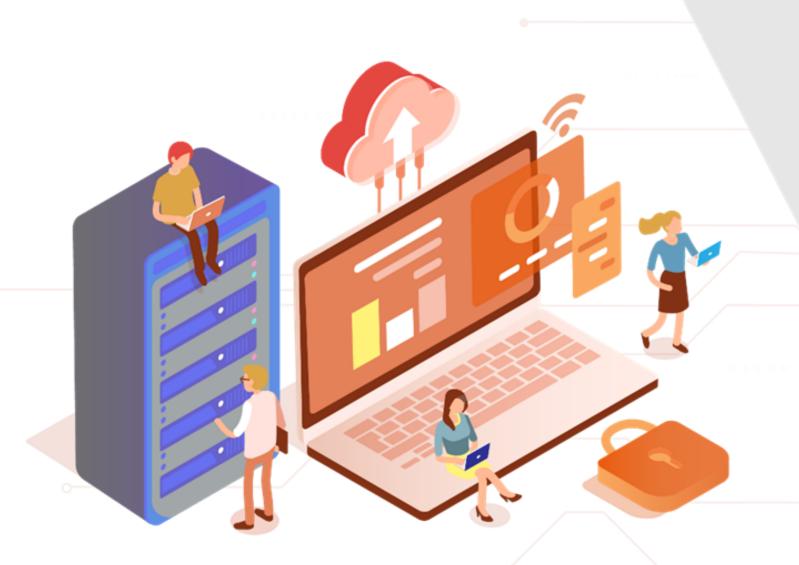


Caltech Center for Technology & Management Education

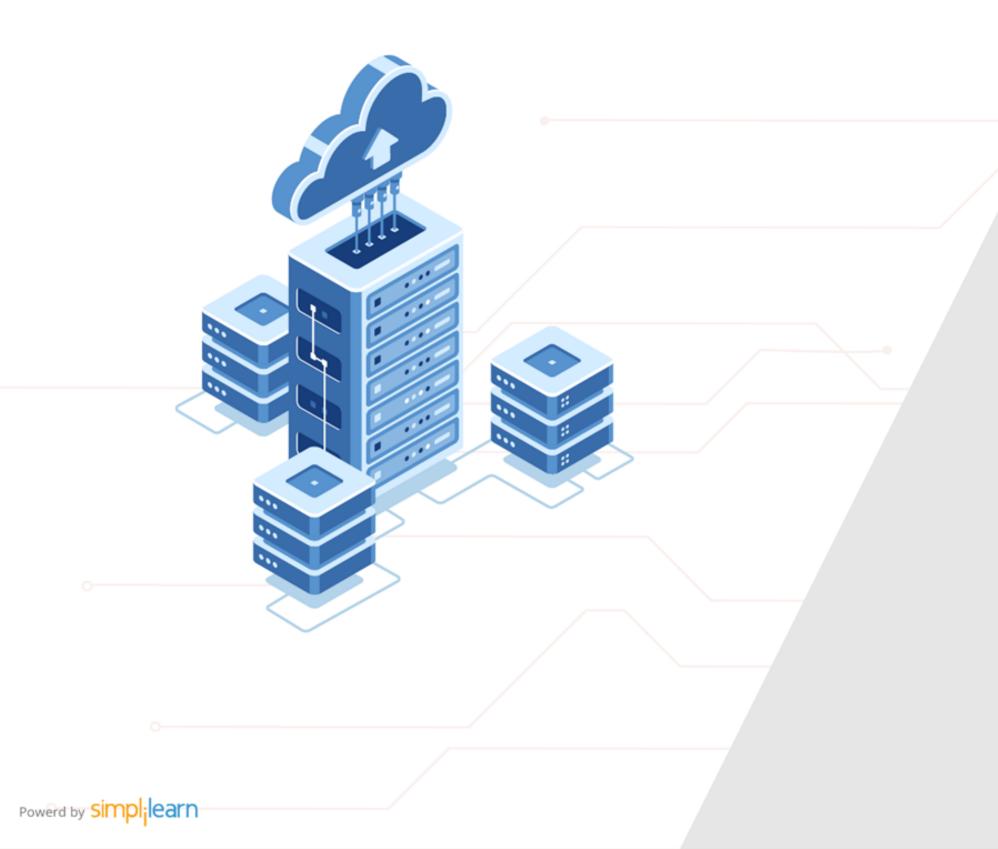
Post Graduate Program in DevOps



Caltech Center for Technology & Management Education

Configuration Management with Ansible and Terraform

DevOps



Course Introduction

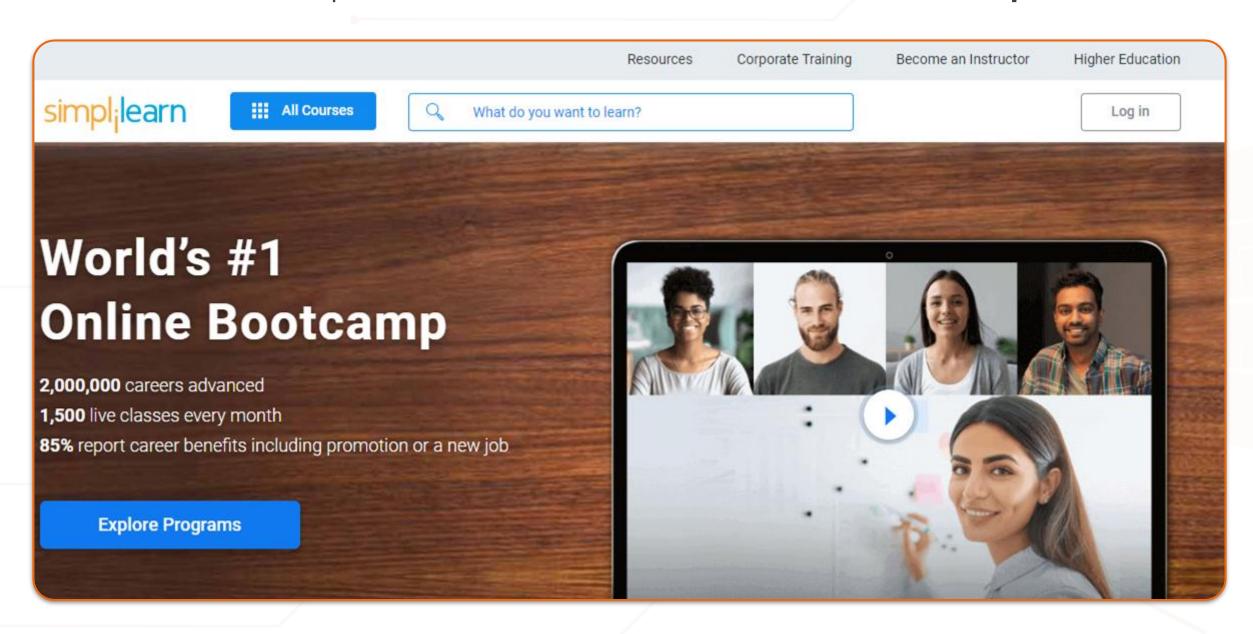


