

Top 500 DevOps Commands



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500 Essential DevOps Commands

Linux Commands

1. `uname -a` - Show system information
2. `uptime` - Show system uptime
3. `hostname` - Show hostname
4. `whoami` - Show current user
5. `ls -lah` - List directory contents with permissions
6. `pwd` - Show current directory
7. `cd /path` - Change directory
8. `mkdir -p /path` - Create a directory (with parent if needed)
9. `rm -rf /path` - Remove directory recursively
10. `cp -r source target` - Copy files/directories recursively



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11. `mv oldname newname` - Move/Rename file
 12. `ps aux` - Show running processes
 13. `top` - Show real-time system performance
 14. `kill -9 PID` - Kill a process forcefully
 15. `pkill -f process_name` - Kill process by name
 16. `df -h` - Show disk space usage
 17. `du -sh /path` - Show directory size
 18. `netstat -tulnp` - Show listening ports
 19. `ss -tulnp` - Show listening ports (alternative)
 20. `who` - Show logged-in users
 21. `adduser username` - Create a new user
 22. `passwd username` - Change user password
 23. `usermod -aG group user` - Add user to a group
 24. `grep "text" file.txt` - Search for a string in a file
 25. `find /path -name "*.log"` - Find files matching pattern

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26. `chmod 755 file.sh` - Change file permissions
 27. `chown user:group file` - Change file owner
 28. `tar -czf archive.tar.gz directory/` - Compress files
 29. `tar -xzf archive.tar.gz` - Extract compressed file
 30. `cat file.txt` - View file contents
 31. `tail -f /var/log/syslog` - View real-time log updates
 32. `echo "text" >> file.txt` - Append text to file
 33. `history` - Show command history
 34. `clear` - Clear terminal screen
 35. `alias ll='ls -lah'` - Create an alias
 36. `df -Th` - Show file system disk space
 37. `wc -l file.txt` - Count number of lines in a file
 38. `cut -d':' -f1 /etc/passwd` - Extract first column from file
 39. `awk '{print $1}' file.txt` - Print first column of

Text

40. `sed -i 's/old/new/g' file.txt` - Replace text in a file
41. `crontab -e` - Edit cron jobs
42. `cron -l` - List scheduled cron jobs
43. `rsync -av source/ target/` - Sync files
44. `scp user@host:/path/to/file .` - Secure copy file
45. `ssh user@host` - SSH into a server
46. `exit` - Logout from shell
47. `uptime` - Show system uptime
48. `free -m` - Show memory usage
49. `top` - Show system performance
50. `vmstat` - Show CPU/memory stats

Git Commands

- 51. `git init` - Initialize a git repository
- 52. `git clone repo_url` - Clone a repository
- 53. `git status` - Show changes
- 54. `git add .` - Stage all changes
- 55. `git commit -m "msg"` - Commit changes
- 56. `git push origin branch` - Push changes
- 57. `git pull origin branch` - Pull latest changes
- 58. `git checkout branch` - Switch branch
- 59. `git branch -a` - List all branches
- 60. `git merge branch` - Merge branch into current branch
- 61. `git log --oneline` - Show commit history
- 62. `git diff` - Show changes
- 63. `git stash` - Stash changes
- 64. `git stash pop` - Apply stashed changes

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65. `git reset --hard HEAD~1` - Reset last commit
 66. `git revert commit_id` - Revert commit
 67. `git tag -a v1.0 -m "Version 1.0"` - Create tag
 68. `git push --tags` - Push tags
 69. `git rm file` - Remove a file from git
 70. `git clean -fd` - Remove untracked files
 71. `git config --global user.name "Your Name"` - Set global username
 72. `git config --global user.email "you@example.com"`
- Set global email
 73. `git show commit_id` - Show commit details
 74. `git blame file.txt` - Show changes by line
 75. `git remote -v` - Show remote repositories
 76. `git remote add origin URL` - Add remote repo
 77. `git rebase branch` - Rebase branch
 78. `git cherry-pick commit_id` - Pick specific commit

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79. `git fetch` - Fetch remote changes
 80. `git log --graph` - Show graphical commit log
 81. `git branch -d branch_name` - Delete branch
 82. `git pull --rebase` - Rebase while pulling
 83. `git push --force` - Force push changes
 84. `git reflog` - Show reflog
 85. `git diff HEAD~1` - Show last commit changes
 86. `git apply patch.diff` - Apply patch
 87. `git reset --soft HEAD~1` - Soft reset
 88. `git archive --format=tar.gz HEAD > archive.tar.gz`
- Archive repo
 89. `git grep "search_term"` - Search for text
 90. `git bisect start` - Start binary search
 91. `git ls-files` - List tracked files
 92. `git update-index --assume-unchanged file` - Ignore
file temporarily

