



TYPES OF CLOUD COMPUTING

ROADMAP


- **Service models**
- **Deployment models**
- **Horizontal vs. Vertical scaling**

Software as a Service (SaaS)

Nist definition of SaaS:

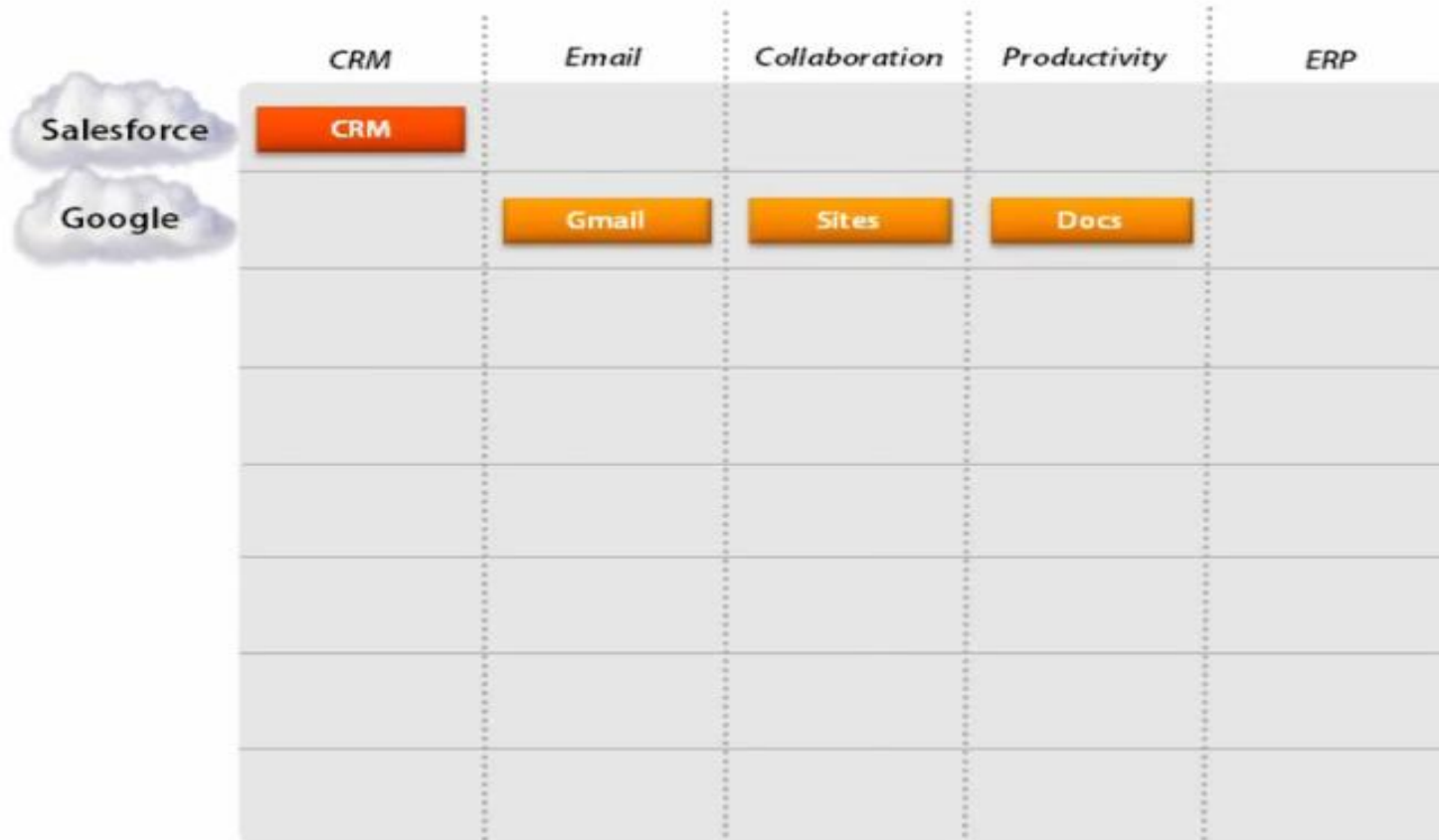
The Capability provided to the consumer is to use the provider's applications running on a cloud infrastructure. The applications are accessible from various client devices.

