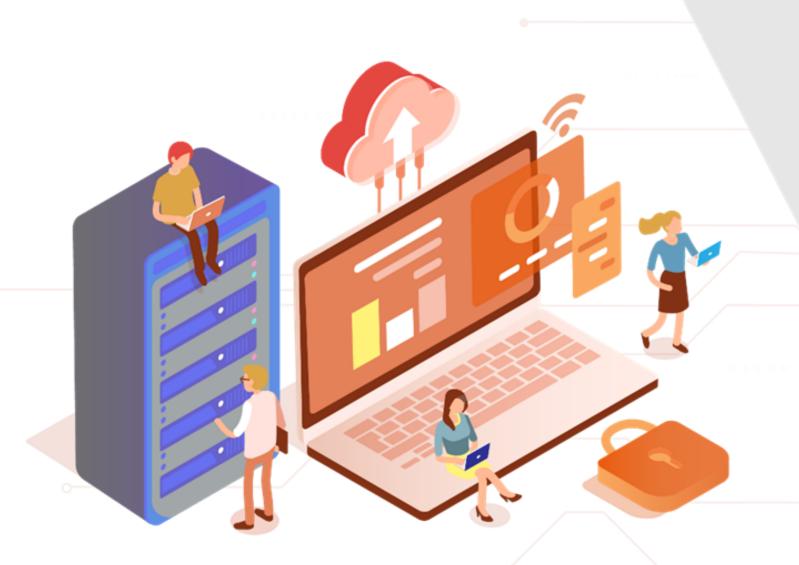


Caltech Center for Technology & Management Education

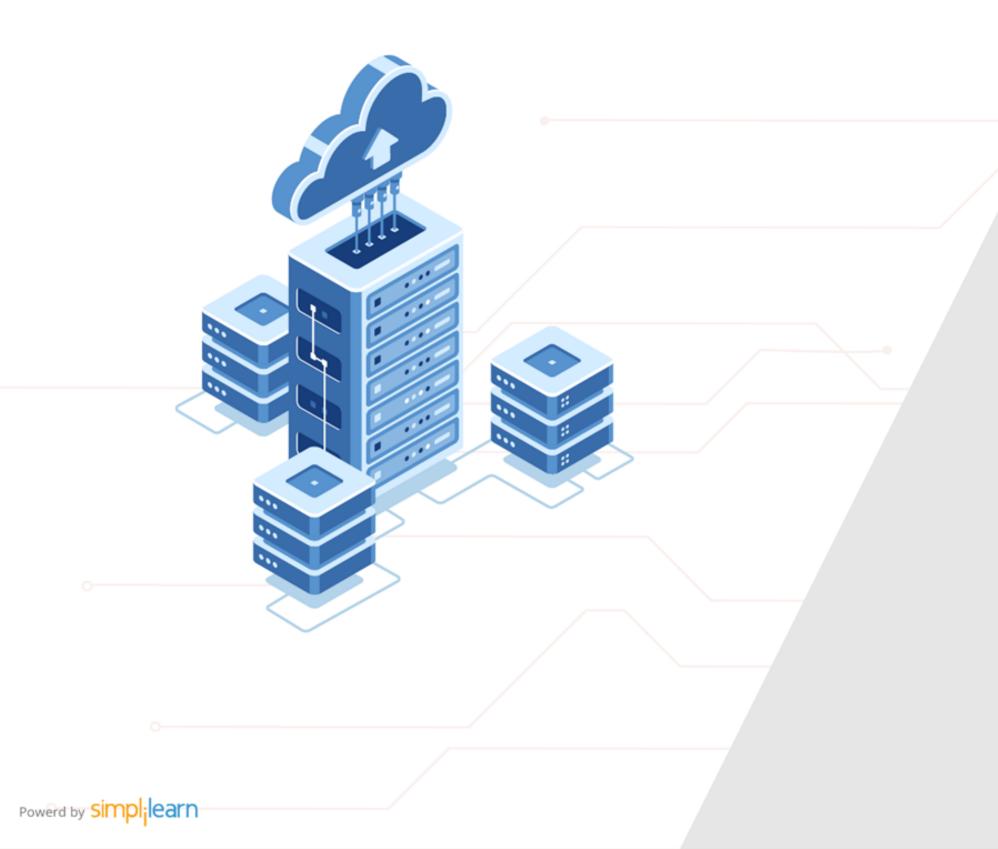
**Post Graduate Program** in DevOps



Caltech Center for Technology & Management Education

**Configuration Management with Ansible and Terraform** 

### **DevOps**



**Course Introduction** 

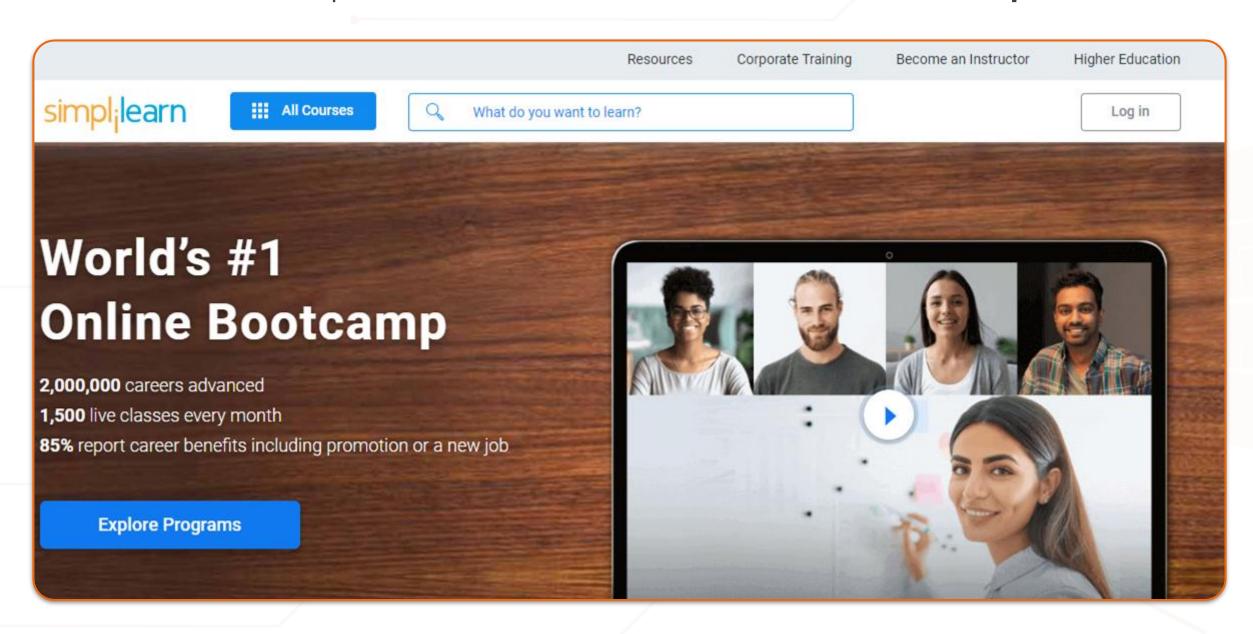


### **About Simplilearn**



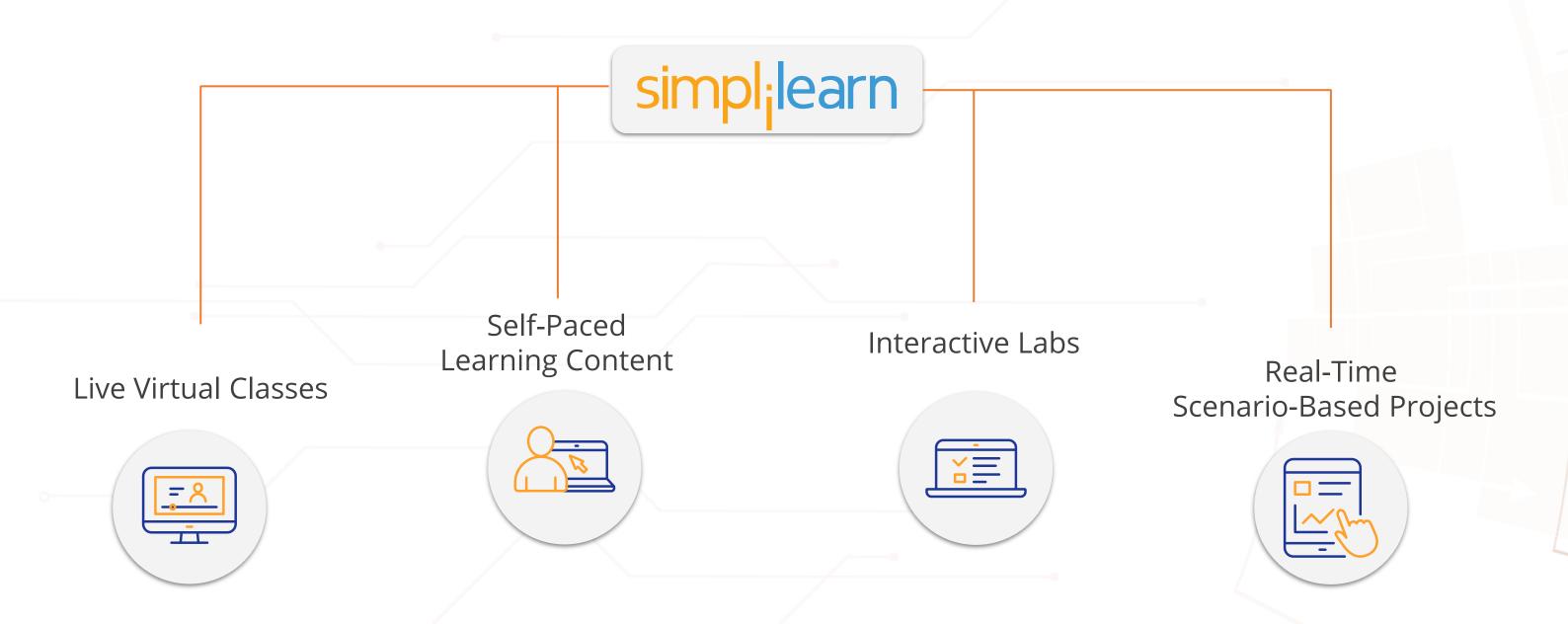
### **About Simplilearn**

For over a decade now, Simplilearn is focused on digital economy skills. Now, Simplilearn has become **World's #1 Online Bootcamp.** 



### Simplilearn

At Simplilearn, we provide:

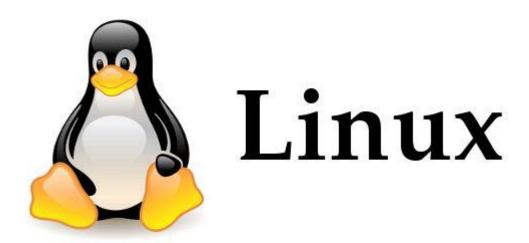




### **Prerequisites** Center for Technology & Management Education Powerd by Simplilearn

### **Prerequisites**

Here is the prerequisite for this course. Please ensure that the fundamentals of the prerequisite are clear.



Basic Linux Administrator Skills



