

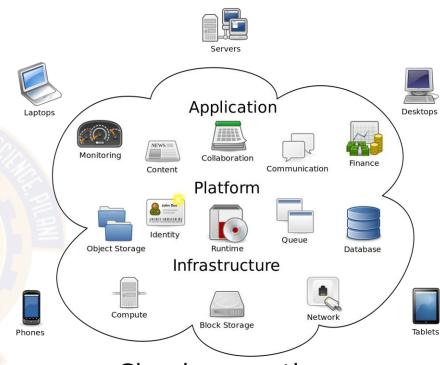
In this segment

Middleware for Cloud Applications - AWS

- Cloud Computing Overview
- AWS Cloud Components
- Launching EC2 for Linux / Windows Demo
- AWS Lambda

Cloud Computing Overview

- Cloud computing is the on-demand availability of computer system resources, especially data storage and computing power, without direct active management by the user
- Cloud computing may be available:
 - Exclusively to one organization (enterprise / private cloud)
 - Multiple organizations (public cloud)
 - Combination (hybrid)
- Cloud computing relies on sharing of resources to achieve coherence and economies of scale
- Major cloud providers:
 - Amazon AWS
 - Microsoft Azure
 - Google Google Cloud



Cloud computing

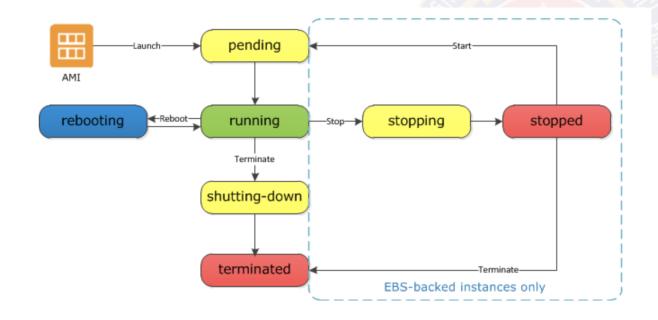
AWS Components

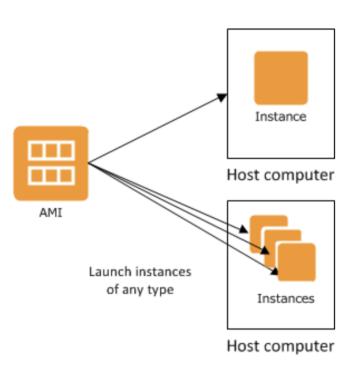
- Compute EC2, Elastic Beanstalk, Auto scaling
- Storage and Content Delivery S3, EBS
- Database RDS
- Networking VPC, ELB
- Analytics
- Enterprise Applications
- Internet of Things
- Mobile Services
- Developer Tools
- Management Tools
- Security and Identity
- Application Services
- Software (maintenance)



EC2 – AMIs and Instances

- Amazon Machine Image (AMI) is the template for a software configuration (OS, application server etc.)
- Instance(s) is a virtual server in the cloud that's a copy of AMI template



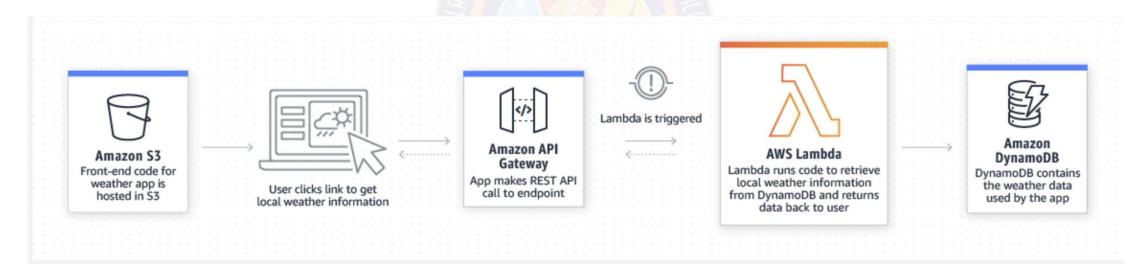


EC2 instance launch and connect

Demo from console

AWS Lambda

- AWS Lambda is an event-driven, serverless computing platform provided by Amazon as a part of AWS
- The purpose of Lambda, as compared to AWS EC2, is to simplify building smaller, on-demand applications that are responsive to events and new information
- AWS Lambda supports securely running native Linux executables



AWS Lambda - Demo

• Demo with ref-arch





Thank You!

In our next session:

Hybrid Cloud & Multi-Cloud architecture