

STUDENT VERSION (Week-11)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

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

Teamwork Schedule

Ice-breaking

10m

- 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 of the following commands runs Jenkins from the command line?

- A. java -jar jenkins.war**
- B. java -war jenkins.jar
- C. java -jar jenkins.jar
- D. java -war jenkins.war

2. How can we setup Jenkins jobs?

- A. Select new item from the menu
- B. After that enter a name for the job and select free-style job
- C. Then click OK to create new job in Jenkins
- D. The next page enables you to configure your job
- E. All of these**

3. In which language Ansible modules written?

- A. Ruby
 - B. Java
 - C. Python**
 - D. YAML
- While you can write modules in any language, all official modules (shipped with Ansible) use either Python or PowerShell.

4. 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

5. Ansible uses agent/master architecture.

- A. True
- B. False

Interview/Certification Questions

20m

1. Your organization is planning to use AWS ECS for docker applications. However, they would like to apply 3rd party monitoring tools on the ECS instances. They approached you asking for a recommendation. What do you suggest?

- A. AWS ECS is a managed service. Customers cannot install 3rd party softwares. Use CloudWatch for monitoring metrics.
- B. Customers will have control over AWS ECS instances and can setup monitoring like a normal EC2 instance.
- C. Raise a case with AWS to install 3rd party software on ECS. AWS will review the case and install if 3rd party software is in their trusted software entries.
- D. AWS ECS is a managed service. Customers cannot install 3rd party softwares. Use application level monitoring.

2. You have a set of Docker images that you use for building containers. You want to start using the Elastic Container Service and utilize the Docker images. You need a place to store these Docker images. What would you use for this purpose?

- A. Use AWS DynamoDB to store the Docker images.
- B. Use AWS RDS to store the Docker images.
- C. Use EC2 Instances with EBS Volumes to store the Docker images.
- D. Use the ECR Service to store the Docker images.

3. Which of the following are the parameters specified in task definition? (Amazon ECS) (choose 3 options)

- A. The Docker images to use with the containers in your task.
- B. EC2 instance types to be used as container instances.
- C. How much CPU and memory to use with each container.
- D. AWS VPC and subnets to launch containers in.
- E. The command the container should run when it is started.

4. What are the advantages of Jenkins?

Benefits of Jenkins

1. Jenkins is an open-source tool that is extremely easy to install and use. You need no extra components to use it
2. It is free and available to be used with different platforms, such as Windows, Linux, macOS, and others
3. It is widely used, so finding support on online communities is not a big problem
4. Jenkins automates all integration work. Integration issues are scarce, and so, it helps in saving time and money over the project lifecycle.
5. It is easy to configure, extend, and modify. It allows the instant generation of tests and building, automation, and deployment of code on different platforms
6. Jenkins can be configured to run CI and CD concepts properly
7. It can easily detect and fix issues. The software is always ready for a sudden release
8. Supports a variety of plugins, which allows better flexibility
9. It helps in detecting errors very early, thus saving developers a lot of time and hard work.

5. What are Ad-hoc commands?

Video of the Week

- [What is Ansible?](#)

Retro Meeting on a personal and team level

Ad hoc commands are commands which can be run individually to perform quick functions. These commands need not be performed later. 10m

Ask the questions below:

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

For example, you have to reboot all your company servers. For this, you will run the Adhoc commands from 'usr/bin/ansible'.

These ad-hoc commands are not used for configuration management and deployment, because these commands are of one time usage.

Coding Challenge

- [Coding Challenge: Draw Box](#)

ansible-playbook is used for configuration management and deployment. 5m

We assume that each group has two sub teams. Each week, one of the sub-teams will present their solution.

Case study/Project

10m

Case study should be explained to the students during the weekly meeting and has to be completed in one Sprint (2 weeks) by the students. Students should work in small teams to complete the case study.

- [Project-202 : Jenkins Pipeline for Dockerized Phonebook Application \(Python Flask & MySQL\) Deployed on Docker Swarm](#)

Closing

5m

-Next week's plan

-QA Session
