Guest Lecture on AWS Cloud Migration Technology and Practices

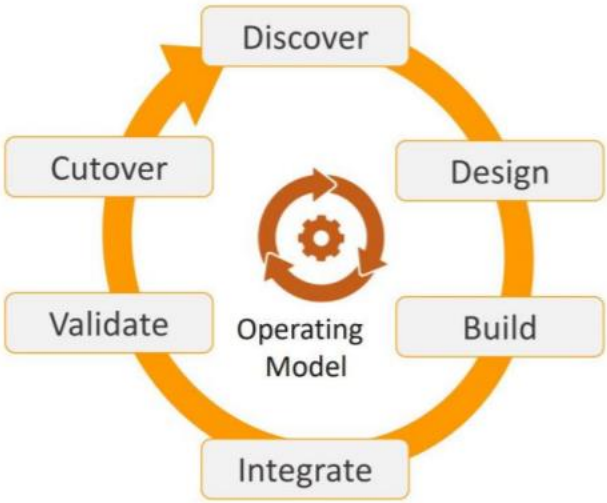
The Guest speaker gave a short review about moving or migrating the enterprise workload onto AWS cloud, the phases involved in migration, reasons for migration, migration methodologies, types of migration and so on.

Epilogue:

Some of the main reasons for migration to AWS are

- Business agility
- Economics of scale
- Lack of IT resources
- Improved service availability
- Reduce capex with Pay as You Go
- Breath of functionality

AWS Migration Methodology:



AWS Well-Architected:

The Well-Architected framework has been developed to help cloud architects build the most secure, high-performing, resilient, and efficient infrastructure possible for their applications. This framework provides a consistent approach for customers and partners to evaluate architectures and provides guidance to help implement designs that will scale with your application needs over time.

- Operational excellence
- Security

- Reliability
- Performance efficiency
- Cost optimization

AWS Iot:

- The Internet of Things (IoT) is a term coined by Kevin Ashton, a British technology pioneer working on radio-frequency identification (RFID) who conceived a system of ubiquitous sensors connecting the physical world to the Internet. Although things, Internet, and connectivity are the three core components of IoT, the value is in closing the gap between the physical and digital world in self-reinforcing and self-improving systems.

Characteristics of Portfolio Discovery Tools:

- Agent-based vs Agentless
- Data store location and protection
- Dependency discovery
- Performance discovery
- Visualization and reporting
- Cost analysis capability

Migration Workloads:

Each of the application migration waves may involve different types of workloads:

- Server Migration
- Data Migration
- Infrastructure Services Migration
- Database Migration

AWS networking:

AWS networking products enable you to isolate your cloud infrastructure, scale your request handling capacity, and connect your physical network to your private virtual network. AWS networking products work together to meet the needs of your application. For example, Elastic Load Balancing works with Amazon Virtual Private Cloud (VPC) to provide robust networking and security features.