

AWS Certified Cloud Practitioner  
Training Bootcamp

# How is Cloud Different than Traditional Environments

# Introduction

- Migrating applications to AWS, even without significant changes (also known as “lift and shift”), provides organizations the benefits of a secured and cost-efficient infrastructure
- Architectures need to be changed and get updated, which will lead to immediate benefits like agility and elasticity, that are possible and available with cloud computing
- Following are the best practices that have emerged, as a result of cloud – traditional computing differences

# IT Assets Become Programmable Resources

- In a traditional data center, resources provisioning is done by guessing and making assumptions on maximum peak load; this results in either idle expensive resources not being utilized or insufficient capacity to handle traffic
- This is totally different with cloud computing: use the right amount of capacity, dynamically scale up or down when needed, pay-as-you-go and only for what you use
- AWS services are up and running in minutes, you can use them for as much or as little time as needed, no limits

# Global, Available and Unlimited Capacity

- When you deploy your app in the cloud, several best practices should be followed: proximity to your end users, compliance or data residency constraints, costs
- In order to achieve low latency for your applications, you may want to use Amazon CloudFront CDN
- High availability and fault tolerance for your apps by using AWS global infrastructure, deploy in multiple DCs
- With AWS, there is virtually unlimited capacity to use

# Higher Level Managed Services

- AWS services are instantly available to use: compute, storage, databases, analytics, deployment services
- Using managed services from AWS help you lower operational complexity and, also the cost
- Reducing risk for your project implementations is easy, as all AWS managed services are designed for scalability and high availability

# Security Built In

- With AWS cloud, governance capabilities that enable continuous monitoring of configuration changes to your IT resources are always-on and available
- This is different than traditional infrastructure, where auditing processes are periodic and manual processes
- Solution architects can use quite a lot of native AWS security and encryption features and services, which leads to meeting higher levels of compliance and data protection

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Thank you