

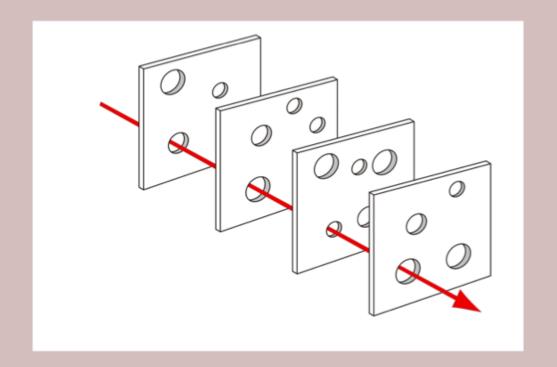


Defense in Depth

Security Architecture & Tool Sets

Defense in Depth

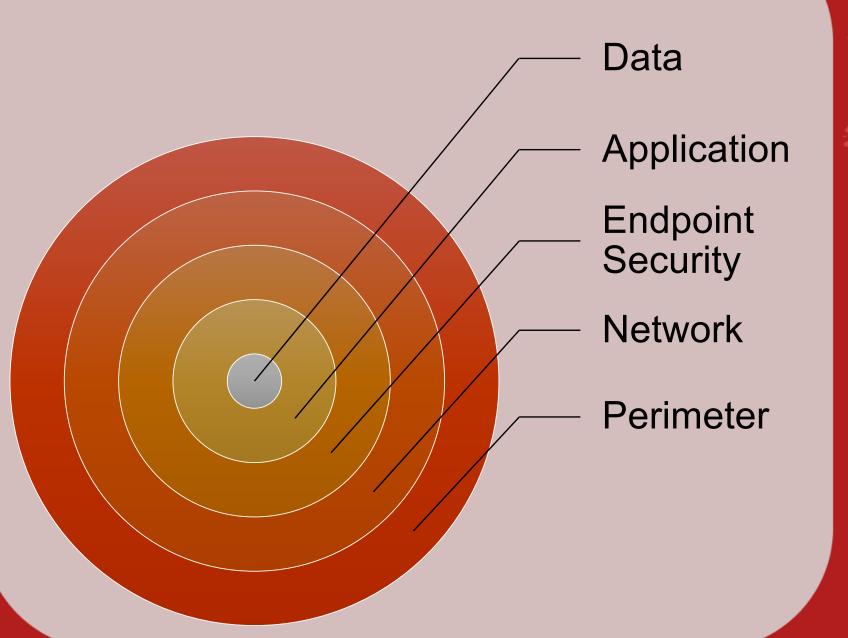
- Foundation of good security architecture
- Does not rely on a single defensive measure or control for protection







Layered Security Defense





Layered Security Defense

- Difficult to design and implement
- Must consider business needs and usability in the design of layered controls
- Four design models
 - Uniform Protection
 - Protected Enclaves
 - Risk or Threat Analysis-based
 - Information Classification-based

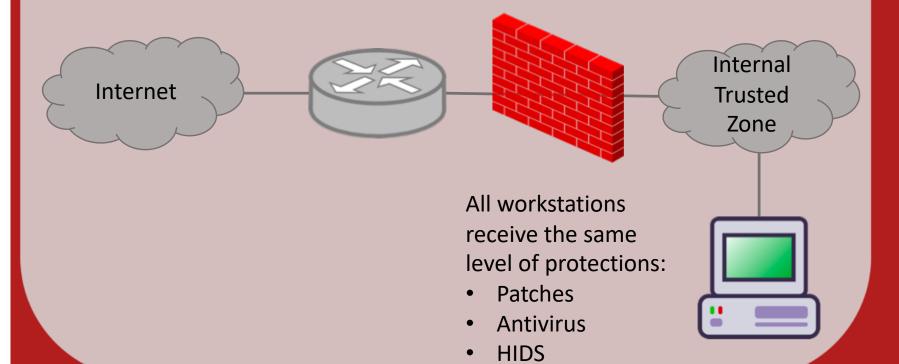




Uniform Protection

 Gives same level of protection to all data, systems, or networks

Can be expensive for larger networks

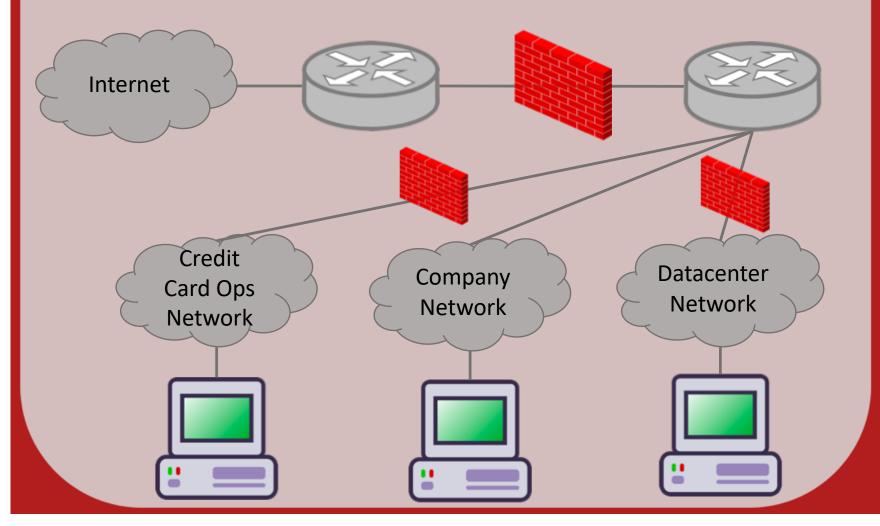






Protected Enclave

 Enclaves that house more sensitive data are given additional protections







Risk or Threat Analysis-based

 Addresses specific risks or threats in the design of the networks and systems

Example

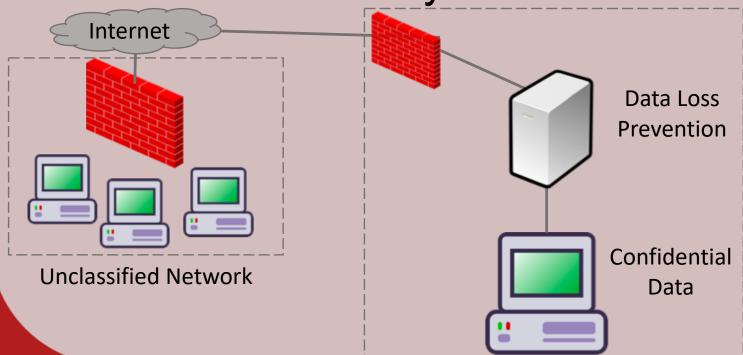
 If you are concerned with phishing as a threat vector, you could employ additional controls to securely scan and filter your incoming emails



Information or Classification-based

Map data protection to different classes of information

 Higher classification levels get additional attention and security controls







Combining Design Models

 Often, these four models are combined as opposed to picking a single model

