

1.write a shell script to check whether output.logs is present or not if present modify all the places where autoinstall is there with Neetin and print the file name which has jar in file name

```
# output.logs
```

```
# drwxr-x--- 2 autoinstall kodiakgroup    4096 Nov 25 13:39 temp
# -rwx----- 1 autoinstall kodiakgroup    48942 Nov 25 16:45 GGTools.jar
# -rwx----- 1 autoinstall kodiakgroup    1710 Nov 25 16:45 GGServiceTools.jar
# -rwx----- 1 autoinstall kodiakgroup 206638915 Nov 27 13:41 kidm.jar
```

```
# Expected output 1:
```

```
# drwxr-x--- 2 Neetin kodiakgroup    4096 Nov 25 13:39 temp
# -rwx----- 1 Neetin kodiakgroup    48942 Nov 25 16:45 GGTools.jar
# -rwx----- 1 Neetin kodiakgroup    1710 Nov 25 16:45 GGServiceTools.jar
# -rwx----- 1 Neetin kodiakgroup 206638915 Nov 27 13:41 kidm.jar
```

```
# Output 2:
```

```
# GGTools.jar
# GGServiceTools.jar
# kidm.jar
```

```
#!/bin/bash
```

```
# Check if output.logs file is present
```

```
if [ -f "output.logs" ]; then
```

```
    # Replace "autoinstall" with "Neetin" in all places and save the modified content
    sed -i 's/autoinstall/Neetin/g' output.logs
```

```
    # Print the modified content
```

```
    cat output.logs
```

```
    # Print the file names with "jar" in the name
```

```
    jar_files=$(grep -E '\.jar$' output.logs | awk '{print $NF}')
```

```
    echo "Output 2:"
```

```
    echo "$jar_files"
```

```
else
```

```
    echo "output.logs file not found."
```

```
fi
```

2. write a dockerfile which use rhel8 image, copy app.tgz /app, copy useinput file to /home, copy rpm_repo to /etc/yum.repos.d, install httpd rpm, unzip app.tgz file, create a soft link index.html to /app/source/index.html and start the httpd service

FROM scratch

COPY app.tgz userinput rpm_repo /tmp

RUN mv /tmp/app.tgz /app && mv /tmp/userinput /home && mv /tmp/rpm_repo.repo /etc/yum.repos.d/

RUN yum install -y httpd

RUN tar -xzf /app/app.tgz -C /app

RUN ln -s /app/source/index.html /var/www/html/index.html

CMD ["httpd", "D", "FOREGROUND"]

3. In Docker maximum how many layers it works(127)
4. Difference between deployment and statefulset in k8s.
5. When you delete pod in statefulset which pod will get delete first (in reverse order the one if 5 pods(0-4) then 4 then pod will delete first)
6. In apache where index.html file will store(/var/www/html/index.html)
7. Difference between CMD and entry point in docker file
8. Write a docker file for creating image from scratch
9. Difference between continuous deployment/continuous delivery
10. Where we attach routing table in AWS
11. How to transfer data from one vpn to another vpn
12. What is vpn endpoint
13. Explain your ci/cd process
14. Write a simple docker file and explain

```
FROM nginx:latest
COPY nginx.conf /etc/nginx/nginx.conf
COPY .html /usr/share/nginx/html
EXPOSE 80
CMD ["nginx", "-g", "daemon off"]
```

15. How to you restrict pods not to talk each other in k8s(Network policy)
16. What are the services in k8s
17. What artifactory you are using (Jfrog)
18. About terraform modules
19. Ansible playbook
20. How to you make sure your infra is highly available
21. Explain monitoring setup for your current company
22. What your day to day activities on k8s
23. What is Kubernetes Service Mesh
24. In AWS EC2 what is instance store

An instance store provides temporary block-level storage for your instance. This storage is located on disks that are physically attached to the host computer. Instance store is ideal for temporary storage of information that changes frequently, such as buffers, caches, scratch data, and other temporary content.