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- 93. `git push origin --delete branch_name` - Delete remote branch
 - 94. `git pull --all` - Fetch all branches
 - 95. `git submodule add URL path` - Add a submodule
 - 96. `git submodule update --init --recursive` - Update submodules
 - 97. `git commit --amend -m "Updated commit message"` - Amend commit
 - 98. `git fetch --prune` - Remove deleted remote branches
 - 99. `git push --mirror destination_url` - Mirror repository
 - 100. `git worktree add ../branch_name branch_name` - Work with multiple branches

Docker Commands

- 101. `docker --version` - Check Docker version
- 102. `docker ps` - List running containers
- 103. `docker ps -a` - List all containers
- 104. `docker images` - List all images



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105. `docker run -d -p 8080:80 image_name` - Run a container
 106. `docker exec -it container_id bash` - Access a running container
 107. `docker stop container_id` - Stop a container
 108. `docker rm container_id` - Remove a container
 109. `docker rmi image_id` - Remove an image
 110. `docker-compose up -d` - Start containers using Docker Compose
 111. `docker-compose down` - Stop and remove all containers
 112. `docker build -t my_image .` - Build an image from a Dockerfile
 113. `docker pull image_name` - Download an image from Docker Hub
 114. `docker push myrepo/image_name` - Push image to registry
 115. `docker logs container_id` - View container logs

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- 116. `docker inspect container_id` - Get container details
 - 117. `docker network ls` - List Docker networks
 - 118. `docker network inspect network_name` - Inspect network details
 - 119. `docker volume ls` - List Docker volumes
 - 120. `docker volume inspect volume_name` - Inspect volume details
 - 121. `docker system prune -a` - Clean up unused containers, images, and networks
 - 122. `docker login` - Authenticate with Docker Hub
 - 123. `docker logout` - Logout from Docker Hub
 - 124. `docker stats` - Show live container resource usage
 - 125. `docker top container_id` - Show running processes inside a container
 - 126. `docker tag image_id new_repo:new_tag` - Tag an image
 - 127. `docker restart container_id` - Restart a container

128. `docker update --restart=always container_id` - Set restart policy

129. `docker rename old_name new_name` - Rename a container

130. `docker wait container_id` - Wait for a container to exit

131. `docker events` - Show real-time events

132. `docker history image_name` - Show image history

133. `docker cp container_id:/path/to/file .` - Copy file from container

134. `docker diff container_id` - Show container file changes

135. `docker pause container_id` - Pause a running container

136. `docker unpause container_id` - Resume a paused container

137. `docker info` - Show Docker system information

138. `docker search image_name` - Search for an image on Docker Hub



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139. `docker run --rm image_name` - Run a container and remove after exit
 140. `docker network create my_network` - Create a custom Docker network
 141. `docker network connect my_network container_id` - Connect container to a network
 142. `docker network disconnect my_network container_id` - Disconnect container from a network
 143. `docker-compose build` - Build services defined in `docker-compose.yml`
 144. `docker-compose ps` - List services in a Docker Compose setup
 145. `docker-compose restart` - Restart all services in Compose
 146. `docker-compose logs -f` - Tail logs for all services
 147. `docker-compose exec service_name bash` - Run command inside a service container
 148. `docker-compose scale service=3` - Scale a service to 3 instances

149. `docker-compose stop` - Stop all services without removing containers

150. `docker-compose config` - Validate Docker Compose config

Kubernetes (kubectl)

151. `kubectl get nodes` - List nodes in the cluster

152. `kubectl get pods` - List pods

153. `kubectl describe pod pod_name` - Show pod details

154. `kubectl logs pod_name` - Show pod logs

155. `kubectl exec -it pod_name -- bash` - Access a running pod

156. `kubectl apply -f file.yaml` - Apply a YAML file

157. `kubectl delete pod pod_name` - Delete a pod

158. `kubectl get svc` - List services

159. `kubectl get deployments` - List deployments

160. `kubectl scale deployment my-deploy --replicas=5` - Scale deployment

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- 161. `kubectl rollout status deployment my-deploy` -
Check rollout status