About Simplilearn



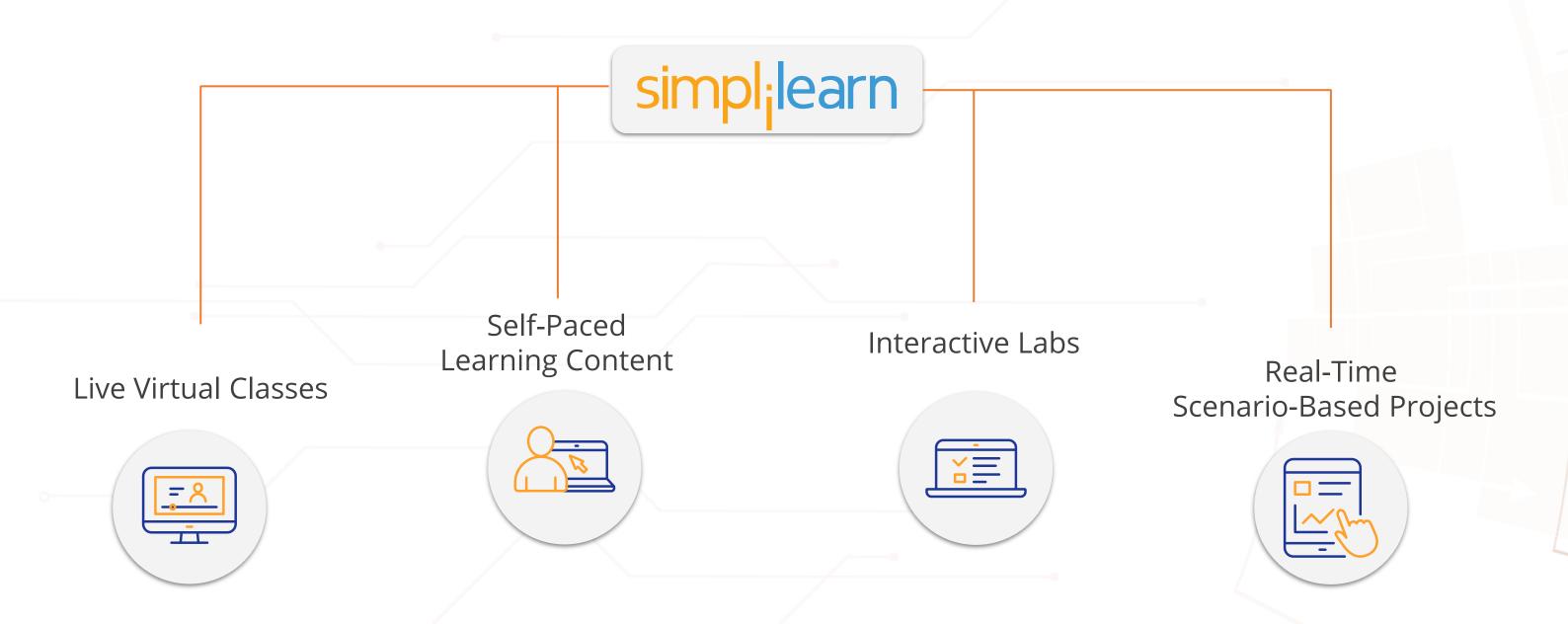
About Simplilearn

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:

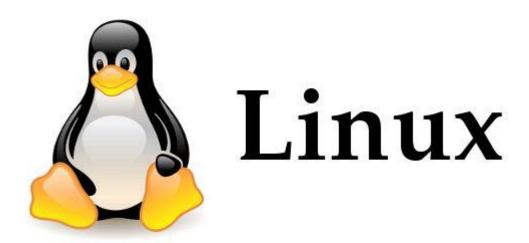




Prerequisites Center for Technology & Management Education Powerd by Simplilearn

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.