25. Write a Python code to hit the api and get the data

```
import requests
```

```
response = requests.get("https://jsonplaceholder.typicode.com/posts/1")
```

```
if response.status_code == 200:
    print("Api works")
    data = response.json()
    print(data)
elif response.status_code == 404:
    print("URL not reachable")
else:
```

26. Write Terraform code to create s3 bucket
27. What is terraform private registry
28. Python code to reverse string
29. Python code find factorial of number
30. Not able to create file in linux , what are might be the reason
31. What are vpc end points
32. Your state file got corrupted now how you you recover
33. In terraform how to define string of list, map string of variable

#List of Variables:

```
variable "example" {
  type = list(string)
  default = [ "iteam", "item2", "item3" ]
}
```

#Map of Variables:

```
variable "example2" {
  type = map(string)
  default = {
    "key1" = "value1"
    "key2" = "value2"
    "key3" = "value3"
  }
}
```

34. Difference between site to site and point to site vpc

35. How to create cron job in k8s

36. What is data block in terraform

37. Node affinity , pod affinity in k8s

38. How authentication happens in k8s

39. Probes in k8s

40. Vpc end points (gates, interface)

41. How ssl works

42. Difference between log metrics and logs

43. Difference between encryption and encode

(Encoding transforms data into another format using a scheme that is publicly available so that it can easily be reversed.

Encryption transforms data into another format in such a way that only specific individual(s) can reverse the transformation)

44. K8s architecture

45. What are helm charts

46. Difference between deployment and stateful set (with real time example)

47. Out of 5 pod one pod is consuming more memory how to debug this

48. Docker can we override entry point command

49. In docker container resource limits we set from where it comes (Linux cgroup)

50. Have ran docker container with sleep of 600sec , I can login to container on other terminal with same tty ?

51. Difference between application and network load balancer (with real time example)

52. My jar is corrupted is auto scaling forward request to unhealthy ec2 ? (Yes)

53. What is difference between groups and role in AWS IAM

54. How to identify if subnet is public or private

55. What are sticky nits in linux

56. When you run free -h , what is cache and buffer memory

57. Difference between load average and cpu utilisation

58. Where do you attach vpc endpoint (subnet level)

59. What is fargate in AWS

60. Difference between load average and cpu utilisation

61. What is Left shift (starting security from initial infra setup only)

62. Write terraform code for create ec2 instance in AWS

63. Explain 3 tier architecture

64. Write Jenkins pipeline

65. Some terraform commands (fmt , init , apply , plan)

66.Difference between security groups and NACL
 67.When to use what kind of load balancer
 68.How ingress works in k8s
 69.How to you configure jfrog in Jenkins
 70.How to you configure web hook in GitHub
 71.What is vpc sharing in AWS
 72.In terraform what are provisioner
 73.In Jenkins pipeline how do you define particular agent
 74.How to scale pod (Horizontal scaling of pods)
 75.In terraform write a code for particular subnet to create on particular vpc
 76.K8s architecture
 77.K8s pod monitoring (Dynatrace,New Relic)
 78.What is git cherry pic (Cherry-picking in Git means choosing a commit from one branch and applying it to another)
 79.In terraform how do you get ip address of vms(terraform output/variables)
 80.Difference between virtualisation and container
 81.When you use virtualisation over container
 82.What is docker image
 83.what is main advantages of using docker compose(Its provides network)
 84.What are s3 classes , and are use of them
 85.IAM(user,role,group,policy)
 86.Difference between git reset and git reload
 87.In my vm I have many Neetin.txt file find all the files and rename to Neetin.py
 88.In terraform some one from my team wants to change ec2 type, but I dont want to do that so how to restrict changing this via terraform

```
lifecycle {
    prevent_destroy = true
}
```

