2019-11-12 and 2019-11-13 AWS Training

Containers in AWS - ECS, EKS

- Date: Tuesday Nov. 12, 2019
- Location: Stone Classroom, Mann Library (https://mannlib.cornell.edu/use/spaces/all/stone-classroom)
- Cost: $0
- Register: https://cornell.qualtrics.com/jfe/form/SV_dckdOaEJO9fWYkd
- Bring:
    - Your own laptop might be easier to use, but there are also workstations in the training room.
    - Your own lunch/snacks
- Limit: 27 students
- Zoom/Remote Option: No
- CIT Hosts: Ned B. La Celle, Sean D. Walsh
- AWS SA : Anel Perez

Agenda

Time	Topic	Description
9:00 AM – 9:15 AM	Welcome and Introductions	
9:15 AM – 10:00 AM	Module 1: Introduction to Containers	This module is focused on introducing what are containers, their benefits and the services offered by AWS for Containers.
10:00 AM – 10:30 AM	Module 2: Amazon ECS Lab	In this lab, participants will deploy a Cluster in ECS and deploy a basic web application
10:30 AM – 10:45 AM	Break	
10:45 AM – 11:15 AM	Module 3: Containers Deep Dive	This module will focus on the different configuration options that are available with ECS\EKS (e.g. networking modes, placement groups, running services).
11:15 AM – 12:00 PM	Module 4: Amazon ECS + ECR Deep Dive Lab	Within this lab, participants will create their own image and store it within ECR. Also, provision ECS instances and define various parameters within their cluster.
12:00 PM – 1:00 PM	Lunch	
1:00 PM – 1:30 PM	Module 5: CI/CD and DevOps Practices on AWS	The focus will be to provide an overview of CI/CD pipelines and the services that AWS offers for them. There will also be an overview of DevOps principles and how to approach them on AWS.
1:30 PM – 2:00 PM	Q+A, Close Out	

Materials

- Module 2 - Getting Started with Docker and ECR Lab.docx
- Module 4 - Getting Started with ECS.docx
- BOX Folder with Slides : https://cornell.box.com/v/AWS-ECS-EKS-TrainingSlides

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CU_TRAINING AWS account has been cleaned up (2019-11-13) of any ECS ECR lab related recources (VPCs, Clusters, Loadbalancers, Instances, IAM Roles) - NL85

AI/ML Services in AWS

- Date: Wednesday Nov. 13, 2019
- Location: Stone Classroom, Mann Library (https://mannlib.cornell.edu/use/spaces/all/stone-classroom)
- Cost: $0
- Register: https://cornell.qualtrics.com/jfe/form/SV_dckdOaEJO9fWYkd
- Bring:
  - Your own laptop might be easier to use, but there are also workstations in the training room.
  - Your own lunch/snacks
- Limit: 27 students
- Zoom/Remote Option: No
- CIT Host: Marty J. Sullivan

Agenda

Time	Topic	Description
9:00 AM – 9:15 AM	Welcome and Introductions	
9:15 AM – 10:00 AM	Module 1: Introduction to AI\ML Services in AWS	The goal of this module is to provide an overview and introduction to AI\Ml services that are currently offered by AWS.
10:00 AM – 11:00 AM	Module 2: Amazon Lex Lab	Within this lab, participants will have the opportunity to create a Chatbot leveraging Amazon Lex.
11:00 AM – 11:15 AM	Break	
11:15 AM – 12:00 AM	Module 3: Deep Dive into Amazon Rekognition + Demo	We will be review the Amazon Rekognition service in greater detail and demonstrating a demo leveraging AWS DeepLens.
12:00PM – 1:00 PM	Lunch	
1:00 PM – 1:30 PM	Module 4: Deep Dive into Amazon SageMaker	In this module, we will be diving deeper into what is Amazon SageMaker and potential use cases for it.
1:30 PM – 2:00 PM	Module 5: Amazon SageMaker Lab	Within this lab, participants will create a Jupyter Notebook leveraging Amazon SageMaker and build a recommendation engine.

Materials

- Amazon Lex Lab: Module 2 - Lex Chatbot Lab.docx
- SageMaker Lab: https://aws.amazon.com/getting-started/tutorials/build-train-deploy-machine-learning-model-sagemaker/?trk=gs_card
- Presentation: https://cornell.box.com/s/l2ywhmln14h36b6qzkbvam1n8xveg2oq