### Introduction to Configuration Management



### **Configuration Management**

Configuration management is a process for maintaining computer systems, servers, and software in a desired and consistent state.



It ensures that a system continues to perform as expected as changes are made over time.





### **Configuration Management Tools**

Configuration management tools manage all configuration items in software for all environments.



Configuration
management tools
cover both
software and
server
configurations.



They help in reducing the time taken to manage configurations manually on each server.

### **Skills Covered**



- Ansible is a simple
   IT automation platform
   that makes applications
   and systems easier to
   deploy and maintain.
- It implements
   configuration management
   with a master-slave
   approach and
   uses Terraform
   for infrastructure
   automation.



- Terraform is an opensource infrastructure as a code software tool that provides a consistent CLI workflow to manage hundreds of cloud services.
- It is cloud agnostic and allows a single configuration to manage multiple providers, and to even handle crosscloud dependencies.





### **Why This Course?**

- To identify the properties enforced by DevOps and configuration management
- To apply Ansible fundamentals to automate the software tools and technologies
- To implement Configuration Management with the Ansible using a master-slave approach
- To work with Terraform and take infrastructure automation to the next level





### **Target Audience**

### **System Engineer**

CM helps by establishing and maintaining consistency of a product's performance, functional, and physical attributes.



### **Application Developers**

CM helps to systematically manage, organize, and control the changes in the documents, codes, and other entities.

### **Solution Architects**

Terraform is a cloud-based tool that helps in managing IaC and automate most system administration tasks.

### **Site Reliability Engineer**

CM provides the understanding of configuration management database (CMDB), standardization, and automation.

