What are known as distinct Data Centers with their own power, cooling, and networking resources?

Zones

Zones are typically known as distinct data centers with their own power, cooling, and network resources.

Which cloud layer would be considered the foundation of the cloud?

The Infrastructure layer

The infrastructure layer is considered the foundation of the cloud. It consists of physical resources that are housed in regions, zones and data centers.

VMware, ESXi, Microsoft Hyper-v and open-source KVM are some examples of which type of hypervisor?

Type 1

VMware, ESXi, Microsoft Hyper-v, and open-source KVM are examples of a type 1 hypervisor.

What are the characteristics of a region?

A region has a name such as NA South or US East; is isolated from other regions, so if one was impacted by a natural disaster, the cloud operations in others would continue to function; and is a geographic area or location where a cloud provider's infrastructure is clustered.

What is the function of a hypervisor?

Pulls resources from the physical server and allocates them to a virtual environment

The function of a hypervisor is to pull resources from the physical server and allocate them to a virtual environment.

What type of server satisfies workload examples such as ERP, CRM, AI, deep learning and virtualization?

Bare metal

Bare metal servers satisfy workload examples such as ERP, CRM, AI, deep learning, and virtualization.

What would be a characteristic of both a bare metal server and a virtual server?

Provisioned with default storage in local drives

Both a bare metal and a virtual server are provisioned with default storage in local drives.

Virtual servers and virtual instances are two terms used synonymously in the IBM Cloud with which other term?

Virtual machines

Virtual machines is the term used synonymously with virtual servers and virtual instances in the IBM Cloud.

What is another name given to a Type 2 hypervisor?

Hosted

Type 2 hypervisors are also known as hosted.

What could be added to a network to enable users’ access to the application in the internet tier?

Public gateway

A public gateway is added to the network to enable users’ access to the application in the internet tier.

What is the main difference between deploying a network in an on-premises data center and deploying a cloud network?

Physical devices

The main difference is in the cloud, the logical instances of networking elements are used as opposed to the use of physical devices used in an on-premises facility.

Portability, scalability, streamlined development, and deployment of cloud-native applications and architectures are some of the advantages of which type of component?

Containers

The advantages of containers include portability, scalability, streamlined development, and deployment of cloud-native applications and architectures.