Automation with Scripting Training

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Course Content	Duration
1. Shell Scripting	20 hrs
2. Python Scripting	30 hrs
3. Ansible yaml Scripting	20 hrs
4. AWS Automation with	60 hrs
- AWS CLI	
- Shell Scripting	
- Python Scripting	
- Terraform	

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Shell Scripting Course details:

Introduction to Shell:

- Basics of Shell
- Hello world script
- Shebang line
- Variables
- Set and Unset a variable
- Types of variables
- Data Types
- Operations on strings
- Data Structures

Unix-commands:

- Basic commands
- Advance commands(cut, aws and sed)

Command Substitution:

- Assigning a command to a variable
- Storing output to a variable
- Assigning global value – using Export

Command Line Arguments:

- Passing input in runtime.
- Using input inside a program

Conditional Statements:

- If
- If-else
- Nested if-else

Loops and control statements:

- For loop
- While loop
- Nested loops
- Break and continue
- Case statement

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Functions:

- Creating a function
- Calling a function in file
- Calling a function in another file

Scheduler:

- Scheduling a job – using 'Crontab'
- Scheduling a job – using 'at'

Advance shell scripting:

- Regular expression
- Working with Database
- Working with Webservers and Application Servers

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Python Scripting Course Details:

Introduction:

History

Difference between Programming and scripting

Features

Installation of Python on Windows and UNIX machines

Setting up path

Simple hello world program

Variables

Data types

Data structures (List, tuple, dictionaries, sets and arrays)

Operations on strings

Operators

Input and output statements:

Print

Raw_input and input (for both 2.x and 3.x)

Conditional Statements:

If

If-else

Nested if-else

Loops and control statements:

For

While

Nested loops

Break

Continue

Pass

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Functions

Defining a function

Calling a function

Types of functions

Function Arguments

Scope of the variable (global and local)

Modules:

Definition

Creating modules

Importing modules

Usage of modules(os, sys, subprocess, random json, yaml)

Reading xml files

Exception Handling:

Definition

Exception Handling (try except and try finally)

Regular expressions:

Match

Search

Find

Findall

Finditer

Replace

Split

Oops concepts:

Class and object

Inheritance

Data hiding

Data abstraction

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Working with Database and OS(Windows and Unix):

Connecting to Data base

Executing DB queries

Executing tasks of Unix and winnows using python

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Ansible Automation with Playbooks Course Details

- Introduction to yaml
- Writing simple playbooks with yaml
- Tasks
- Variables
- Input and output modules
- Conditional Statements
- Loops
- Handlers
- Roles
- Plugins
- Ansible-galaxy

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AWS Automation Course Details:

Introduction to AWS CLI:

AWS CLI

AWS CLI Commands

Configuring the programmatic key on local host

Boto3

Boto3 introduction

Boto3 configuration

Session

Custom session

Resource and client methods

Meta data method

Usage of Resource and client methods

Usage of client using resource with Meta data

Basic scripts with boto3 using its methods

Collections

Tags

Filters

Waiters

Paginators

Lambda:

Introduction to lambda

Lambda features

Writing code using lambda

Trigging methods of Lambda(API Gateways, S3 events, Cloud watch and events etc..)

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Terraform Course Details:

Introduction to Terraform

a. Introduction
b. Difference between Configuration management tools and Terraform
c. Terraform Installation on windows and Unix machines

Terraform basics:

a. Terraform for AWS Setup
b. Steps to write Terraform
c. Provisioning aws services

Terraform Concepts:

a. Variables
b. Input variables
c. Output Variables
d. Modules