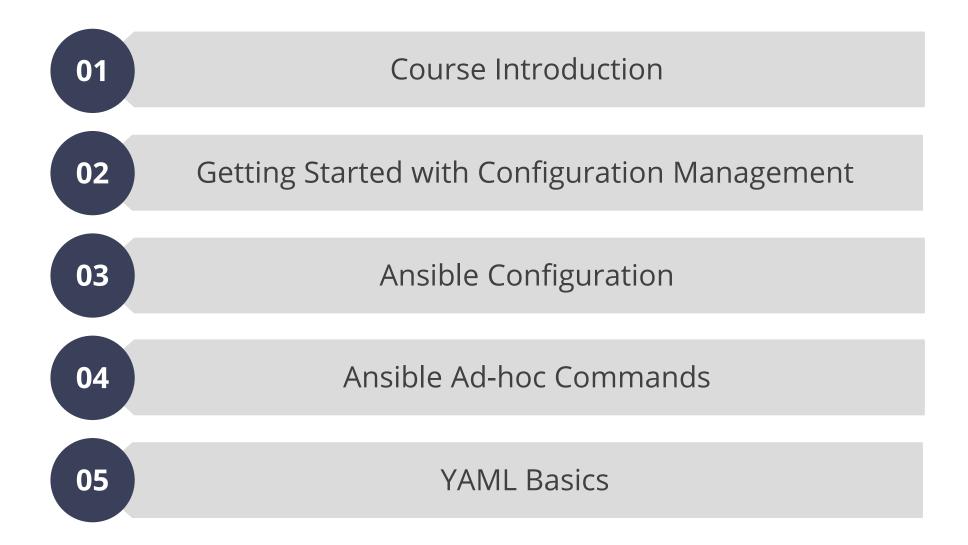




## **Learning Path** Powerd by Simplilearn

Center for Technology & Management Education

### **Course Outline**





### **Course Outline**





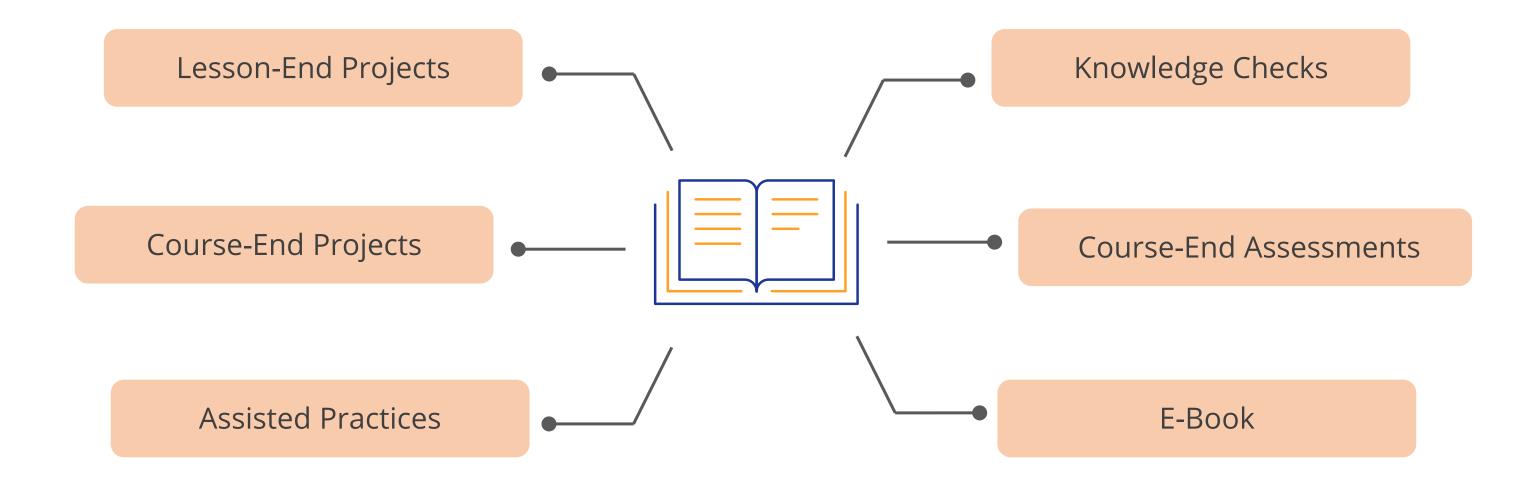
# **Course Components**

Powerd by Simplilearn



### **Course Components**

Simplilearn's comprehensive learning platform will provide you an in-depth understanding of the key concepts with the help of the following course components:





### **Course Completion Criteria**

1

Attend one complete Live Virtual

Class (LVC) in a batch



Score a minimum of 70% in course-end assessment



3

Submit at least one course-end project





### Let's get started



