Introduction to Cloud & AWS

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Course Outline

- What is the cloud and it's origin?

- Why Cloud?

- Which Cloud?

- How secure is the cloud?

- Types of Cloud

- Models of Cloud Computing.(IAAS/PAAS/SAAS)

What is Cloud

- The cloud is a term referring to accessing computer, information technology (IT), and software applications through a network connection, often by accessing data centers using wide area networking (WAN) or Internet connectivity.
  - Origin: Cloud used in the way back in 1960s during ARPANET Project.
  - ARPANET was the network that became the basis for the Internet.

Why Cloud?

- ▶ Stop spending money running and maintaining data centers.

- ▶ Go global in minutes.

- ▶ Stop guessing capacity.

- ▶ Increase speed and agility.

- ▶ Benefit from massive economies of scale.

- ▶ Trade capital expense for variable expense.

Which Cloud(Cloud Vendors)?

- AWS
- Azure
- GCP
- Alibaba
- Rackspace
- IBM
- DellBoomi

How secure is the cloud?

- Security in the cloud is much like security in your on-premises data centers - only without the costs of maintaining facilities and hardware.

- In the cloud, you don't have to manage physical servers or storage devices.

- Instead, you use software-based security tools to monitor and protect the flow of information into and of out of your cloud resources.

Types of Cloud

- **Public Cloud:** The **public cloud** is defined as computing services offered by third-party providers over the public Internet, making them available to anyone who wants to use or purchase them.

- **Private Cloud:** Unlike **public clouds**, which deliver services to multiple organizations, a **private cloud** is dedicated to the needs and goals of a single organization.

- **Hybrid Cloud: Hybrid cloud** is a cloud computing environment that uses a mix of on-premises, **private cloud** and third-party, **public cloud** services with orchestration between the two platforms.

Cloud Computing Model

What is AWS Cloud?

- Amazon Web Services (AWS) is the world's most comprehensive and broadly adopted cloud platform, offering over 165 fully featured services from data centers globally.

Service Categories in AWS
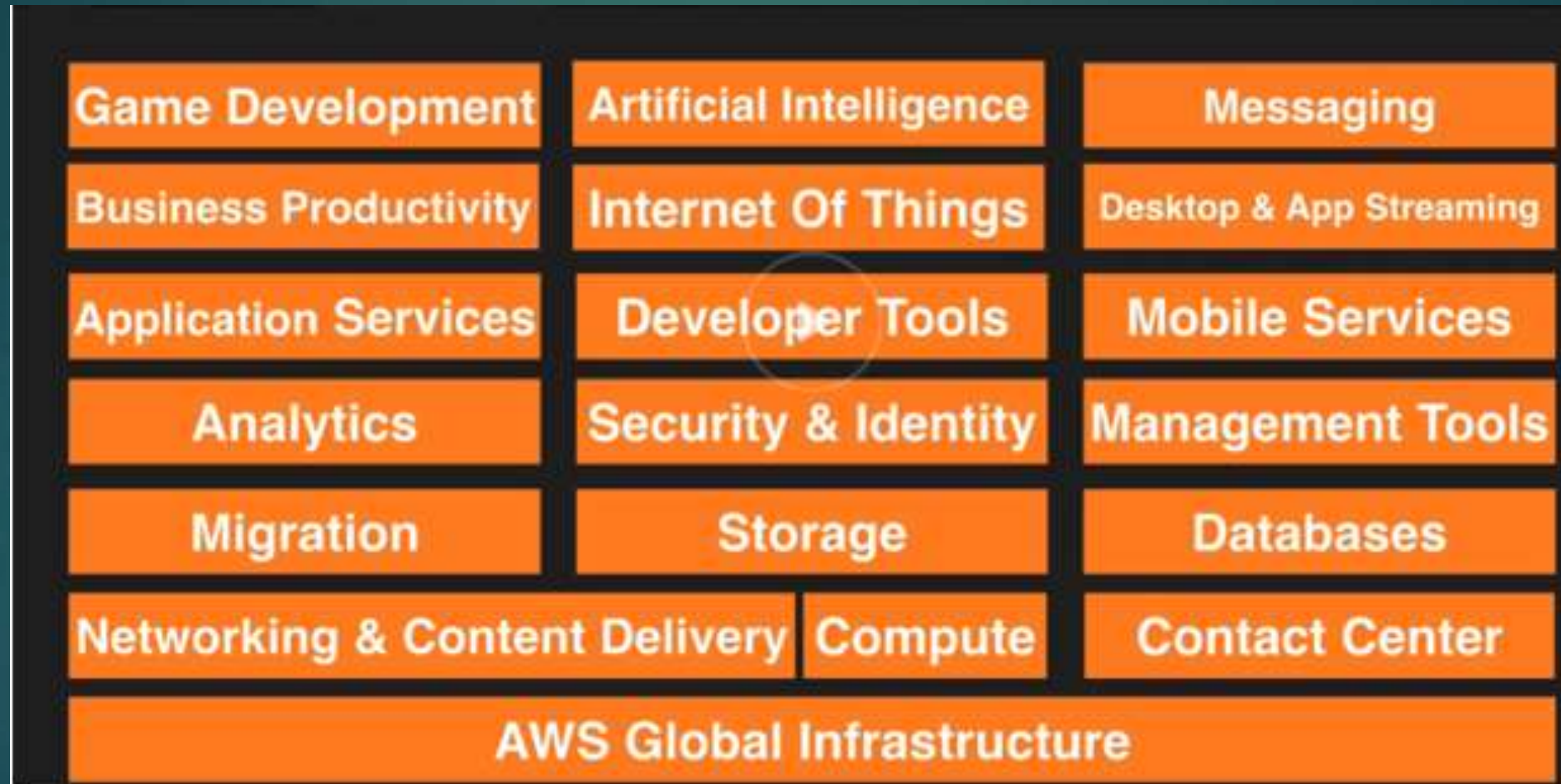
Services covered in this Course.