**DevOps Deployment Engineer –Zycus Level 1 -- Assignment**

1. What is SDLC and when release management comes into picture?  
   **ANS:**

The system development life cycle (SDLC), application development life-cycle is a term used to describe a process for planning, creating, designing, developing, testing and deploying. Release management is the process responsible for planning, scheduling and controlling the build.

1. What is the purpose of continuous integration for a development team?  
   **ANS:**

Continuous integration (CI) is requires to development team because of they will integrate the code several times a day .each check-in is then verified by an automated build, allowing teams to detect problems early.

1. How to configure virtual host in Apache?  
   **ANS:** configurevirtual host in apache

Listen 80

<Virtual Host \*:80>

DocumentRoot “/www/example”

ServerName [www.example.com](http://www.example.com)

</Virtual Host>

1. Describe a set of release criteria for web calculator application? ( Expected end-to-end release process)  
   **ANS:**

1. Envisioning a roadmap:

This step essentially followed to chart a proper direction for the project.

2. Defining target Audience

* Type of audience
* Level of security

3. Functional specifications

4. Identifying, Analyzing and selecting third party vendors

5. Designing Layout

6. Deploying the Web application

7. Testing

8. Release Production server

1. Deployment failed but site not accessible during sanity .(Troubleshoot)  
   **ANS:**

Check remote or local host up and running and go through the logs to find the issues and debug the issues.

1. Deployment failed but no issues in code/deliverables. (Troubleshoot)  
   **ANS:**

Check the required server is up and running or not whether it is within the network or out of network and do the ping and telnet for server response and enter required credentials.in case unable find error then go to root cause analysis.

1. How can you establish a connection between two or many different Jenkins jobs (hosted on distinct servers) to pass the parameters / upstream - downstream jobs etc ..( without using Master-Slave connection in a secured way)  
   **ANS:**

Jenkins->create new job->Add the Source code Repo->Select Build Trigger Remotely ->go to post build actions-> configure build other project when it is stable or failed add other Jenkins job upstream or downstream projects

1. Automate check-out process from multiple repositories using Jenkins.  
   **ANS:**

Jenkins->create new job ->add multiple source code repos-> check out the multiple repos or write the jenkinsfile and check out multiple repos from repositories

1. How to pass an additional parameter for executing a Ansible playbook . Mention all the possible steps.  
   **ANS:**

Ansible-playbook ansible.yml --extra-vars “package=httpd”

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* hosts: all

remote\_user: raja

become: sudo

Tasks:

-name: install some packages

Yum: name=”package” state=present

1. Provide a flow-diagram which depicts a flow development of Ansible playbook with Ansible Galaxy.

**ANS:**

Ansible galaxy flow Development structure and sharing the roles through Ansible galaxy

Defaults/

Main.yml

Files/

Add the required files here.

Handlers/

Main.yml

Meta/

Main.yml

Templates/

Templates is jinja2 format

Test/

Inventory

Test.yml

Vars/

Main.yml

NOTE: Write the answers below the questions and send the word file back in email attachment.