

### GIVE YOUR APPLICATION AUTO-DEPLOY SUPERPOWERS

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# Explain the fundamentals and benefits of CI/CD to achieve, build, and deploy automation for cloud-based software products.

☐ Reduce technical debt: we may not be able to eliminate technical debt, but a CI/CD pipeline will help reduce it as much as possible. Thus, reducing cost and protecting revenue. ☐ Faster Time to Market: CI/CD will expedite value delivery. Hence, we can onboard more clients and projects without compromising quality. This will increase our revenue and improve our market grip.
$\Box$ Automated testing will ensure and enforce code quality and security thus reducing cost, protecting revenue, and increasing revenue.
$\Box$ Catching vulnerabilities early will protect the company from embarrassing conditions, thus, protecting revenue and avoiding unnecessary expenses.

# Explain the fundamentals and benefits of CI/CD to achieve, build, and deploy automation for cloud-based software products (Suite).

$\square$ Continuous monitoring will help to reduce the Mean Time to Resolution of issues. Happier clients translate to repeat clients and more revenue for the company.
$\Box$ Adopting CI/CD practices will also help bring otherwise siloed members of staff together. The more collaborative the team can be, the better the products that they will produce.
$\Box$ This translates to a good working condition which would help to attract the best talents in the industry. Thus, improving the quality of the team and the products that they develop.
☐ Automated clean-up would help to leverage the available and relatively unlimited cloud computing resources, thus reducing cost, avoiding cost, and improving revenue.

#### Compute and Networking



Auto Scaling



AWS Direct Connect



EC2



EC2 AMI EC2 Cloudwatch







EC2 instances





Balancing

Elastic Network Inteface

**EMR** 

**EMR Cluster** 



EMR HDFS Cluster



Route 53

Hosted Zone

Route 53

Route Table



EC2 DB on

instance

VPC Customer

Gateway



Gateway

EC2 instance



VPC Router

VPC VPN Connection



VPC VPN Gateway

#### Database-



RDS DB

Instance

DynamoDB DynamoDB Attribute



RDS Instance Read Replica



Attributes

Standby



RDS Instance RDS MS SQL Instance



MS SQL

M

DynamoDB DynamoDB Item



RDS MySQL DB Instance



DynamoDB Table



**RDS Oracle** 

DB Instance





ElasticCache







ElasticCache Node





On-Demand Workforce



Mechanical Turk Workers



Mechanical Turk



Mechanical Turk Assignment Task



Mechanical

Mechanical Turk Human Intelligence Tasks

#### -Deployment and Management-



Stack





Template









Alarm





Beanstalk





Application





Beanstalk

Deployment









### Conclusion Cloud DevOps is the Future.