Microsoft Azure Fundamentals
Training Bootcamp

Azure Cloud Shared Responsibility Model

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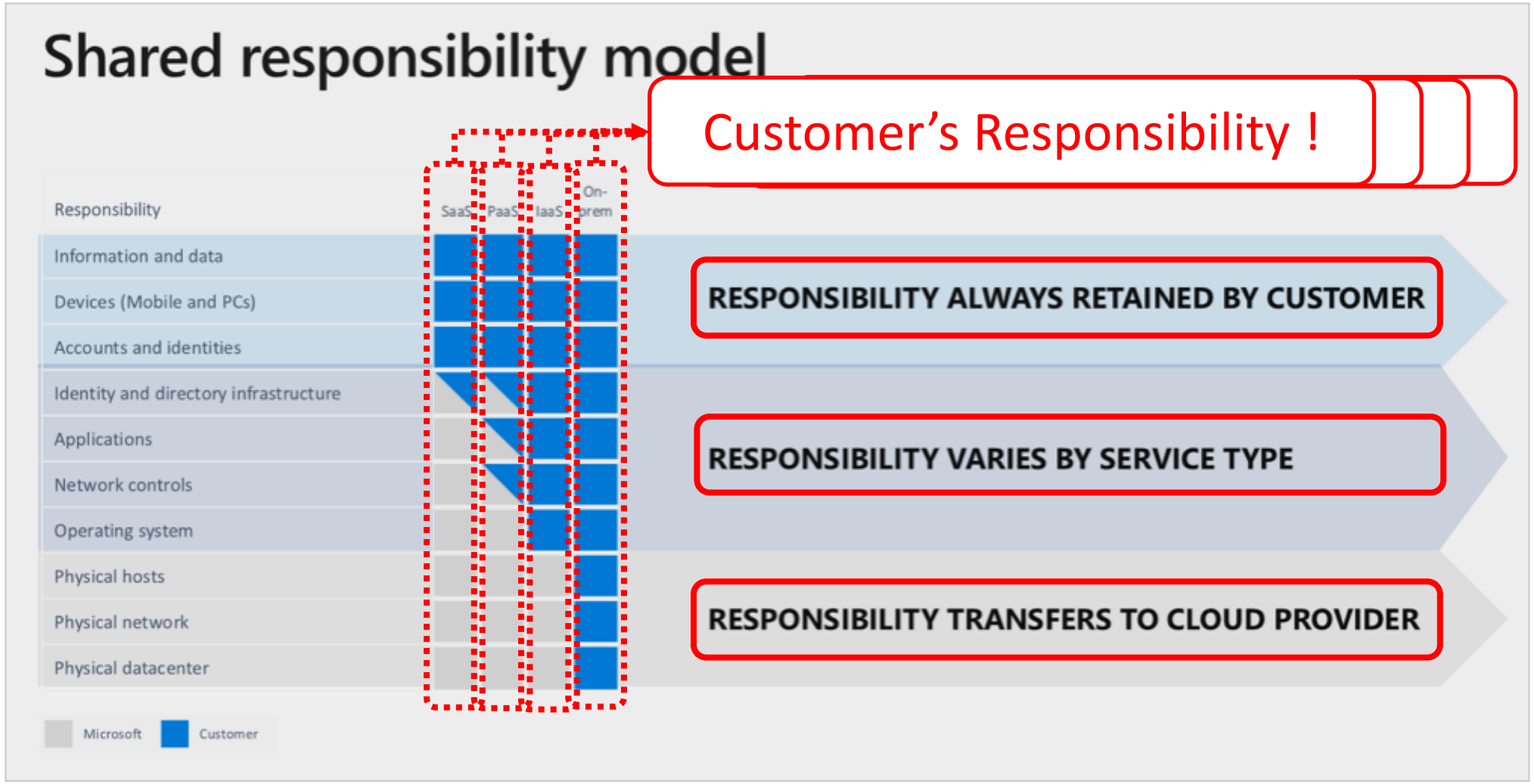
- Azure Cloud Shared Responsibility Model is a very important topic, for the Microsoft fundamentals exam, but also for real-world use cases