 - 162. `kubectl get configmaps` - List ConfigMaps

 - 163. `kubectl get secrets` - List Secrets

 - 164. `kubectl create configmap my-config`
`--from-file=config.txt` - Create ConfigMap

 - 165. `kubectl create secret generic my-secret`
`--from-literal=key=value` - Create Secret

 - 166. `kubectl port-forward pod/my-pod 8080:80` - Forward
port

 - 167. `kubectl delete svc my-service` - Delete a service

 - 168. `kubectl expose deployment my-deploy`
`--type=NodePort --port=80` - Expose deployment

 - 169. `kubectl get ingress` - List Ingress resources

 - 170. `kubectl describe ingress my-ingress` - Show
Ingress details

 - 171. `kubectl get namespaces` - List namespaces

 - 172. `kubectl create namespace my-namespace` - Create a
namespace

173. `kubectl delete namespace my-namespace` - Delete a namespace

174. `kubectl config view` - View kubeconfig settings

175. `kubectl get events` - Show cluster events

176. `kubectl drain node_name` - Drain a node for maintenance

177. `kubectl uncordon node_name` - Mark node as schedulable

178. `kubectl taint nodes node_name key=value:NoSchedule` - Taint a node

179. `kubectl edit deployment my-deploy` - Edit deployment config

180. `kubectl rollout undo deployment my-deploy` - Rollback deployment

181. `kubectl set image deployment/my-deploy container-name=myimage:v2` - Update container image

182. `kubectl autoscale deployment my-deploy --min=2 --max=5 --cpu-percent=80` - Autoscale deployment

183. `kubectl get hpa` - Show Horizontal Pod Autoscaler

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184. `kubectl cordon node_name` - Mark node as unschedulable
 185. `kubectl delete -f resource.yaml` - Delete a resource using YAML
 186. `kubectl top nodes` - Show node resource usage
 187. `kubectl top pods` - Show pod resource usage
 188. `kubectl get pv` - List PersistentVolumes
 189. `kubectl get pvc` - List PersistentVolumeClaims
 190. `kubectl logs -f pod_name` - Stream logs from a pod
 191. `kubectl exec -it pod_name -- sh` - Access a pod using `sh` shell
 192. `kubectl delete pod --grace-period=0 --force pod_name` - Force delete pod
 193. `kubectl getall` - List all resources
 194. `kubectl getroles` - List roles
 195. `kubectl getrolebindings` - List role bindings
 196. `kubectl getclusterroles` - List cluster roles

197. `kubectl get clusterrolebindings` - List cluster role bindings

198. `kubectl get networkpolicy` - List network policies

199. `kubectl delete node node_name` - Delete a node

200. `kubectl run nginx --image=nginx --restart=Never` -
Run a single pod

Terraform Commands

201. `terraform --version` - Check Terraform version

202. `terraform init` - Initialize Terraform working directory

203. `terraform plan` - Show execution plan

204. `terraform apply -auto-approve` - Apply configuration

205. `terraform destroy -auto-approve` - Destroy infrastructure

206. `terraform show` - Show Terraform state

207. `terraform validate` - Validate Terraform configuration



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- 208. `terraform fmt` - Format Terraform code
 - 209. `terraform providers` - List providers used
 - 210. `terraform state list` - Show managed resources
 - 211. `terraform state show resource_name` - Show specific resource details
 - 212. `terraform state rm resource_name` - Remove resource from state
 - 213. `terraform taint resource_name` - Mark resource for recreation
 - 214. `terraform untaint resource_name` - Remove taint from resource
 - 215. `terraform import resource_type.name id` - Import existing infrastructure
 - 216. `terraform refresh` - Refresh state file
 - 217. `terraform graph` - Generate dependency graph
 - 218. `terraform workspace list` - List available workspaces
 - 219. `terraform workspace select workspace_name` -

