

Cloud Ops Quick Cheat Sheet

Linux Essentials

- Check processes: ps aux | grep
 - Kill process: kill -9
 - Disk usage: df -h
 - Memory usage: free -m
 - Check logs: sudo journalctl -xe
 - Service control: sudo systemctl start|stop|status
 - Permissions: chmod 755 file / chown user:group file
 - Networking test: curl http://localhost
-

Networking Essentials

- CIDR example: 10.0.1.0/24 = 256 IPs
 - Public subnet = route to Internet Gateway
 - Private subnet = route to NAT
 - Security Group = stateful firewall
 - Port 22 = SSH, 80 = HTTP, 443 = HTTPS
 - Test ports: ss -tulnp
-

AWS CLI Patterns

- Describe resources: aws ec2 describe-instances
 - Create resource: aws ec2 run-instances ...
 - Delete resource: aws ec2 terminate-instances ...
 - Filter output: --query "..." --output table
 - Identity check: aws sts get-caller-identity
-

Lambda Mental Model

- Cold start = container initialization time
 - Warm start = reused container
 - Billing = execution time × memory
 - Memory controls CPU power
 - Stateless and event-driven
-

IAM Quick Rules

- Principle of Least Privilege
 - Roles > Access Keys
 - Never hardcode secrets
 - Policies attach to roles or users
 - Use sts get-caller-identity to verify context
-

Deployment Flow (Serverless)

- Write function code
- Define infrastructure (SAM / CloudFormation)
- Build → Deploy
- Test → Observe logs
- Clean up to avoid costs

Rule of Thumb: If you can explain the traffic flow and permission model, you understand the system.