Compare and Contrast Automation and Orchestration

Lab Overview

Software automation and software orchestration are related, but operate at different scales. To better understand them, you will be given a list of key concepts and asked to associate them with automation, orchestration, or both. You will back up your assertions with research.

In this lab, you will:

- Research automation and orchestration
- Discuss similarities and differences between automation and orchestration by categorizing a list of keywords and concepts

Estimated Completion Time

30 minutes

Exercise 1: Research Automation/Orchestration

The class will divide into an even number of groups. Half of the groups will research automation. The other half will research orchestration. Research your topic for 15 minutes. Look out for the following keywords and try to determine if they belong to automation (**A**), orchestration (**O**), or both (**B**), and why.

Keyword	A	O	B	Reason
Management	○	○	○	
Python Script	○	○	○	
Provisioning	○	○	○	
Code	○	○	○	
Single task	○	○	○	
Process Coordination	○	○	○	
Infrastructure	○	○	○	
HCL				

HCL Configuration Language	○	○	○	
Eliminate repetition	○	○	○	
User-defined function	○	○	○	
Increase reliability	○	○	○	
Terraform	○	○	○	
Version control	○	○	○	
Unit test	○	○	○	
Decrease IT cost	○	○	○	
Thread creation	○	○	○	
Decrease friction among teams	○	○	○	
Increase productivity	○	○	○	
PyCharm	○	○	○	
Workflow	○	○	○	

Exercise 2: Compare and Contrast

The instructor will make three columns on the whiteboard. The first colum will be labeled Automation. The second column will be labeled Both, and the third column will be labeled Orchestration. Based on your research from exercise 1, go through the list of keywords and concepts and put them in one of the columns. Be sure to give the reason you would place each keyword or concept in a particular column.

STOP

You have successfully completed this lab.