**FutureSkills PRIME Programme**

**Government Officials Training on Cloud Computing**

**Objective**

The objective of the training is to provide an insight to the aspirants to implement their own Virtualization and Cloud Computing environment using various open source tools, which can induce their research and development activities at a faster pace.

**Deliverables of tutorial**

At the end of the tutorial, the participants will be able to establish their own Cloud Computing Environment and proceed with their further research and development on Virtualization and Cloud Technologies.

**Topics/Tools covered**

The training covers the overview of Cloud Computing, overview of open source tools. Hands-on session on establishing Virtualization, Cloud Computing environment and working on AWS.

**Pre-requisites of participants**

1. Working knowledge of Linux Operating System

**Schedule**

| **Time** | **Session** | **Resource Person** |
| --- | --- | --- |
| **Day 1 - 30-10-2023** | |  |
| **02:00-03:15** | Demystifying Cloud Computing | Mr Kailash |
| **03:15-3:45** | Introduction to Linux Environment | Mr Mahendran |
| **3:45-4:00** | **Break** |  |
| **4:00-5:00** | Data Centre Components | Mr. Prasanna |
| **Day 2 - 30-10-2023** | |  |
| **02:00-03:45** | Virtualization | Ms Prabha |
| **3:45-4:00** | Break |  |
| **4:00-5:00** | Hands On - KVM , VirtualBox | Ms Rakshana |
| **Day 3 - 01-11-2023** | |  |
| **02:00-03:45** | AWS Public Cloud | Mr.Kailash |
| **3:45-4:00** | Break |  |
| **4:00-5:00** | Demo - AWS | Mr. Murali |
| **Day 4 - 02-11-2023** | |  |
| **02:00-03:45** | Private Cloud - OpenStack | Mr.Mahendran |
| **3:45-4:00** | **Break** |
| **4:00-5:00** | Handson - Openstack Devstack |
| **Day 5 - 03-11-2023** | |  |
| **02:00-03:45** | Cloud Networks | Mr Ananth |
| **3:45-4:00** | Break |
| **4:00-5:00** | Handson - Cloud Networks |
| **Day 6 - 06-11-2023** | |  |
| **02:00-03:45** | Cloud Storage | Ms.Prabha |
| **3:45-4:00** | **Break** |  |
| **4:00-5:00** | Application Hosting in Cloud | Mr.Mahendran |
| **Day 7 - 07-11-2023** | |  |
| **02:00-03:45** | Cloud Security | Ms Rakshana |
| **3:45-4:00** | **Break** |  |
| **4:00-5:00** | Cloud Management | Mr.Mahendran |
| **Day 8 - Containers** | |  |
| **02:00-03:45** | Introduction to Containers | Mr. Kailash |
| **3:45-4:00** | **Break** |
| **4:00-5:00** | Hands-on Container |
| **Day 9 - Cloud Business Continuity** | |  |
| **02:00-03:45** | Orchestration | Prabha.V.A |
| **3:45-4:00** | Break |
| **4:00-5:00** | Fault Tolerance and Disaster Recovery |
| **Day 10 - Cloud Monitoring** | |  |
| **02:00-03:45** | Cloud Monitoring | Mr.Mahendran |
| **3:45-4:00** | Break |  |
| **4:00-5:00** | Assessment and Feedback |  |