Switch workspace

220. `terraform workspace new workspace_name` - Create new workspace

221. `terraform state mv old_resource new_resource` - Rename resource

222. `terraform output` - Show Terraform outputs

223. `terraform output output_name` - Get specific output value

224. `terraform apply -target=resource_name` - Apply specific resource

225. `terraform console` - Open interactive Terraform shell

226. `terraform debug` - Enable debugging logs

227. `terraform version` - Show installed Terraform version

228. `terraform plan -var="instance_type=t2.micro"` - Pass variable via CLI

229. `terraform apply -var-file="vars.tfvars"` - Apply using variable file



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- 230. `terraform apply -auto-approve` - Skip manual approval
 - 231. `terraform workspace delete workspace_name` - Delete workspace
 - 232. `terraform plan -detailed-exitcode` - Get exit codes for changes
 - 233. `terraform force-unlock LOCK_ID` - Unlock Terraform state
 - 234. `terraform state push` - Manually push state file
 - 235. `terraform state pull` - Download current state file
 - 236. `terraform output -json` - Get output in JSON format
 - 237. `terraform fmt -recursive` - Format Terraform in subdirectories
 - 238. `terraform destroy -target=resource_name` - Destroy specific resource
 - 239. `terraform show -json` - Show JSON output
 - 240. `terraform validate -no-color` - Validate without

Colors

241. `terraform workspace select default` - Switch to default workspace

242. `terraform plan -var 'region=us-east-1'` - Pass a variable inline

243. `terraform apply -refresh-only` - Only refresh state, do not modify

244. `terraform state replace-provider old new` - Replace provider

245. `terraform plan -out=tfplan` - Save plan output

246. `terraform apply tfplan` - Apply saved plan

247. `terraform version -json` - Output Terraform version in JSON

248. `terraform workspace show` - Show current workspace

249. `terraform plan -var-file=config.tfvars` - Use a variable file

250. `terraform output -state=terraform.tfstate` - Show output from a specific state file

Jenkins CLI Commands

251. `java -jar jenkins-cli.jar -s http://localhost:8080/ help` - Show CLI help
252. `java -jar jenkins-cli.jar -s http://localhost:8080/ list-jobs` - List all jobs
253. `java -jar jenkins-cli.jar -s http://localhost:8080/ build job_name` - Trigger a job
254. `java -jar jenkins-cli.jar -s http://localhost:8080/ console job_name` - View job console output
255. `java -jar jenkins-cli.jar -s http://localhost:8080/ delete-job job_name` - Delete a job
256. `java -jar jenkins-cli.jar -s http://localhost:8080/ disable-job job_name` - Disable a job
257. `java -jar jenkins-cli.jar -s http://localhost:8080/ enable-job job_name` - Enable a job
258. `java -jar jenkins-cli.jar -s`

```
http://localhost:8080/ safe-restart - Restart Jenkins  
safely
```

```
259. java -jar jenkins-cli.jar -s  
http://localhost:8080/ set-build-description  
job_name 1 "Updated Description" - Update  
build description
```

```
260. java -jar jenkins-cli.jar -s  
http://localhost:8080/ version - Show Jenkins  
version
```

```
261. java -jar jenkins-cli.jar -s  
http://localhost:8080/ who-am-i - Check  
authenticated user
```

```
262. java -jar jenkins-cli.jar -s  
http://localhost:8080/ get-job job_name - Get  
job config
```

```
263. java -jar jenkins-cli.jar -s  
http://localhost:8080/ set-job job_name <  
config.xml - Set job config
```

```
264. java -jar jenkins-cli.jar -s  
http://localhost:8080/ shutdown - Shutdown  
Jenkins
```

```
265. java -jar jenkins-cli.jar -s
```



```
http://localhost:8080/ reload-configuration -  
Reload Jenkins configuration
```

```
266. java -jar jenkins-cli.jar -s  
http://localhost:8080/ install-plugin plugin-name  
- Install a plugin
```

```
267. java -jar jenkins-cli.jar -s  
http://localhost:8080/ list-plugins - List  
installed plugins
```

```
268. java -jar jenkins-cli.jar -s  
http://localhost:8080/ delete-plugin plugin-name  
- Delete a plugin
```

```
269. java -jar jenkins-cli.jar -s  
http://localhost:8080/ update-job job_name <  
config.xml - Update job configuration
```

```
270. java -jar jenkins-cli.jar -s  
http://localhost:8080/ build job_name -p  
PARAM=value - Trigger job with parameters
```

```
271. java -jar jenkins-cli.jar -s  
http://localhost:8080/ safe-exit - Gracefully  
stop Jenkins
```

```
272. java -jar jenkins-cli.jar -s  
http://localhost:8080/ disconnect-node node_name  
- Disconnect a node
```

```
273. java -jar jenkins-cli.jar -s  
    http://localhost:8080/ install-plugin plugin.hpi  
    - Install plugin from file
```

```
274. java -jar jenkins-cli.jar -s  
    http://localhost:8080/ get-view view_name -  
    Get view configuration
```

```
275. java -jar jenkins-cli.jar -s  
    http://localhost:8080/ create-view view_name <  
    config.xml - Create a new view
```

