Integration workshop [16,17,18,19,20] September, 2014

Thirumal Ravula, Virtual Labs Engineering and Architecture Division (VLEAD)

2014-09-16

Contents

1 Goals of Workshop

1.1 Overview

1.2 Version control of Labs

Sources Have source of atleast two labs

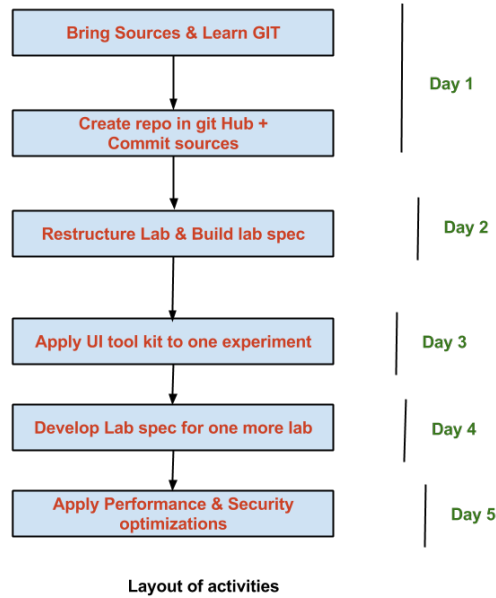**Create Repository** Learn git version control and create a repository on github.

Figure 1: Activities

Commit Commit the source on github

1.3 Creation of deployment specification

Restructure The layout of the sources has to be restructured to the auto deployment structure

Build Manually Build the lab source manually and run the lab

Deploy use the auto deployment tool to deploy the lab ina container.

1.4 Make the lab UI 1.0 compliant

Learn Learn the toolkit UI 1.0

Convert Convert the lab by taking one experiment at a step

Deploy Test the conversion suing the auto deployment.

1.5 Performance and Security

Learn What is performance optimization and Security vulnerabilities.

Changes Use the tools in Lab Integration Kit to improve the lab

Test Auto deploy and test against the tools

2 Activities

2.1 Operating System

Centos Centos is the base OS.

Requirements > 4 GM RAM, > 50 GB hard disk space

2.2 Virtualization

Learn What is virtualization?

Containers Container a machine in itself.

Navigation Managing containers, (create, stop, destroy etc)

2.3 Auto Deployment

LIK Learning to use the KIT

Services Start the auto deployment services.

Deploy After the lab is restructures and deployment spec is ready, these services would be invoked to deploy the lab.

2.4 Lab KIT

LIK Learn the UI tool kit.

Restructure Restructure the code to fit the layout.

Iterative process Build one experiment at a time.

3   Style of Accomplishment

Learn There would be sessions that tell how to execute each step.

DO IT Hands on sessions to accomplish the tasks. As an individual you will be responsible for the final goals.

Assignments Interdependent activities, we will not be able to move forward if each talk specified for each day is not accomplished.

Lots of Fun We would like to learn from you and make this effort successful.