

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

3. Docker Commands

Command	Description
<code>docker version</code>	Docker info
<code>docker build</code>	Build image
<code>docker images</code>	List images
<code>docker ps</code>	Running containers
<code>docker ps -a</code>	All containers
<code>docker run</code>	Run container
<code>docker stop</code>	Stop container
<code>docker rm</code>	Remove container
<code>docker rmi</code>	Remove image
<code>docker exec</code>	Exec inside container
<code>docker logs</code>	View logs
<code>docker-compose up</code>	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
<code>ansible --version</code>	Check version
<code>ansible all -m ping</code>	Ping hosts
<code>ansible-playbook</code>	Run playbook
<code>ansible-inventory</code>	Inventory info
<code>ansible-galaxy</code>	Roles management

Shell Scripting Basics

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