**AWS CLOUD DEPLOYMENT FOR MOVIE APP:**

How you do end to end testing on cloud?

I used Cypress for end-to-end testing. For that first I typically set up my AWS environment with necessary configurations and dependencies, then I install and run Cypress within that environment. We can use AWS Code Build or AWS Pipeline to automate the execution of Cypress tests within the AWS ecosystem.

How you do log management?

Log management is **the process of dealing with log events generated by instances, applications, and AWS services**. This feature defines how AMS processes, stores, and rotates the log events generated in your managed AWS account. Infrastructure logs are used during incident resolution and to support system audits.

 I used Amazon CloudWatch Logs for Log Management. Amazon CloudWatch Logs **lets you monitor and troubleshoot your systems and applications using your existing system, application and custom log files**. With CloudWatch Logs, you can monitor your logs, in near real time, for specific phrases, values or patterns.

How you take care of security of your application?

I used IAM for improve the security of my application. AWS Identity and Access Management (IAM) **enables you to securely control access to AWS services and resources for your AWS users, groups, and roles**. Using IAM, you can create and manage fine-grained access controls with permissions, specify who can access which services and resources, and under which conditions.

Health:

AWS Health provides ongoing visibility into your resource performance and the availability of your AWS services and accounts. You can use AWS Health events to learn how service and resource changes might affect your applications running on AWS. AWS Health provides relevant and timely information to help you manage events in progress. AWS Health also helps you be aware of and to prepare for planned activities. The service delivers alerts and notifications triggered by changes in the health of AWS resources, so that you get near-instant event visibility and guidance to help accelerate troubleshooting.

To check the health of the application we can use ELB (Elastic Load Balancing), AWS CloudWatch Alarms, Aws Auto scaling health checks etc...

I used CloudWatch to check Enhanced health. The health of my application status is “OK”.