DevOps Shack

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
- 5.1s -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

- 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

- 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 11='ls -lah' Create an alias
- 36. df -Th Show file system disk space
- 37. wc -1 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 -1 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



- 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

- 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
- 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

- 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

- 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

- 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

- 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
- 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



- 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

- 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 get all List all resources
- 194. kubectl get roles List roles
- 195. kubectl get rolebindings List role bindings
- 196. kubectl get clusterroles 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



- 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

- 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



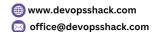
Jenkins CLI Commands

```
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</pre>
```

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 a file
- 285. ansible-vault decrypt file.yml Decrypt a file
- 286.ansible-vault create secret.yml Create a new 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 -1 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

- 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

- 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



- 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



- 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



- 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.argord 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.argood 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. argord 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.iotop - 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