89.My current pvc is 2Gb I want to make it 10GB is it possible (No PVC are immutable)
 90.Ingress which service are used
 91.What are lifecycle in terraform (create_before_destory , ignore changes)
 92.What is azure site recovery
 93.In k8s can deployment have PVC > yes
 94.Internal load balancer have public ip address (No)
 95.Ansible have 5 tasks , now 2 task files still my 3,4,5 tasks has to run how to do it (using ignore_error)
 96.In aws in single vpc how many subnet we can create(200)
 97.What is ansible force handler
 98.What is NIC card
 99.Python code check mobile number and email valid or not

```
import re
```

```
def valide(number):
    pattern = r'^\+?[1-9]\d{1,14}$'
    regex = re.compile(pattern)
    print(regex)
```

```
if regex.match(number):
    return True
else:
    return False
```

```
# Test the function
number1 = "+1234567890"
number2 = "1234567890"
```

```
number3 = "+91-1234567890"  
number4 = "123"
```

```
print(valide(number1))  
print(valide(number2))  
print(valide(number3))  
print(valide(number4))
```

100.What are difference module you used in python
101.What are difference module you used in Ansible
102.Difference between list and tuple
103.What is directory in python
104.In linux where memory is info stored (cat /proc/meminfo)
105.How to run shell script in debug mode (./test.sh -x)
106.What are variable in shell script (system defined, user defined)
107.In python what are data types (Integer,boolen,string,float)
108.What is SSI termination
109.What are disadvantages of K8s
110.Every time when I reboot my system I want to run some script , how to we can achieve this
Create your script(myscript.sh)
Make the script executable(chmod +x myscript.sh)
Create a systemd service unit file(sudo nano /etc/systemd/system/myscript.service)
Add the following content to the myscript.service file

```
[Unit]  
Description=My Script Service  
After=network.target
```

```
[Service]  
ExecStart=/path/to/myscript.sh
```

```
[Install]  
WantedBy=default.target
```

```
sudo systemctl daemon-reload  
sudo systemctl enable myscript.service
```

111.What is NAT
112.Difference between process and thread
113.Difference between Image and container
114.Diff between git reset and git revert
115.What are branching strategies
116.K8s what is headless service
117.What are special permission in linux(<https://www.scaler.com/topics/special-permissions-in-linux/>)
118.In Terraform what are data sources
119.Jenkins shared library
120.Write any shell script which you written in your company
121.Write any terraform module
122.In linux when you do df -h have space , when I try to create file its says no space left , what might be resign
Inode Usage: The issue might not be related to actual disk space but to the number of available inodes. Inodes are data structures on a filesystem that store metadata about files and directories. If your filesystem is running out of inodes, even though there is still plenty of disk space, processes may fail due to the inability to create new files or directories

123. Write a Python code open a file from that file only print the number

```
import re
```

```
def extract_numbers(input_string):  
    return re.findall(r'\d+', input_string)
```

```
# Test the function with sample input strings
```

```
input_strings = [  
    "neetin1234test",  
    "12testrahul",  
    "ram8976"  
]
```

```
for string in input_strings:  
    numbers = extract_numbers(string)  
    print("Numbers in '{}' are: {}".format(string, numbers))
```

124. Write a terraform code create 15 EC2 Vms with different names (use count and count index)

125. In Jenkins pipeline stage 3 is failed still it has to run next stages (stage 4, 5, 6 so on...) how to achieve this

```
stage('Stage 3') {  
    steps {  
        // Define Stage 3 steps  
        // If Stage 3 fails, mark it as unstable  
        catchError(buildResult: 'UNSTABLE') {  
            // Command or steps that may fail  
        }  
    }  
}
```

In the stage('Stage 3'), the catchError block is used to catch any errors that occur during the execution of the stage. If an error occurs, the stage result will be marked as UNSTABLE instead of FAILED, allowing subsequent stages to continue execution

126. What is headless service in k8s

127. What is node port range

128. What are different Gateways you worked in AWS

129. Explain service mesh implementation in k8s

130. What are meta variables in terraform

131. What is the use of out.tf file in terraform

132. What is daemonsets