Ansible Commands

```
276. ansible --version - Check Ansible version
```

```
277. ansible all -m ping - Ping all hosts in the  
    inventory
```

```
278. ansible-playbook playbook.yml - Run a playbook
```

```
279. ansible-inventory --list - Show inventory
```

```
280. ansible all -a "uptime" - Run a command on all  
    hosts
```

```
281. ansible-playbook -i inventory.ini playbook.yml -  
    Specify inventory file
```

```
282. ansible-playbook -e "variable=value" playbook.yml
```



- Pass extra variables

283. `ansible-playbook --syntax-check playbook.yml` -
Check for syntax errors

284. `ansible-vault encrypt file.yml` - Encrypt afile

285. `ansible-vault decrypt file.yml` - Decrypt afile

286. `ansible-vault create secret.yml` - Create anew
encrypted file

287. `ansible all -m setup` - Gather system facts

288. `ansible all -m shell -a "df -h"` - Run shell
commands

289. `ansible all -m service -a "name=nginx
state=started"` - Manage services

290. `ansible all -m yum -a "name=httpd state=present"`
- Install packages

291. `ansible all -m copy -a "src=file.txt
dest=/tmp/file.txt"` - Copy files

292. `ansible all -m file -a "path=/tmp/test mode=0755
state=directory"` - Create a directory

293. `ansible-playbook -i inventory.yml site.yml --tags`



`web` - Run specific tags

294. `ansible-galaxy install role_name` - Install a role

295. `ansible-galaxy list` - List installed roles

296. `ansible-playbook -i inventory playbook.yml`
`--check` - Run in dry-run mode

297. `ansible-doc -l` - List all available Ansible modules

298. `ansible-playbook -i inventory playbook.yml`
`--start-at-task="task_name"` - Start playbook from a specific task

299. `ansible -i inventory -m ping all` - Ping all hosts

300. `ansible-galaxy init myrole` - Create a new Ansible role

AWS CLI Commands

301. `aws configure` - Configure AWS CLI credentials

302. `aws s3 ls` - List S3 buckets

303. `aws s3 cp file.txt s3://mybucket/` - Copy file to S3



304. `aws s3 sync . s3://mybucket/` - Sync local files to S3

305. `aws s3 rm s3://mybucket/file.txt` - Delete file from S3

306. `aws ec2 describe-instances` - List EC2 instances

307. `aws ec2 start-instances --instance-ids i-1234567890` - Start EC2 instance

308. `aws ec2 stop-instances --instance-ids i-1234567890` - Stop EC2 instance

309. `aws ec2 terminate-instances --instance-ids i-1234567890` - Terminate EC2 instance

310. `aws ec2 create-key-pair --key-name MyKeyPair` - Create a new key pair

311. `aws ec2 describe-volumes` - List EBS volumes

312. `aws ec2 create-volume --size 10 --region us-east-1` - Create an EBS volume

313. `aws ec2 attach-volume --volume-id vol-12345 --instance-id i-12345 --device /dev/sdf` - Attach volume

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- 314. `aws ec2 describe-security-groups` - List security groups
 - 315. `aws lambda list-functions` - List Lambda functions
 - 316. `aws lambda invoke --function-name my_lambda output.json` - Invoke a Lambda function
 - 317. `aws eks update-kubeconfig --name cluster_name` - Configure kubectl for EKS
 - 318. `aws rds describe-db-instances` - List RDS instances
 - 319. `aws rds stop-db-instance --db-instance-identifier mydb` - Stop RDS instance
 - 320. `aws rds start-db-instance --db-instance-identifier mydb` - Start RDS instance
 - 321. `aws ec2 create-snapshot --volume-id vol-12345` - Create EBS snapshot
 - 322. `aws ec2 describe-snapshots` - List EBS snapshots
 - 323. `aws cloudwatch describe-alarms` - List CloudWatch alarms
 - 324. `aws ssm send-command --document-name`

```
AWS-RunShellScript --targets
```

```
"Key=instanceIds,Values=i-12345" --parameters  
commands="df -h" - Run command on EC2
```

```
325. aws iam list-users - List IAM users
```

```
326. aws iam list-roles - List IAM roles
```

```
327. aws route53 list-hosted-zones - List Route 53  
hosted zones
```

```
328. aws route53 create-hosted-zone --name example.com  
- Create a Route 53 hosted zone
```

```
329. aws cloudformation list-stacks - List  
CloudFormation stacks
```

```
330. aws cloudformation create-stack --stack-name  
my-stack --template-body file://template.json -  
Create a stack
```

```
331. aws cloudformation delete-stack --stack-name  
my-stack - Delete a stack
```

```
332. aws ecr get-login-password --region us-east-1 |  
docker login --username AWS --password-stdin  
account_id.dkr.ecr.us-east-1.amazonaws.com -  
Login to ECR
```

