True/False

Cloud architectures rely on service-level agreements (SLAs) to ensure uptime and availability

True

Cloud architectures are designed to provide on-demand access to shared computing resources

True

Cloud architectures can help organizations to reduce their carbon footprint by enabling resource sharing and consolidation

True

Cloud computing eliminates the need for local servers and personal devices for storage

True

Platform as a Service (PaaS) is designed for users who are application developers

True

Infrastructure as a Service (IaaS) provides users with access to virtual machines (VMs) or dedicated hardware

True

Cloud computing always guarantees strong SLAs (Service Level Agreements)

False

Dropbox and iCloud are examples of Software as a Service (SaaS)

False

Community clouds are designed for a single organization to manage its own cloud infrastructure

False

Hybrid clouds combine different types of cloud services, such as public and private clouds

True

Amazon EC2 (Elastic Compute Cloud) is an example of an open-source cloud computing project

False

Amazon EC2 allows users to rent virtual machine instances and adjust the number of VMs based on demand

True

Amazon EC2 instances are all the same and have uniform performance characteristics and pricing

False

Cloud computing simplifies access to machine learning capabilities for users without extensive ML knowledge

True

Amazon, Microsoft, and Google do not offer any solutions, platforms, or infrastructures to support machine learning in the cloud

False

Amazon Web Services (AWS) is the only provider of cloud computing services

False

Private clouds offer more flexibility and scalability than public clouds

False

Community clouds are a good option for organizations with shared IT needs and security requirements

True

Hybrid clouds allow organizations to dynamically scale their resources based on demand

True

Amazon EC2 provides both virtual machines (VMs) and dedicated hardware instances

True

Data as a Service (DaaS) focuses on providing communication services over the internet

False

Communications as a Service (CaaS) includes services like VoIP and video conferencing

True

Public clouds are owned and operated by a single organization for their exclusive use

False

Private clouds can be hosted either on-premises or by a third-party provider

True

Hybrid clouds offer the flexibility to move workloads between public and private clouds as needed

True

Amazon EC2 allows users to create custom machine images (AMIs) for deploying their applications

True

Amazon EC2 instances can only run on the Linux operating system

False

Amazon EC2 provides a web-based console and APIs for managing instances

True

The speed of Amazon EC2 instances is measured in ECUs (Elastic Compute Units)

False

Users can terminate Amazon EC2 instances when they are no longer needed

True

Multiple Choice

What is a hybrid cloud computing system?

A a cloud used for a single organization

B a cloud whose energy is produced both by diesel and batteries

C a cloud shared by several organization

D a cloud composed by private and public cloud systems

Gmail is an example of:

A Software as a Service

B Hardware as a service

C Platform as a Service

D Infrastructure as a service