

DevOps & Cloud Commands Cheat Sheet

Essential Linux, Git, Docker, Kubernetes, AWS CLI, and CI/CD commands for developers and engineers. Bookmark this page for quick reference!

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Linux

Git

Docker

Kubernetes

AWS CLI

CI/CD

Search commands (e.g., 'docker run', 'git commit', 'kubectl get')...

Linux Commands

Essential system administration

File Operations

List files with details

```
ls -la
```

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Find files by name

```
find /path -name "filename"
```

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Search in files (grep)

```
grep -r "pattern" /path
```

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System Monitoring

Check disk usage

```
df -h
```

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Monitor processes

```
top
```

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Check memory usage

```
free -m
```

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Git Commands

Version control essentials

Branch Management

Create and switch to new branch

```
git checkout -b feature-branch
```

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List all branches

```
git branch -a
```

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Delete branch

```
git branch -d branch-name
```

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Commit & History

Stage and commit with message

```
git commit -am "Commit message"
```

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View commit history

```
git log --oneline --graph
```

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Undo last commit (keep changes)

```
git reset --soft HEAD~1
```

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Docker Commands

Container management

Container Management

Run a container Essential

```
docker run -d -p 8080:80 --name mya
```

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List running containers

```
docker ps
```

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Stop and remove container

```
docker rm -f container_name
```

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Image Management

Build Docker image

```
docker build -t myimage:tag .
```

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List all images

```
docker images
```

Copy

Push to registry

```
docker push username/image:tag
```

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Kubernetes (kubectl)

Cluster orchestration

Get & Describe

List all pods

```
kubectl get pods
```

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Describe resource details

```
kubectl describe pod pod-name
```

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List all resources

```
kubectl get all
```

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Create & Apply

Apply YAML configuration

```
kubectl apply -f deployment.yaml
```

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Run temporary pod

```
kubectl run test --image=nginx --re
```

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Expose service

```
kubectl expose deployment myapp --t
```

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AWS CLI Commands

Cloud infrastructure management

EC2 Management

List EC2 instances

```
aws ec2 describe-instances
```

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Start/Stop instance

```
aws ec2 start-instances --instance-
```

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Create key pair

```
aws ec2 create-key-pair --key-name
```

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S3 & Storage

List S3 buckets

```
aws s3 ls
```

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Copy file to S3

```
aws s3 cp file.txt s3://mybucket/
```

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Sync directory to S3

```
aws s3 sync ./dist s3://mybucket/ -
```

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CI/CD & Automation

Jenkins, GitHub Actions, Terraform

GitHub Actions

Run workflow manually

```
# In .github/workflows/deploy.yml o
```

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Matrix strategy example

```
jobs: test: strategy: matrix: node-
```

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Terraform

Initialize Terraform

```
terraform init
```

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Plan changes

```
terraform plan -out=tfplan
```

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Apply configuration

```
terraform apply tfplan
```

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Quick Reference & Tips

Linux Shortcuts

- Ctrl+C - Kill process
- Ctrl+Z - Suspend process
- Ctrl+R - Reverse search history
- !! - Repeat last command

Git Aliases

- git config --global alias.co checkout
- git config --global alias.br branch
- git config --global alias.ci commit
- git config --global alias.st status

Docker Tips

- Clean up unused containers: `docker system prune`
- View logs: `docker logs -f container_name`
- Execute command in running container: `docker exec -it container_name bash`

kubectl Shortcuts

- `kubectl get po - pods`
- `kubectl get svc - services`
- `kubectl get deploy - deployments`
- `kubectl get ns - namespaces`