**Summary:**  
\*\*Cloud Computing Terminology\*\*
\*\*Cloud\*\*
- Metaphor for the internet in cloud computing, referring to internet-based computing.
\*\*Cloud Services\*\*
- Applications, services, or resources available to users on demand via the Internet (IaaS, PaaS, SaaS, data storage).
\*\*Clusters\*\*
- A collection of interconnected stand-alone computers or servers working together as a single computing resource.
\*\*Containers\*\*
- A “wrapper” for software that allows it to travel between operating environments, creating a virtual instance of an OS that separates applications.
\*\*Hybrid Cloud\*\*
- Combination of traditional IT and public or private clouds, bound together by technology for data or application portability.
\*\*Infrastructure as a Service (IaaS)\*\*
- Outsourced computer infrastructure including servers, network, operating systems, and storage through virtualization.
- Preferred by startups and small companies to avoid the cost of buying and creating hardware and software.
\*\*Kubernetes\*\*
- Open-source platform for managing containerized workloads and services.
\*\*Multi-cloud\*\*
- Use of more than one public cloud, allowing enterprises to avoid dependency on a single cloud provider.
\*\*On Premise versus Off Premise\*\*
- On premise: Solution hosted in-house or in a company's own data center.
- Off premise: Hosted on dedicated hardware in a different location.
\*\*Platform as a Service (PaaS)\*\*
- Provides cloud components for software programs, offering a framework for developers to create customized applications.
- Includes development tools, database management, and business analytics.
\*\*Private Cloud\*\*
- Cloud infrastructure operated solely for one organization, managed either by the organization or a third party.
\*\*Public Cloud\*\*
- Available to the general public or a large industry, owned and managed by an organization selling cloud services.
\*\*Software as a Service (SaaS)\*\*
- Model of software deployment where online software is provided as a service to customers.
- Includes hosted subscription applications or web email, Google apps, Dropbox.
\*\*Virtualization\*\*
- Creation of a virtual version of something such as a server, desktop, storage device, operating system, or network resources.
\*\*Virtual Machine\*\*
- Software program or operating system that behaves like a separate computer, capable of running applications and programs.
\*\*Workload\*\*
- Discrete capability or amount of work to be run in the cloud, like serving up a website.