-
- ```
333. aws ecr create-repository --repository-name
 myrepo - Create an ECR repository

334. aws ecr list-repositories - List ECR repositories

335. aws dynamodb list-tables - List DynamoDB tables

336. aws dynamodb describe-table --table-name mytable
 - Describe a DynamoDB table

337. aws dynamodb put-item --table-name mytable --item
 '{"id": {"S": "123"}, "name": {"S": "Test"}}' -
 Insert item into DynamoDB

338. aws sns list-topics - List SNS topics

339. aws sns publish --topic-arn
 arn:aws:sns:us-east-1:123456789012:MyTopic
 --message "Hello" - Send SNS message

340. aws sqs list-queues - List SQS queues

341. aws sqs send-message --queue-url
 https://sqs.us-east-1.amazonaws.com/123456789012/My
 Queue --message-body "Test message" - Send message
 to SQS

342. aws sqs receive-message --queue-url
 https://sqs.us-east-1.amazonaws.com/123456789012/My
 Queue - Receive SQS message
```



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343. `aws kms list-keys` - List KMS keys

344. `aws kms encrypt --key-id key-id --plaintext "Hello"` - Encrypt text using KMS

345. `aws kms decrypt --ciphertext-blob fileb://encrypted.txt` - Decrypt KMS ciphertext

346. `aws ec2 describe-key-pairs` - List EC2 key pairs

347. `aws ec2 delete-key-pair --key-name MyKeyPair` - Delete a key pair

348. `aws s3 mb s3://my-new-bucket` - Create a new S3 bucket

349. `aws s3 rb s3://my-new-bucket --force` - Delete an S3 bucket

350. `aws cloudfront list-distributions` - List CloudFront distributions

## Helm Commands

351. `helm version` - Check Helm version

352. `helm repo add stable https://charts.helm.sh/stable` - Add Helm repository

353. `helm repo update` - Update Helm repositories



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354. `helm search repo nginx` - Search for a Helm chart

355. `helm install myapp stable/nginx` - Install a Helm chart

356. `helm upgrade myapp stable/nginx` - Upgrade a Helm release

357. `helm rollback myapp 1` - Rollback release to a previous version

358. `helm uninstall myapp` - Uninstall a Helm release

359. `helm list` - List all installed Helm releases

360. `helm status myapp` - Show the status of a Helm release

361. `helm get values myapp` - Show values used in a Helm release

362. `helm get manifest myapp` - Show Kubernetes manifests of a release

363. `helm template myapp stable/nginx` - Render chart templates locally

364. `helm lint mychart/` - Validate Helm chart syntax

365. `helm package mychart/` - Package a Helm chart



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- 366. `helm repo remove stable` - Remove a Helm repository
  - 367. `helm dependency update mychart/` - Update chart dependencies
  - 368. `helm dependency build mychart/` - Build chart dependencies
  - 369. `helm history myapp` - Show the history of a Helm release
  - 370. `helm create mychart` - Create a new Helm chart
  - 371. `helm pull stable/nginx` - Download a chart
  - 372. `helm plugin list` - List installed Helm plugins
  - 373. `helm env` - Show Helm environment variables
  - 374. `helm show values stable/nginx` - Show default values of a chart
  - 375. `helm upgrade --install myapp stable/nginx` - Install or upgrade release

---

## Prometheus Commands

376. `prometheus --version` - Check Prometheus version

377. `promtool check config prometheus.yml` - Validate Prometheus configuration

378. `prometheus --config.file=prometheus.yml` - Start Prometheus

379. `prometheus --storage.tsdb.path=data/` - Define storage path

380. `prometheus --web.listen-address=:9090` - Start Prometheus on a specific port

381. `curl http://localhost:9090/api/v1/targets` - Check active Prometheus targets

