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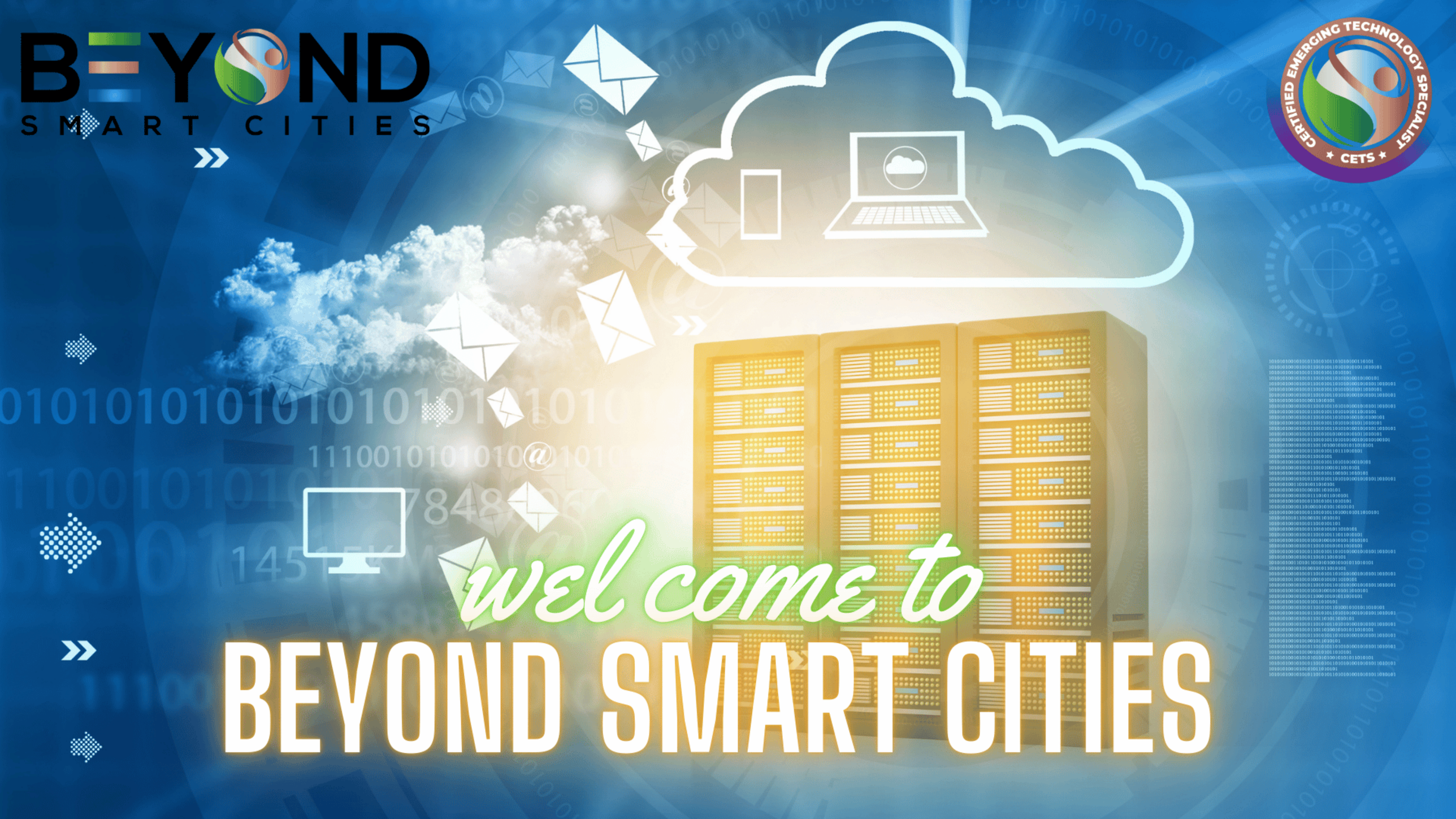

welcome to

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AWS CERTIFIED CLOUD PRACTITIONER
AWS CCP OVERVIEW
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
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MODULE 4

Understanding the AWS Environment

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AWS CERTIFIED CLOUD PRACTITIONER CCP OVERVIEW

AWS is a cloud platform that offers over 200 fully featured services from data centers globally, including computing power, storage options, networking, databases, machine learning, analytics, and the Internet of Things (IoT). Its flexible pricing models enable businesses of all sizes to utilize AWS without the need for direct management of hardware or software.

Learning Objectives

- Introduction
- What Is Cloud Computing?
- Understanding Your AWS Account
- Understanding the AWS Environment
- Working with Your AWS Resource
- AWS Certified Cloud Practitioner Credential
- Summary and Resources
- AWS CCP Quiz_Test Your Knowledge!

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INTRODUCTION

- Global cloud platform offering over 200 services.
- Flexible pricing models for businesses of all sizes.
- Computer Services: Amazon Elastic Compute Cloud (EC2) for application processing.
- Storage Services: Amazon Simple Storage Service (S3), Amazon Elastic Block Store (EBS), Amazon Glacier.
- Database Services: Amazon RDS and Amazon DynamoDB.
- Networking: Amazon VPC for isolated networks.
- Machine Learning and AI: Amazon SageMaker for machine learning model development.
- Global network of data centers grouped into regions and availability zones.
- Shared responsibility model for security and compliance.

UNDERSTANDING THE AWS ENVIRONMENT

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AWS Global Infrastructure

- Composed of Regions, Availability Zones, and Edge Locations.

AWS Regions

- Regions contain multiple, isolated locations known as Availability Zones.
- Each Region is designed to be independent from others, ensuring that the failure of one Region doesn't impact the operations of another.
- The choice of Region can significantly affect latency, compliance, and regulatory requirements.

AWS AVAILABILITY ZONES

AWS Edge Locations

- Edge Locations are data centers that provide content delivery and caching services through AWS's Content Delivery Network (CDN).
- Edge Locations are strategically placed around the world to minimize latency and enhance the speed of content delivery to end-users.

Extending the Cloud

- AWS offers services that extend the cloud capabilities beyond traditional data centers, such as AWS Direct Connect and AWS Outposts.
- AWS Direct Connect allows for consistent network performance, lower latency, and increased bandwidth, while AWS Outposts enables organizations to run AWS services on-premises.

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THE AWS SHARED RESPONSIBILITY MODEL

- The model defines the division of security and compliance obligations between AWS and its customers.
- AWS is responsible for the physical security of its data centers, while customers bear the responsibility of controlling user access, safeguarding data during transit and at rest, and guaranteeing the patching and updating of their applications.
- AWS provides various tools and services to assist customers in managing their security responsibilities effectively.

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THANK YOU