of=file2.txt bs=2048 count=1000000
```



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Page 3 of 5.

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