382. `curl http://localhost:9090/api/v1/status/config` - Fetch Prometheus config

383. `curl http://localhost:9090/api/v1/query?query=up`  
- Run an instant query

384. `prometheus --query.lookback-delta=5m` - Adjust query range

385. `prometheus --storage.tsdb.retention.time=15d` -



---

Set data retention

386. `prometheus --web.enable-lifecycle` - Enable reload API

387. `curl -X POST http://localhost:9090/-/reload` - Reload configuration

388. `systemctl restart prometheus` - Restart Prometheus service

389. `journalctl -u prometheus --no-pager` - Check Prometheus logs

390. `promtool check rules rules.yml` - Validate recording rules

391. `prometheus --storage.tsdb.max-block-duration=2h` - Adjust block duration

392. `prometheus --storage.tsdb.no-lockfile` - Disable lockfile

393. `prometheus --enable-feature=remote-write-receiver` - Enable remote write

394. `prometheus --web.enable-admin-api` - Enable admin API



---

395. `promtool query instant http://localhost:9090 "up"`  
- Query using promtool

396. `promtool tsdb analyze data/` - Analyze TSDB  
database

397. `curl http://localhost:9090/api/v1/rules` - Show  
alerting rules

398. `prometheus --log.level=debug` - Start Prometheus  
with debug logs

399. `promtool check-metrics metrics.prom` - Validate  
metrics file

400. `prometheus --config.file=prometheus.yml`  
`--web.console.templates=console/` - Load custom web  
templates

## Grafana Commands

401. `grafana-server --version` - Check Grafana version

402. `systemctl start grafana-server` - Start Grafana  
service

403. `systemctl stop grafana-server` - Stop Grafana  
service

404. `systemctl restart grafana-server` - Restart



## Grafana

405. `systemctl status grafana-server` - Check Grafana status

406. `grafana-cli plugins list` - List installed plugins

407. `grafana-cli plugins install grafana-clock-panel` - Install a Grafana plugin

408. `grafana-cli plugins update-all` - Update all plugins

409. `grafana-cli admin reset-admin-password newpassword` - Reset admin password

410. `curl http://localhost:3000/api/health` - Check Grafana health

411. `curl -u admin:admin http://localhost:3000/api/dashboards/home` - Get home dashboard

412. `grafana-cli plugins remove plugin-name` - Remove a plugin

413. `grafana-cli admin reset-admin-password newpass` - Reset admin password



---

414. `grafana-server -config /etc/grafana/grafana.ini` -  
Start with custom config

415. `curl -X GET http://localhost:3000/api/dashboards`  
- List dashboards

416. `curl -X POST`  
`http://localhost:3000/api/dashboards/db -d`  
`'@dashboard.json'` - Create dashboard

417. `journalctl -u grafana-server --no-pager` - Check  
logs

418. `grafana-cli plugins install`  
`grafana-simple-json-datasource` - Install JSON data  
source

419. `grafana-cli plugins update` - Update Grafana  
plugins

420. `systemctl enable grafana-server` - Enable Grafana  
on startup

421. `grafana-cli plugins update-all` - Update all  
plugins

422. `grafana-cli server restart` - Restart Grafana

423. `grafana-cli admin reset-admin-password`



---

`mynewpassword` - Reset password

424. `curl http://localhost:3000/api/org` - Get organization details

425. `grafana-server --homepath /var/lib/grafana` - Run Grafana with a specific path

## ArgoCD Commands

426. `argocd version` - Show ArgoCD CLI version

427. `argocd login my-argocd.com` - Login to ArgoCD

428. `argocd app list` - List all ArgoCD applications

429. `argocd app get my-app` - Show details of an app

430. `argocd app sync my-app` - Sync an application

431. `argocd app delete my-app` - Delete an application

432. `argocd app rollback my-app 1` - Rollback an application

433. `argocd app history my-app` - Show deployment history

434. `argocd app create my-app --repo`



---

```
https://github.com/user/repo.git --path app -
Create an application
```

```
435. argocd app update my-app --sync-policy automated
- Enable auto-sync
```

```
436. argocd app set my-app --dest-server
https://k8s-cluster - Set destination server
```

```
437. argocd app unset my-app --dest-server - Unset
destination server
```

```
438. argocd repo list - List connected repositories
```

```
439. argocd repo add https://github.com/user/repo.git
- Add a repository
```

```
440. argocd cluster list - List managed clusters
```

```
441. argocd cluster add my-cluster - Add a new cluster
```

```
442. argocd login my-argocd.com --username admin
--password pass - Login with credentials
```

```
443. argocd app diff my-app - Show differences in
application
```

```
444. argocd proj list - List ArgoCD projects
```

```
445. argocd proj create my-project - Create a project
```



