INTERNET OF THINGS
(Using AWS)

DAY 1

Introduction to AWS IoT

- ✓ Install the AWS CLI
- ✓ Create a Device in the Thing Registry
- ✓ Secure Communication between a Device and AWS IoT
- ✓ Verify MQTT Subscribe and Publish
- ✓ Configure and Test Rules
- ✓ Use the Device Registry and Device Shadows
- ✓ Device Registry

Security and Identity

- ✓ Identity in AWS IoT
- ✓ Authorization

Message Broker

- ✓ Protocols
- ✓ Topics

Rules

- ✓ Granting AWS IoT the Required Access
- ✓ Creating an AWS IoT Rule
- ✓ Viewing Your Rules
- ✓ Troubleshooting a Rule
- ✓ Deleting a Rule
- ✓ AWS IoT Rule Actions

AWS IoT SQL Reference

- ✓ Expressions
- ✓ SELECT Clause
- ✓ FROM Clause
- ✓ WHERE Clause
- ✓ Functions
- ✓ JSON Extensions
- ✓ Substitution Templates

DAY 2

Device Shadows

- ✓ Device Shadows Data Flow
- ✓ Device Shadows Documents
- ✓ Using Device Shadows
- ✓ RESTful API
- ✓ MQTT Pub/Sub Messages
- ✓ Document Syntax
- ✓ Error Messages

AWS IoT SDKs

- ✓ Device SDK
- ✓ AWS IoT Device SDK for C
- ✓ AWS IoT Device SDK for Node.js

Troubleshooting

- ✓ Diagnosing Connectivity Issues
- ✓ Setting Up CloudWatch Logs
- ✓ Diagnosing Rules Issues

Duration: **2 Day**

Kit: **Standard kit will be take away in group of 5 participant,**

Minimum number of participant: **60**

Fee: **INR 1200/- for 2 day workshop.**