TEAM LEAD VERSION (Week-11)

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

Answer: A

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

Answer: E

3. In which language Ansible modules written?

A. Ruby
B. Java
C. Python
D. YAML

Answer: *C*

4. What will be happen after runing this command?

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

A. Installs latest version of Apache to all ubuntuservers
B. Installs latest version of Apache to all ubuntuservers and enables it
C. Installs Apache to all ubuntuservers and starts it
D. Gives Error

Answer: *D*

5. Ansible uses agent/master architecture.

A. True
B. False

Answer: *B*

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.

Answer: *B*

Options A and D are not correct. AWS ECS uses EC2 instances with ECS-optimized AMI. You will have root access to the instances and you can manage them.

Option C is not a valid statement

For more information on ECS instances, Link

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.

Answer: *D*

Amazon Elastic Container Registry (ECR) is a fully-managed Docker container registry that makes it easy for developers to store, manage, and deploy Docker container images. Amazon ECR is integrated with Amazon Elastic Container Service (ECS), simplifying your development to production workflow.

For more information on the Elastic Container Service, please visit the Link

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.

Answer: *A, C and E*

Option B and D are paramters specified in creating an ECS cluster.

4. What are the advantages of Jenkins?

Answer:

Advantage of Jenkins includes:

- *Bugs tracking are easy at early stage in development environment.*
- *Provides a large numbers of plugin support.*
- *Iterative improvement to the code.*
- *Build failures are cached at integration stage.*
- *For each code commit changes an automatic build report notification generates.*
- *To notify developers about build report success or failure, it is integrated with LDAP mail server.*
- *Achieves continuous integration agile development and test driven development.*
- *With simple steps, maven release project is automated.*

5. What are Ad-hoc commands?

Answer:

Ad-hoc commands are simple one-line commands which are used to perform a certain task. You can think of Ad-hoc commands as an alternative to writing playbooks.

For example, if we want to reboot all hosts in a particular group(webservers). Then you can write a playbook or simply run a one-off ad-hoc command.

Video of the Week   5m

- What is Ansible?

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

- Coding Challenge: Draw Box

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