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## DevOps Shack

# TOP 100 Most Commonly Asked Commands In MNC Interviews

### 1. Linux Commands

1. ls – List directory contents

```
ls -l
```

2. cd – Change directory

```
cd /home/user/Documents
```

3. pwd – Print working directory

```
Pwd
```

4. mkdir – Create a new directory  
arduino

```
mkdir new_folder
```

5. rm – Remove files or directories

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```
rm -rf directory_name
```

**6. cp – Copy files and directories**

```
cp file1.txt /destination/path
```

**7. mv – Move/rename files and directories**

```
mv file1.txt /destination/path
```

**8. cat – View the contents of a file**

```
cat file.txt
```

**9. grep – Search text using a pattern**  
lua

```
grep "error" log.txt
```

10. **find** – Search for files and directories  
arduino

```
find /home -name "*.txt"
```

## 2. Git Commands

11. **git init** – Initialize a new Git repository  
csharp

```
git init
```

12. **git clone** – Clone a repository

```
git clone https://github.com/user/repo.git
```

13. **git add** – Add files to the staging area  
csharp

```
git add file.txt
```



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14. **git commit – Commit changes**  
sql

```
git commit -m "Initial commit"
```

15. **git push – Push changes to remote repository**  
css

```
git push origin main
```

16. **git pull – Fetch and merge changes from remote**  
css

```
git pull origin main
```

17. **git branch – List, create, or delete branches**  
cpp

```
git branch new-branch
```

### 18. git checkout – Switch branches cpp

```
git checkout new-branch
```

### 19. git merge – Merge branches sql

```
git merge feature-branch
```

### 20. git log – Show commit history lua

```
git log --oneline
```

## 3. SQL Commands

### 21. SELECT – Retrieve data from a database sql

```
SELECT * FROM employees;
```



## 22. INSERT INTO – Insert new data into a table

pgsql

```
INSERT INTO employees (id, name, salary) VALUES  
(1, 'John', 5000);
```

## 23. UPDATE – Modify existing data

sql

```
UPDATE employees SET salary = 6000 WHERE id =  
1;
```

## 24. DELETE – Remove records

sql

```
DELETE FROM employees WHERE id = 1;
```

## 25. WHERE – Filter records

sql

```
SELECT * FROM employees WHERE salary > 5000;
```



## 26. ORDER BY – Sort query results

pgsql

```
SELECT * FROM employees ORDER BY salary DESC;
```

## 27. GROUP BY – Aggregate data

pgsql

```
SELECT department, COUNT(*) FROM employees  
GROUP BY department;
```

## 28. JOIN – Combine multiple tables

pgsql

```
SELECT employees.name, department.name  
FROM employees  
JOIN department ON employees.dept_id =  
department.id;
```

## 29. HAVING – Filter groups

pgsql



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```
SELECT department, COUNT(*) FROM employees  
GROUP BY department HAVING COUNT(*) > 5;
```

30. **LIMIT** – Restrict number of rows returned  
pgsql

```
SELECT * FROM employees LIMIT 10;
```

#### 4. Docker Commands

31. **docker run** – Run a container  
arduino

```
docker run -d nginx
```

32. **docker ps** – List running containers  
nginx

```
docker ps
```

33. **docker stop** – Stop a container  
Arduino



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```
docker stop container_id
```

**34. docker rm – Remove a container**

```
docker rm container_id
```

**35. docker images – List all Docker images**  
nginx

```
docker images
```

**36. docker build – Build a Docker image**  
nginx

```
docker build -t myimage .
```

**37. docker exec – Execute a command in a running container**

```
docker exec -it container_id
```



38. **docker logs** – View logs of a container  
nginx

**docker logs container\_id**

39. **docker network ls** – List networks

**docker network ls**

40. **docker-compose up** – Start services from a  
**docker-compose.yml**

**docker-compose up -d**

## 5. Kubernetes Commands

41. **kubectl get pods** – List all running pods  
arduino

**kubectl get pods**



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42. **kubectl describe pod** – Show details of a pod  
sql

```
kubectl describe pod pod_name
```

43. **kubectl logs** – View logs of a pod  
nginx

```
kubectl logs pod_name
```

44. **kubectl apply** – Apply configuration changes  
nginx

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

45. **kubectl delete pod** – Delete a pod  
cpp

```
kubectl delete pod pod_name
```

46. **kubectl exec** – Run commands in a pod



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```
kubectl exec -it pod_name -- /bin/
```

- 47. kubectl get services – List all services**  
arduino

```
kubectl get services
```

- 48. kubectl get deployments – List all deployments**  
arduino

```
kubectl get deployments
```

- 49. kubectl scale – Scale a deployment**  
lua

```
kubectl scale deployment myapp --replicas=3
```

- 50. kubectl rollout status – Check rollout status of a deployment**  
Lua

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```
kubectl rollout status deployment myapp
```

## 6. Python Commands

### 51. python --version – Check Python version

css

