



DEVOPS

SCENARIO-BASED INTERVIEW QUESTIONS



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Question:

- Write a Terraform script to create an S3 bucket that changes its name based on the environment (dev, staging, prod).

Logic:

- Tests Terraform variable usage, dynamic resource naming, and conditional logic.

```
hcl

variable "environment" {
  type    = string
  default = "dev"
}

resource "aws_s3_bucket" "bucket" {
  bucket = "myapp-${var.environment}-s3"
  acl    = "private"

  tags = {
    Name          = "MyApp S3"
    Environment   = var.environment
  }
}
```

Common Mistakes:

- Hardcoding bucket names instead of making them dynamic.
- Forgetting to apply unique names for globally unique resources.

Question:

- Write an Ansible playbook that installs Docker, starts the service, and runs an Nginx container.

Logic:

- Tests Ansible automation, Docker deployment, and playbook idempotency.

yaml

```
- name: Install and Run Docker
  hosts: all
  become: true
  tasks:
    - name: Install Docker
      apt:
        name: docker.io
        state: present
        update_cache: yes

    - name: Start Docker Service
      service:
        name: docker
        state: started
        enabled: true

    - name: Run Nginx Container
      docker_container:
        name: nginx
        image: nginx:latest
        state: started
        ports:
          - "80:80"
```

Common Mistakes:

- Forgetting to update apt cache before installing Docker.
- Not enabling the Docker service for restarts.

Question:

- Write a Terraform script to deploy an AWS EKS cluster with 3 worker nodes.

Logic:

- Tests Infrastructure as Code (IaC), AWS EKS provisioning, and cluster automation.

hcl

```
provider "aws" {
  region = "us-east-1"
}

resource "aws_eks_cluster" "eks_cluster" {
  name      = "my-eks-cluster"
  role_arn = aws_iam_role.eks_role.arn

  vpc_config {
    subnet_ids = aws_subnet.public[*].id
  }
}

resource "aws_eks_node_group" "eks_nodes" {
  cluster_name = aws_eks_cluster.eks_cluster.name
  node_role_arn = aws_iam_role.node_role.arn
  subnet_ids    = aws_subnet.public[*].id
  instance_types = ["t3.medium"]
  scaling_config {
    desired_size = 3
    min_size     = 1
    max_size     = 5
  }
}
```

Common Mistakes:

- Forgetting to attach IAM roles for worker nodes.
- Not specifying subnets, causing deployment failures.

Question:

- Write an Ansible playbook to create a Linux user, add them to sudoers, and configure SSH key-based authentication.

Logic:

- Tests user management, SSH security, and automation with Ansible.

yaml



```
- name: Configure SSH User
  hosts: all
  become: true
  tasks:
    - name: Create user
      user:
        name: devopsuser
        groups: sudo
        shell: /bin/bash

    - name: Set authorized SSH key
      authorized_key:
        user: devopsuser
        key: "{{ lookup('file', 'devopsuser.pub') }}"
        state: present
```

Common Mistakes:


- Forgetting to copy SSH keys to the right location.
- Not setting correct permissions for ~/.ssh/authorized_keys.

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