- When you hear cloud shared responsibility model, you must think SECURITY; it's about responsibilities and how you manage SECURITY in your cloud/hybrid environment

- In general, responsibility is shared between the cloud provider and the client and the responsibility level depends on type of apps and cloud deployment model

Security – A Shared Responsibility

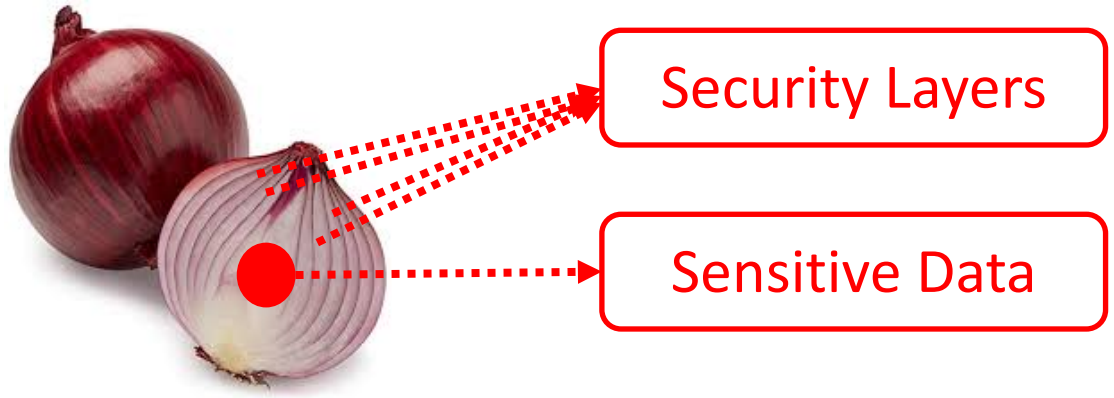


https://docs.microsoft.com/en-us/azure/security/fundamentals/shared-responsibility

Security – Layer over Layer over Layer

- The best way to implement security, in the cloud or traditional infrastructures, is to consider using multiple security layers

- As an example, if you try to imagine how a security architecture should look like, maybe it's not a bad idea to think how an onion looks like ☺



Deploy Security Using Layered Approach

- The first layer of defense is physical security
  - DC security, cameras, restricted access, etc.

- Next, you should implement identity and access-based security (SSO and MFA)
  - Control access based on identities
  - Grant minimum access
  - Keep track of events

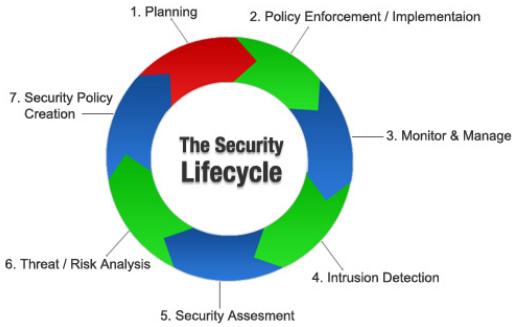
- Network perimeter security
  - DDoS protection and Firewall security

Deploy Security Using Layered Approach

- Restrict or Limit network connectivity
  - Deny inbound internet access
  - Limit connectivity between resources
  - Security to on-prem DC

- Security for Compute
  - Patch VMs, implement endpoint protection
  - Implement secure access to VMs

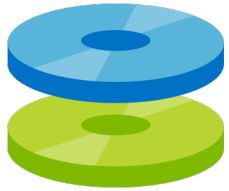
- Security for Applications
  - Integrate security in app dev lifecycle



Deploy Security Using Layered Approach

- Data security
  - Customer's responsibility
  - Many tools available

- Examples of Data to be protected:
  - Data stored in DBs
  - Data stored on disks (VMs)
  - Data stored in cloud storage



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Thank you