```
python --version
```

### 52. pip list – List installed Python packages

nginx

```
pip list
```

### 53. virtualenv venv – Create a virtual environment

nginx

```
virtualenv venv
```

### 54. source venv/bin/activate – Activate virtual environment (Linux/macOS)

```
source venv/bin/activate
```



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**55. venv\Scripts\activate – Activate virtual environment (Windows)**

**venv\Scripts\activate**

**56. python -m http.server 8000 – Start a simple HTTP server**  
**yaml**

**python -m http.server 8000**

**57. python -c "print('Hello World')"** – Run a single Python command  
**scss**

**python -c "print('Hello World')"**

**58. pip install package\_name – Install a Python package**  
**nginx**

**pip install requests**

**59. python script.py – Run a Python script**

nginx

`python script.py`

60. `pytest test_file.py` – Run tests using Pytest  
nginx

`pytest test_file.py`

## 7. Networking Commands

61. `ping` – Check network connectivity  
nginx

`ping google.com`

62. `tracert` – Display route packets take to a network host  
(Linux/macOS)  
nginx

`tracert google.com`

63. `tracert` – Display route packets take to a network host (Windows)  
Nginx



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```
tracert google.com
```

**64. netstat – Display network connections**  
nginx

```
netstat -an
```

**65. nslookup – Query DNS for a domain's IP**  
nginx

```
nslookup google.com
```

**66. dig – Perform DNS lookups (Linux/macOS)**  
nginx

```
dig google.com
```

**67. ip a – Show IP addresses (Linux)**  
css

```
ip a
```





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**68. ipconfig – Show network configuration (Windows)**

```
ipconfig /all
```

**69. nmap – Scan open ports on a network**  
css

```
nmap -p 22,80,443 google.com
```

**70. tcpdump – Capture network traffic**  
css

```
tcpdump -i eth0
```

**8. AWS Cloud Commands (AWS CLI)**

**71. aws configure – Configure AWS CLI**  
nginx

```
aws configure
```



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**72. aws s3 ls – List S3 buckets**

```
aws s3 ls
```

**73. aws s3 cp – Copy files to/from S3**

```
aws s3 cp file.txt s3://my-bucket/
```

**74. aws ec2 describe-instances – List EC2 instances**  
sql

```
aws ec2 describe-instances
```

**75. aws lambda list-functions – List AWS Lambda functions**  
python

```
aws lambda list-functions
```

**76. aws rds describe-db-instances – List RDS instances**



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sql

**aws rds describe-db-instances**

**77. aws dynamodb list-tables – List DynamoDB tables**  
nginx

**aws dynamodb list-tables**

**78. aws cloudwatch logs describe-log-groups – List CloudWatch logs**  
sql

**aws cloudwatch logs describe-log-groups**

**79. aws iam list-users – List IAM users**  
nginx

**aws iam list-users**

**80. aws eks list-clusters – List EKS clusters**  
Nginx

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```
aws eks list-clusters
```

## 9. Microsoft Azure CLI Commands

81. az login – Login to Azure  
nginx

```
az login
```

82. az account list – List available accounts  
nginx

```
az account list
```

83. az vm list – List Azure virtual machines  
css

```
az vm list --output table
```

84. az storage account list – List Azure storage accounts  
css

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**az storage account list --output table**

**85. az group list – List resource groups**

**css**

**az group list --output table**

**86. Naz aks list – List AKS clusters**

**css**

**az aks list --output table**

**87. az functionapp list – List Azure Function apps**

**css**

**az functionapp list --output table**

**88. az cosmosdb list – List Azure CosmosDB instances**

**css**

**az cosmosdb list --output table**

89. **az monitor log-profiles list** – List Azure monitoring logs  
lua

```
az monitor log-profiles list
```

90. **az ad user list** – List Azure Active Directory users  
css

```
az ad user list --output table
```

## 10. Miscellaneous DevOps & Scripting Commands

91. **chmod** – Change file permissions

```
chmod 755 script.sh
```

92. **chown** – Change file ownership  
sql

```
chown user:user file.txt
```

**93. tar – Archive files**  
nginx

```
tar -cvf archive.tar folder_name/
```

**94. unzip – Extract ZIP files**  
python

```
unzip archive.zip
```

**95. sed – Stream editor for modifying files**  
nginx

```
sed -i 's/old-text/new-text/g' file.txt
```

**96. awk – Process text files**  
nginx

```
awk '{print $1}' file.txt
```

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**97. curl – Make HTTP requests**  
nginx

```
curl -X GET https://example.com
```

**98. wget – Download files from the internet**  
nginx

```
wget https://example.com/file.zip
```

**99. rsync – Sync files between locations**

```
rsync -av source/ destination/
```

**100. nohup – Run a command in the background**  
`nohup python script.py &`