

Assignment Project Exam Help

Cloud Computing and Data Science Topics

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1. Platform-independent Microservices

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2. DevOps

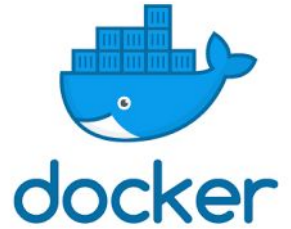
3. Infrastructure

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4. Data Science as Code

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Microservices using Docker



- What is Docker?
 - Software platform that allows you to build, test, and deploy applications. The code, unit called container, which is already deployed at scale
 - Think of it as Open Source Lambda functions

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Docker Containers

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Why Docker?

- All the benefits of microservices PLUS
- Platform-independent
 - You can port your applications to any cloud providers or accounts with Docker provider-specific services
- Widespread developer support

Docker on AWS

- The painful way
 - Run and manage your own Docker "swarm" on EC2
 - A cluster of EC2 instances is required to run across multiple availability zones
- The easy way
 - Use Elastic Container Service (ECS), a highly-scalable, managed Docker container service from AWS

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ECS Architecture

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ECS Example

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Recap:

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1. You can use <https://eduassistpro.github.io/> in microservices, which you can
2. You can use ECS to run your containers at scale.

1. Platform-independent Microservices

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What is DevOps?

“DevOps is a set of practices that automates the processes between software development and operations, in order that they can **build, test, and release software faster and more reliably.**” -- Atlassian

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Why do you need it?

- All the benefits of microservices PLUS
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 - You can port your applications to any cloud providers or accounts with provider-specific services
- Widespread developer support

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Recap:

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1. DevOps is a set of practices that enables you to build, test, and

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2. On AWS you can use Code Build, Code Pipeline, and Code Deploy to automate your code builds and deployments.

1. Platform-independent Microservices

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Automating DevOps

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deploy
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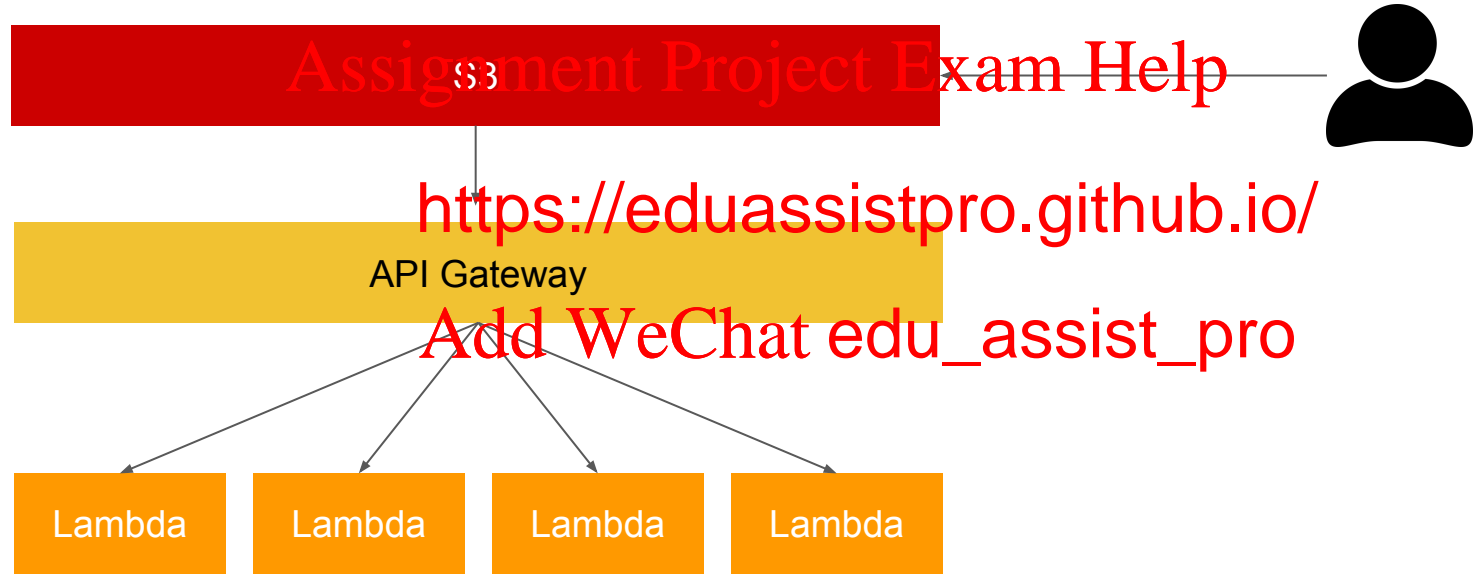
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What

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Serverless Website Infrastructure



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As your infrastructure gets more
maturing its complex,
deployment is.

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AWS CloudFormation

- “Infrastructure as Code”
- Infrastructure, configuration, and security all encoded in config files call <https://eduassistpro.github.io/>
- Reproducible infrastructure s liably
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AWS CloudFormation



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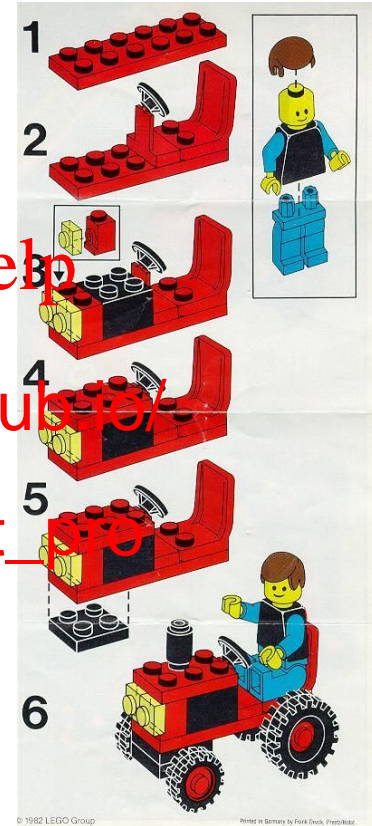
AWS CloudFormation

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CloudF
Template



AWS CloudFormation



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Recap:

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1. Automating in
to represent infrastructure

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2. You can use CloudFormation to automate your entire infrastructure.

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Thank you!

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Sources:

1. <https://aws.amazon.com/codebuild/>
2. <https://aws.amazon.com/codepipeline/>
3. <https://aws.amazon.co>
4. <https://www.slideshare.net/presentation-slides>
5. <https://www.slideshare.net/AmazonWebServices>
6. <https://aws-de-media.s3.amazonaws.com/image>
7. <https://github.com/ndrppnc/serverless-cicd>
8. <https://github.com/alik0211/pokedex>

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