Azure AZ-900

Describe Cloud Concepts

- Describe the differences between categories of cloud services

Bread

Options

- **Make it yourself**
- **Buy a loaf**
- **Restaurant**

Categories of Cloud Services

Infrastructure as a Service (IaaS)

Rent virtual infrastructure such as computers, storage and networks to build a service

Common entry point for learning and moving to the cloud

Billed based on consumption

Platform as a Service (PaaS)

On-demand environments for developing, testing, and delivering applications

Quickly create apps and services without managing underlying infrastructure

Billed based on consumption

Software as a Service (SaaS)

Applications or services delivered over the internet

Ready-to-use applications available over the internet

Billed by per-user subscription

Cloud Computing
Use Case

| Hosted Applications | Deployment tools, database, management, analytics | Operating systems | Physical servers and storage | Physical network, firewalls, and security | Datacenter and location |

SaaS
- **Email**
- **Collaboration**
- **Customer relationship management**
- **Enterprise resource planning**
- **Document management**

PaaS
- **Development framework**
- **Production applications**
- **Analytics or business intelligence**
- **Automation services**

Serverless Computing

IaaS
- **Lift and shift migration**
- **Test and dev**
- **Storage, backup and recovery**
- **High-performance computing**

Serverless
Computing

Enables developers to create applications faster without the need to deploy infrastructure

- No infrastructure to manage
- Scalability
- Faster time to market
- Efficient use of resources

Shared
Responsibility
Model

The shared responsibility model defines the division of responsibility between the cloud provider and the customer for a given type of cloud service