

STUDENT VERSION (DevOps-Week-7)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Questions
- ▶ Interview/Certification Questions
- ▶ Coding Challenge
- ▶ Article of the week
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

5m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, AWS, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Team work

10m

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Ask Questions

15m

1. Which command is used to download roles from the Galaxy server.(Ansible)

- A. ansible-playbook
- B. ansible-vault
- C. ansible-galaxy
- D. ansible-inventory

2. _____ encrypts variables and files so you can protect sensitive content such as passwords or keys rather than leaving it visible as plaintext in playbooks or roles. (Ansible)

- A. Ansible Galaxy
- B. Ansible Playbook
- C. Ansible Ad-Hoc
- D. Ansible Vault

3. What will be happen after runing this command?

```
---  
- name: Apache installation for ubuntu servers  
  hosts: ubuntu servers  
  tasks:  
    - name: install the latest version of Apache  
      yum:  
        name: apache2  
        state: latest
```

- A. Installs latest version of Apache to all ubuntu servers
- B. Installs latest version of Apache to all ubuntu servers and enables it
- C. Installs Apache to all ubuntu servers and starts it
- D. Gives Error**

4. What kind of a repository do you need if you to connect to other repositories in order to obtain different binaries? (Nexus)

- A. Proxy**
- B. Hosted
- C. General
- D. Dynamic

5. What is the main difference between an artifact repository manager and a version control system? (Nexus)

- A. You store what you develop in a version control system and what you build in an artifact repository**
- B. Artifact repository can only be used by 1 person whereas version control systems are for teams
- C. Artifact repositories give more memory for less price.
- D. Version control systems are slower to obtain the code.

Interview/Certification Questions

20m

1. What is Ansible and what makes it stand out from the rest of the Configuration Management tools?

2. What is Ansible Galaxy?

3. You own a MySQL RDS instance in AWS Region us-east-1. The instance has a Multi-AZ instance in another availability zone for high availability. As business grows, there are more and more clients coming from Europe (eu-west-2) and most of the database workload is read-only. What is the proper way to reduce the load on the source RDS instance?

- A.** Create a snapshot of the instance and launch a new instance in eu-west-2.
- B.** Promote the Multi-AZ instance to be a Read Replica and move the instance to eu-west-2 region.
- C.** Configure a read-only Multi-AZ instance in eu-west-2 as Read Replicas cannot span across regions.
- D.** Create a Read Replica in the AWS Region eu-west-2.

4. You work for a big company having multiple applications that are very different from each other. These applications are built using different programming languages. How could you deploy these applications as quickly as possible?

- A.** Develop all the apps in a single Docker container and deploy using Elastic Beanstalk.
- B.** Create a Lambda function deployment package consisting of code and any dependencies.
- C.** Develop each app in a separate Docker container and deploy using Elastic Beanstalk.
- D.** Develop each app in separate Docker containers and deploy using CloudFormation.

5. A company requires an open-source system for automating the deployment, scaling, and management of containerized applications. Which of the following would be ideal for such a requirement?

- A.** Use the Amazon Elastic Container Service for Kubernetes.
- B.** Install a custom orchestration tool on EC2 Instances.
- C.** Use SQS to orchestrate the messages between docker containers.
- D.** Use AWS Lambda functions to embed the logic for container orchestration.

Article of the Week

10m

- [How to Get AWS Certified: Tips From a DevOps Engineer?](#)

Video of the Week

10m

- [Using CloudFormation Intrinsic Functions](#)

Retro Meeting on a personal and team level

10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Coding Challenge

5m

- Launch an EC2 instance Using Ansible Playbook

Case study/Project

10m

Case study should be explained to the students during the weekly meeting and has to be completed in one week by the students. Students should work in small teams to complete the case study.

- Project-207: Web Page Application (Postgresql-Nodejs-React) deployed on EC2's with Ansible and Docker

Closing

5m

-Next week's plan

-QA Session
