

DevOps Commands & Tools

Linux Commands

Command	Usage	Description
ls	ls -la	List files and directories
cd	cd /var/log	Change directory
pwd	pwd	Show current path
cp	cp a b	Copy files/directories
mv	mv old new	Move or rename
rm	rm -rf dir	Delete files/directories
chmod	chmod 755 file	Change permissions
chown	chown user:group file	Change ownership
ps	ps aux	View running processes
top	top	Real-time process monitor
df	df -h	Disk usage
free	free -m	Memory usage
grep	grep "err" file	Search text
awk	awk '{print \$1}'	Text processing
sed	sed 's/a/b/'	Stream editor
systemctl	systemctl status nginx	Manage services

Git Commands

Command	Description
git init	Initialize repo
git clone	Clone repository
git status	Repo status
git add .	Stage changes
git commit -m	Commit changes
git push	Push to remote
git pull	Fetch + merge
git branch	List branches
git checkout	Switch branch
git merge	Merge branches
git log	Commit history
git stash	Save temp changes

3. Docker Commands

Command	Description
docker version	Docker info
docker build	Build image
docker images	List images
docker ps	Running containers
docker ps -a	All containers
docker run	Run container
docker stop	Stop container
docker rm	Remove container
docker rmi	Remove image
docker exec	Exec inside container
docker logs	View logs
docker-compose up	Run multi-container

Kubernetes Commands

Command	Description
kubectl get pods	List pods
kubectl get nodes	Cluster nodes
kubectl describe pod	Pod details
kubectl apply -f	Apply YAML
kubectl delete -f	Delete resources
kubectl logs	Pod logs
kubectl exec	Exec into pod
kubectl scale	Scale deployment
kubectl rollout status	Deployment status
kubectl config get-contexts	Contexts

Terraform Commands

Command	Description
terraform init	Initialize directory
terraform plan	Execution plan
terraform apply	Create resources
terraform destroy	Destroy infra
terraform validate	Validate config
terraform fmt	Format code
terraform state list	Show state

Jenkins (Pipeline & CLI)

Command	Description
jenkins-cli.jar	Jenkins CLI
build job	Trigger build
console	View logs
pipeline {}	Declarative pipeline

Ansible Commands

Command	Description
ansible --version	Check version
ansible all -m ping	Ping hosts
ansible-playbook	Run playbook
ansible-inventory	Inventory info
ansible-galaxy	Roles management

Shell Scripting Basics

Command	Description
#!/bin/bash	Shebang
echo	Print output
read	Read input
if / else	Conditions
for / while	Loops
\$?	Exit code
set -e	Exit on error

Grafana

Command / Feature	Description
Dashboards	Visualize metrics
Panels	Charts
Data Sources	Prometheus, Loki
Alerts	Threshold alerts

Prometheus

Component	Description
Prometheus Server	Metrics collection
Node Exporter	Host metrics
Alertmanager	Alerts
PromQL	Query language

ELK Stack

Tool	Description
Elasticsearch	Search & index
Logstash	Log processing
Kibana	Visualization
Beats	Log shippers

Networking Commands

Command	Description
ip a	IP addresses
ip route	Routing table
ping	Connectivity test
traceroute	Path tracing
netstat	Network stats
ss	Socket info
curl	HTTP requests
wget	Download files
nslookup	DNS lookup
tcpdump	Packet capture

AWS CLI Commands

Command	Description
aws configure	Setup CLI
aws ec2 describe-instances	EC2 info
aws s3 ls	List S3 buckets
aws s3 cp	Upload/download
aws iam list-users	IAM users
aws eks list-clusters	EKS clusters
aws cloudwatch get-metric-data	Metrics