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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.

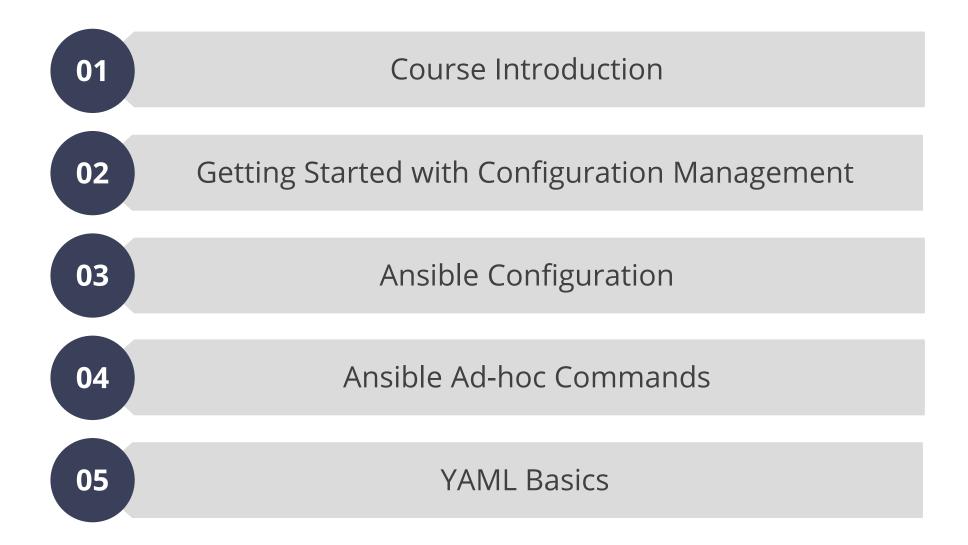




Learning Path Powerd by Simplilearn

Center for Technology & Management Education

Course Outline





Course Outline





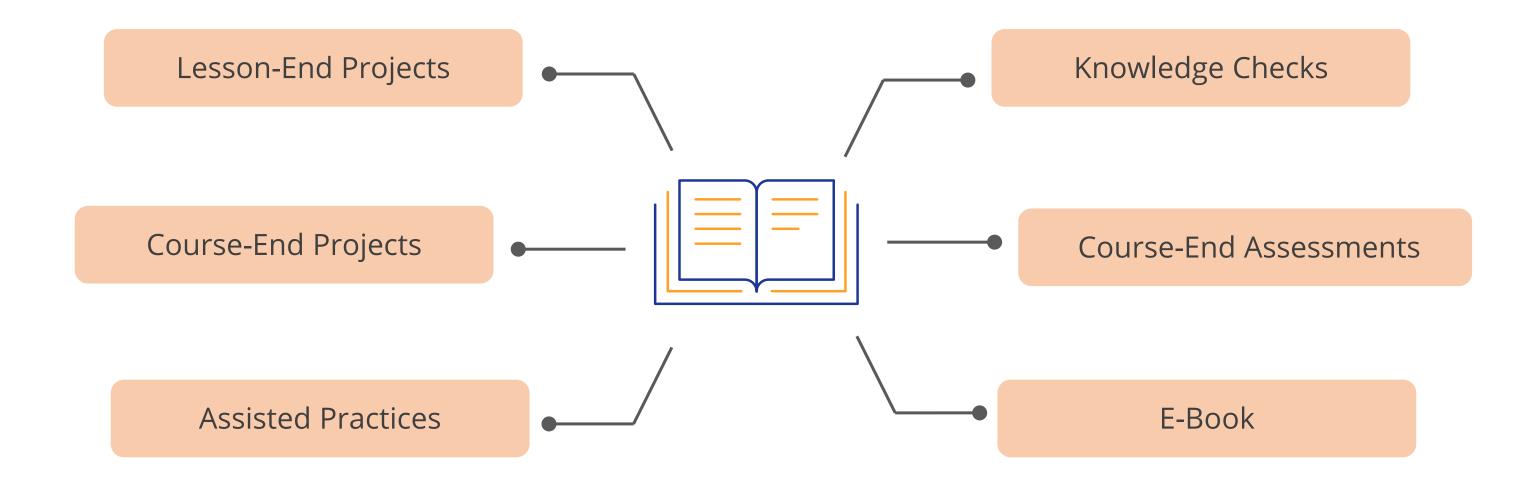
Course Components

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