446. `argocd proj delete my-project` - Delete a project

447. `argocd settings list` - Show ArgoCD settings

448. `argocd account list` - List user accounts

449. `argocd logout` - Logout from ArgoCD

450. `argocd help` - Show help for ArgoCD CLI

## GitHub Actions

451. `gh workflow list` - List all GitHub Actions workflows

452. `gh workflow run my-workflow.yml` - Run a specific workflow

453. `gh run list` - List all workflow runs

454. `gh run view <run_id>` - View details of a workflow run

455. `gh run cancel <run_id>` - Cancel a running workflow

456. `gh run rerun <run_id>` - Rerun a failed workflow

457. `gh secret list` - List GitHub repository secrets



458. `gh secret set MY_SECRET --body "value"` - Set a secret in GitHub Actions

459. `gh variable list` - List environment variables in GitHub Actions

460. `gh variable set MY_VAR --body "value"` - Set an environment variable

## GitLab CI/CD

461. `gitlab-runner register` - Register a new GitLab runner

462. `gitlab-runner start` - Start GitLab Runner

463. `gitlab-runner stop` - Stop GitLab Runner

464. `gitlab-runner verify` - Verify if runners are properly registered

465. `gitlab-runner list` -List all registered runners

466. `gitlab-runner status`- Show GitLab Runner status

467. `gitlab-runner logs` -View logs for GitLab Runner

## CircleCI

468. `circleci config validate` - Validate CircleCI



---

## Configuration

469. `circleci local execute -c .circleci/config.yml` -  
Run pipeline locally

470. `circleci project list` - List all projects in  
CircleCI

471. `circleci setup` - Configure CircleCI for the first  
time

472. `circleci build` - Run a build locally

473. `circleci config process .circleci/config.yml` -  
Process CircleCI config

474. `circleci rerun <build_number>` - Rerun a specific  
build

475. `circleci admin namespace list` - List CircleCI  
namespaces

## Security & Compliance (Trivy, Vault, Falco)

### Trivy (Container Security Scanning)

476. `trivy image nginx:latest` - Scan a container image

477. `trivy filesystem /path/to/dir` - Scan a directory



478. `trivy repo https://github.com/user/repo` - Scan a Git repository

479. `trivy k8s cluster` - Scan a Kubernetes cluster

480. `trivy config .` - Scan IaC configurations

## Vault (Secrets Management)

481. `vault server -dev` - Start Vault in development mode

482. `vault kv put secret/mysecret key=value` - Store a secret

483. `vault kv get secret/mysecret` - Retrieve a secret

484. `vault kv delete secret/mysecret` - Delete a secret

485. `vault login <token>` - Authenticate with Vault

## Monitoring & Logging (Loki, ELK, Fluentd)

### Loki (Log Aggregation)

486. `loki -config.file=loki-config.yml` - Start Loki with config file

487. `curl -X GET`



---

```
http://localhost:3100/loki/api/v1/labels - Get
available labels
```

```
488. curl -X GET
 'http://localhost:3100/loki/api/v1/query?query={app
 ="nginx"}' - Query logs
```

## ELK Stack (Elasticsearch, Logstash, Kibana)

```
489. curl -X GET "localhost:9200/_cat/indices?v" -
List Elasticsearch indices
```

```
490. curl -X POST "localhost:9200/logs/_doc/" -H
 "Content-Type: application/json" -d
 '{"message": "hello world"}' - Insert a log
 entry
```

```
491. curl -X GET "localhost:9200/logs/_search" -
Search logs
```

```
492. systemctl start logstash - Start Logstash
```

```
493. systemctl restart kibana - Restart Kibana
```

## Fluentd (Log Forwarding)

```
494. fluentd --config fluentd.conf - Start Fluentd
with a specific config
```

```
495. fluentd --dry-run --config fluentd.conf -
Validate Fluentd config
```

---

## Final Set of Essential Commands

496. `htop` - Interactive process monitoring

497. `iftop` - Monitor network bandwidth usage

498. `iostat` - Monitor disk I/O usage

499. `nc -zv host 80` - Check if a port is open

500. `curl -I http://example.com` - Fetch HTTP headers

