

# Getting Started with Cloud



## **Description:**

This course will assist students in grasping the basic concepts of cloud computing with its various applications. This course will equip students with the proper start that they require to begin their career in cloud computing in today's modern environment, where cloud engineers are in high demand. This hands-on practical-oriented course will enable students to apply their cloud computing skills and help them in starting with a lucrative career in cloud computing.

## **Start Date:**

## **Doubt Clear Time:**

## **Course Time:**

## **Features:**

# Online Instructor-led learning

# Practical Implementation

# Integrate academic knowledge with the tech

# Real-time Project

# Live Class Recording

# Doubt Clearing

# Assignment in all the Module

# Quiz in every Module

# Career Counselling

# Completion Certificate

### **What we learn:**

# Cloud computing fundamentals

# Types of Clouds

# Risks

# Features of Cloud Computing

# Virtualization

# Characteristics of Cloud

# Cloud Computing Architecture

### **Requirements:**

# Interest to learn

# Dedication

# System with good internet connection

### **Instructor:**

### **>Course Introduction:**

>>Course introduction

- >>Who is this course for?
- >>Course overview & course outcome
- >>Course Pre-requisite
- >>What is Cloud?
- >>What is Cloud computing?
- >>Why cloud is important?
- >>History of Cloud computing

### **>Assignment 1:**

- >>What are the benefits of Cloud?
- >>Write down the benefits of cloud computing?

### **>Basic Cloud concepts:**

- >>Types of Cloud
- >>What is Public cloud?
- >>What are the different types of Public cloud?
- >>What is a Private cloud?
- >>What are the different types of Private cloud?
- >>What is Hybrid cloud?
- >>What are the different types of Hybrid cloud?
- >>What is Community cloud?
- >>What are the different types of Community cloud?
- >>Service Models
- >>What is Infrastructure as a Service (IaaS)

>>What is Platform as a Service (PaaS)

>>What is Software as a Service (SaaS)

### **>Assignment 2:**

>>Name the clouds which are most popular?

### **>Assignment 3:**

>>What is the difference between IaaS, PaaS, and SaaS?

### **>Risks :**

>>What is Security?

>>Why is Security important?

>>What is Privacy?

>>Why is Privacy important?

>>What is LOCK-IN?

>>Why is LOCK-IN risky?

>>What is Isolation failure?

>>What is Management Interface compromise?

>>What is Insecure or Incomplete data deletion?

### **>Assignment 4:**

>>How to avoid fraudulent activities on the cloud?

### **>Virtualization :**

>>What is Virtualization?

>>What is the intuition of Virtualization

>>Types of Virtualization

>>What is Hardware virtualization?

>>What is the use of Hardware virtualization?

>>What is Operating system virtualization?

>>What is the use of the Operating system virtualization?

>>What is Server virtualization?

>>What is the use of Server virtualization?

>>What is Storage virtualization?

>>What is the use of Storage virtualization?

### **>Assignment 5:**

>>How does virtualization work in Cloud computing?

### **>Data Virtualization:**

>>What is Data virtualization?

>>What are the advantages of Data virtualization?

>>What are the disadvantages of Data virtualization?

>>What are the uses of Data virtualization?

>>Data virtualization tools

### **>Assignment 6:**

>>How well do you know about Data virtualization?

## **>Characteristics :**

>>Essential Characteristics

>>On-demand self-service

>>Broad network access

>>Resource pooling

>>Rapid elasticity

>>Measured service

>>Common Characteristics

>>Massive scale

>>Homogeneity

>>Virtualization

>>Low cost software

>>Resilient computing

>>Geographic distribution

>>Service orientation

>>Advanced security

## **>Assignment 7:**

>>What is the difference between Essential and Common characteristics?

## **>Cloud Computing-Architecture**

:

>>What is Front End?

>>What is Back End?

>>What is Client infrastructure?

>>What are the Applications?

>>What are the Services?

>>Software as a Service (SaaS)

>>Example of Software as a Service

>>Platform as a Service (PaaS)

>>Example of Platform as a Service

>>Infrastructure as a Service (IaaS)

>>Example of Infrastructure as a Service

>>What is the Runtime cloud?

>>What is Storage?

>>What is Infrastructure?

>>What is Management?

>>What is Security?

>>What is Internet?

### **>Assignment 8:**

>>Describe the cloud computing architecture in your own words?

### **>Course Summary :**

>>Course outro

>>Future learning path