

@devopschallengehub



Misc questions on EC2

Trouble shooting

- **How do you troubleshoot boot issues in EC2?**
- Check instance status checks in AWS console.
- Review system logs via EC2 console (Actions > Monitor and troubleshoot > Get system log).
- Enable EC2 Serial Console access for deeper diagnostics.
- Use EC2 Rescue tool for automated troubleshooting.
- Consider boot volume issues - check EBS status.
- Try stopping/starting the instance (not just rebooting).
- Check security groups and NACLs for connectivity issues.
- Verify instance has appropriate IAM roles and permissions.
- Review memory pressure and CPU utilization metrics.
- Check for exhausted file descriptors or storage space.
- Examine cloud-init logs for initialization failures.

- Consider restoring from a recent AMI or snapshot.
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 - **You launched an EC2 instance but cannot SSH into it. What steps will you take?**
 - A: Check:
 - Security group allows inbound SSH (port 22)
 - Correct key pair used
 - Correct username
 - Public IP assigned
 - Network ACLs or route tables are correct.
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4. Cost Optimization

- **Can you explain a use case where Spot instances helped reduce cost?**
 - A: Running batch jobs or non-critical workloads (like big data processing) using Spot instances reduces compute cost by up to 90%.
- **Which AWS console feature provides access to boot logs when an EC2 instance won't start?**
 - A) CloudWatch Logs
 - B) EC2 System Log
 - C) CloudTrail
 - D) AWS X-Ray
 - **Answer: B) EC2 System Log**

What tool does AWS provide specifically for troubleshooting and repairing EC2 instances?

- A) AWS CloudFormation
- B) AWS Systems Manager
- C) AWS EC2 Rescue
- D) AWS Trusted Advisor
- **Answer: C) AWS EC2 Rescue**

Which action can help when an EC2 instance is unreachable but running?

- A) Update the AMI

- B) Verify security group rules
- C) Increase instance size
- D) Change the availability zone
- **Answer: B) Verify security group rules**