**Linux in AWS Context**

1. **How do you prepare a Linux instance to connect with an AWS EC2 instance?**
   * Mention generating and using an SSH key pair, configuring the security group, and using ssh.
2. **How do you debug SSH connection issues when accessing an EC2 instance?**
   * Discuss common issues like key mismatches, incorrect security group rules, and user permissions.
3. **What is the purpose of the EC2 User Data script, and how can it be used in Linux?**
   * Explain how to initialize and configure instances during boot with #!/bin/bash scripts.
4. **What is the difference between AMI (Amazon Machine Image) and a snapshot? How do you create a custom AMI using a Linux instance?**
5. **How can you use Linux commands to automate the mounting of EBS volumes?**
   * Include commands like lsblk, mkfs, mount, and editing /etc/fstab.

**AWS CLI**

1. **How do you use the AWS CLI to perform basic EC2 instance management tasks?**
   * Examples: Launch, stop, terminate, or describe instances using commands like aws ec2 run-instances and aws ec2 describe-instances.
2. **Explain how to copy files from your local machine to an S3 bucket using the AWS CLI and Linux.**
   * Command: aws s3 cp or aws s3 sync.

**Networking**

1. **How do you troubleshoot and configure network connectivity for a Linux instance in AWS?**
   * Discuss VPC, security groups, NACLs, and Linux commands like ping, curl, or traceroute.

**Security**

1. **How do you secure sensitive information, such as access keys, on a Linux instance?**
   * Mention IAM roles, environment variables, or AWS Secrets Manager.

**Automation**

1. **How do you write a bash script to automate the deployment of EC2 instances with specific configurations?**
   * Include examples of using the AWS CLI or SDKs to provision resources.