Cloud Service Models

- The NIST define three Service Models of how cloud services can be offered:
 - IaaS Infrastructure as a Service
 - PaaS Platform as a Service
 - SaaS Software as a Service
- Large cloud server providers offer multiple models



Cloud Service Models

- The three models define where the customer and provider areas of responsibility are, and at what level the customer gains access.
- The three models build on top of one another.



Data Center Stack

Data

Applications

Operating System

Hypervisor

Compute

Storage

Network



On Premise



Customer Manages



Provider Manages



Applications

Operating System

Hypervisor

Compute

Storage

Network



Colo



Provider Manages



Applications

Operating System

Hypervisor

Compute

Storage

Network



laaS Infrastructure as a Service



Provider Manages

Data **Applications Operating System Customer Gets Access at This Level Hypervisor** Compute **Storage Network Facility**



PaaS Platform as a Service



Customer Manages



Provider Manages



Applications

Operating System

Hypervisor

Compute

Storage

Network



PaaS Platform as a Service



Provider Manages

Data

Applications

Custom Environment

Customer Gets Access at This Level

Operating System

Hypervisor

Compute

Storage

Network



SaaS Software as a Service



Provider Manages

Applications
Operating System
Hypervisor
Compute

Customer Gets Access at This Level

Storage

Network



