Networking







Deployment Models

- Public Cloud Using a service for the cloud
 - Services like AWS, Azure, etc...
- Private Cloud Internal to an organization
 - They only have access to the cloud
- Hybrid Cloud A mix of both public and private
- Community Cloud Different organizations sharing a cloud
 - Typically they use similar resources

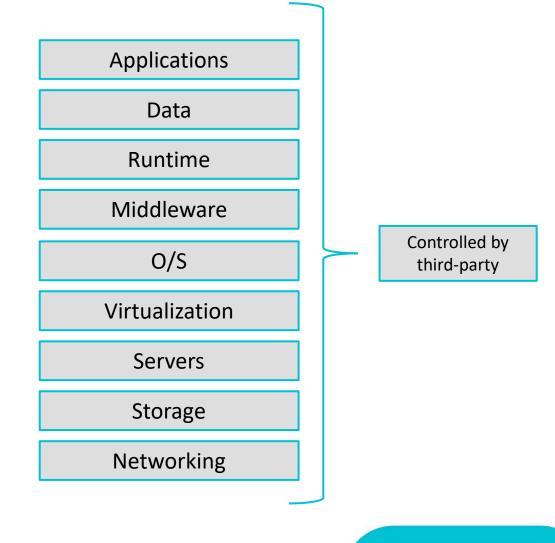






Software as a Service (SaaS)

- Third-party provider hosts the applications
 - Makes them available to the customer
- Also known as subscribeware
- Examples:
 - Slack
 - Office365
 - Google Suite

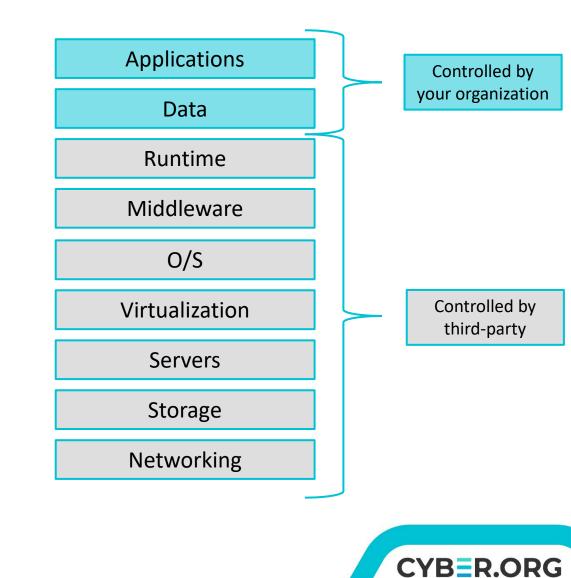


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Platform as a Service (PaaS)

- Third-party provider hosts platform
 - They also update the platforms and operating systems
- Organization still controls applications
 - They install/launch applications
- Also known as platform-based service
- Examples:
 - Azure
 - AWS
 - DynamoDB

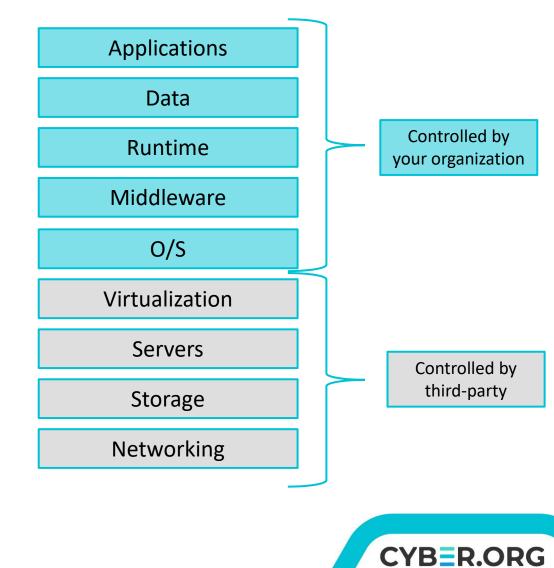




Infrastructure as a Service (laaS)

- Computing infrastructure is managed by a third-party
 - Outsourcing equipment and hardware
- The third-party is not responsible for software
 - Software installation and management still is the organization's responsibility
- Also known as Hardware as a service
- Examples:
 - AWS EC2
 - Openstack





Desktop as a Service (DaaS)

- Virtual Desktop to users
 - Created/supplied by third-party
- Persistent Desktops
 - User can customize
 - Saves the previous session
- Non-persistent
 - User cannot customize
 - Desktop resets every time
- Examples:
 - Oracle Data Cloud
 - Cloud Datastore
 - CouchDB





Infrastructure as Code (IaC)

- No physical hardware
 - All devices created virtually
- Data centers are managed and provisioned through machine-readable files
 - Rather than hardware or interactive tools
- Automate Automatically creating tools
- Orchestration Automatically deploying an infrastructure