SaaS Examples



<i>CRM</i>	<i>Email</i>	<i>Collaboration</i>	<i>Productivity</i>	<i>ERP</i>
CRM				

SaaS Examples








The diagram illustrates SaaS examples categorized by provider and function. It features a grid with columns for CRM, Email, Collaboration, Productivity, and ERP. Salesforce is associated with the CRM category, and Google is associated with Email, Collaboration, and Productivity. Specific SaaS products are placed within the grid cells: CRM (Salesforce), Gmail (Google), Sites (Google), and Docs (Google).

	<i>CRM</i>	<i>Email</i>	<i>Collaboration</i>	<i>Productivity</i>	<i>ERP</i>
Salesforce	CRM				
Google		Gmail	Sites	Docs	

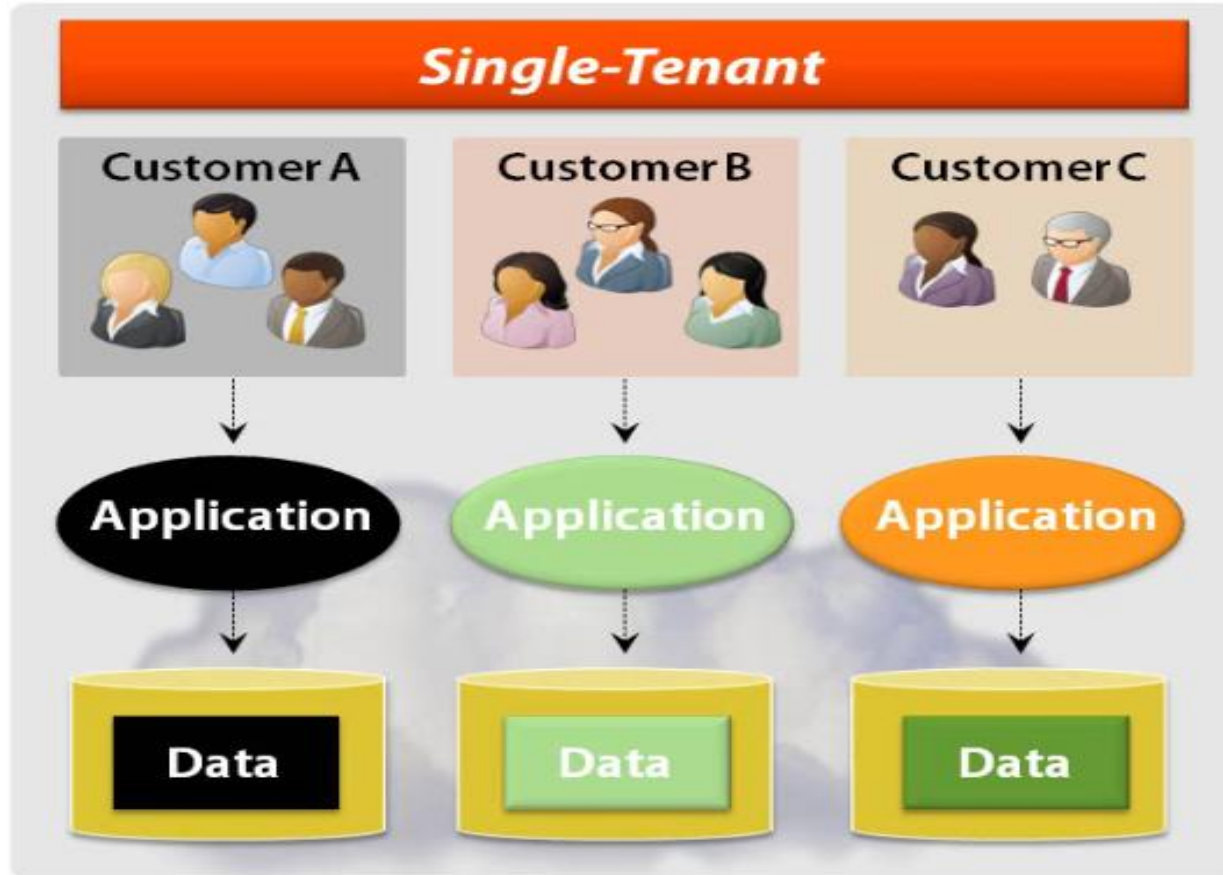
SaaS Examples



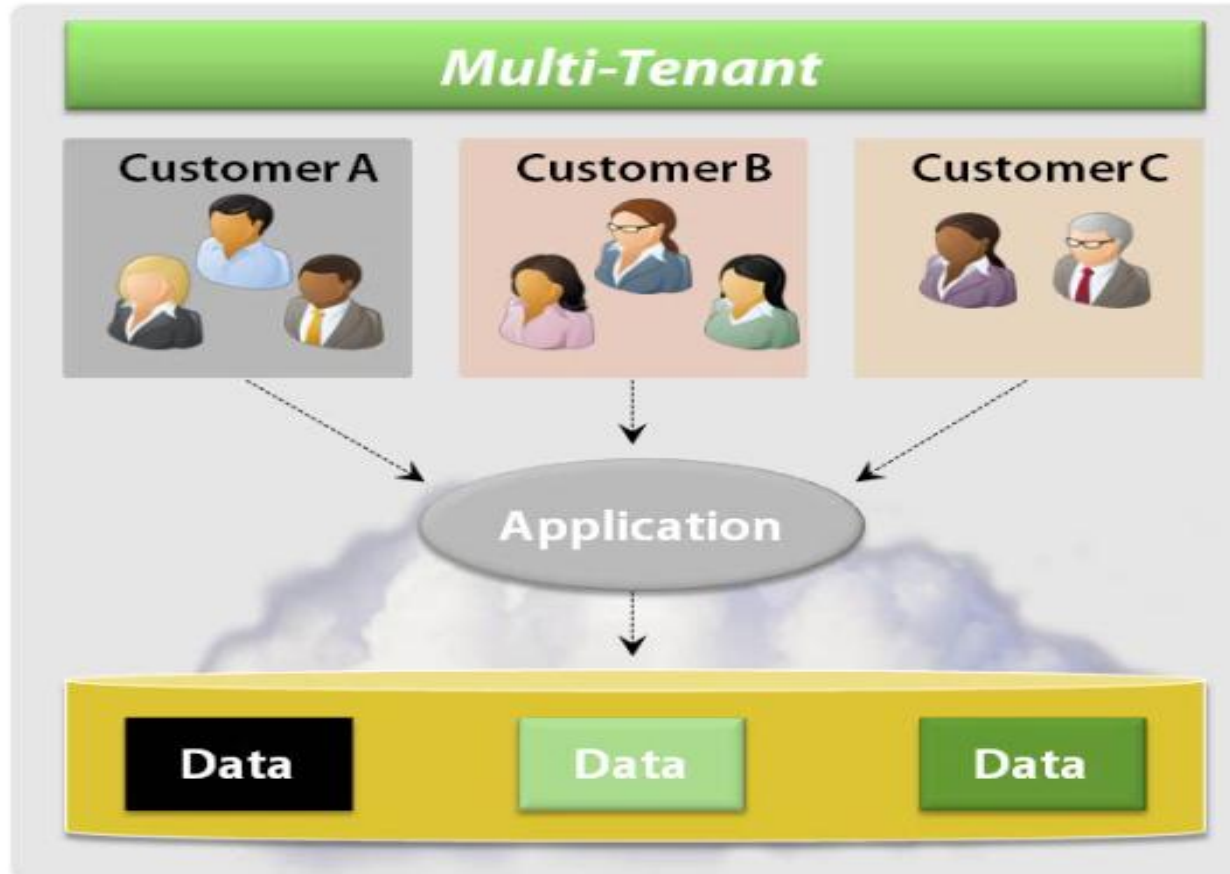
SaaS Examples

	CRM	Email	Collaboration	Productivity	ERP
 Salesforce	CRM				
 Google		Gmail	Sites	Docs	
 Microsoft	Dynamics CRM Online	Exchange Online	SharePoint Online	Office Web Apps	
SAP					Business ByDesign
IBM			Lotus Live		
Oracle	Fusion CRM				
 NetSuite	CRM+				ERP
 Zoho	CRM	Mail	Docs ...	Writer ...	

SaaS Options: Single-Tenant Applications



SaaS Options: Multi-Tenant Applications



Platform as a Service (PaaS)

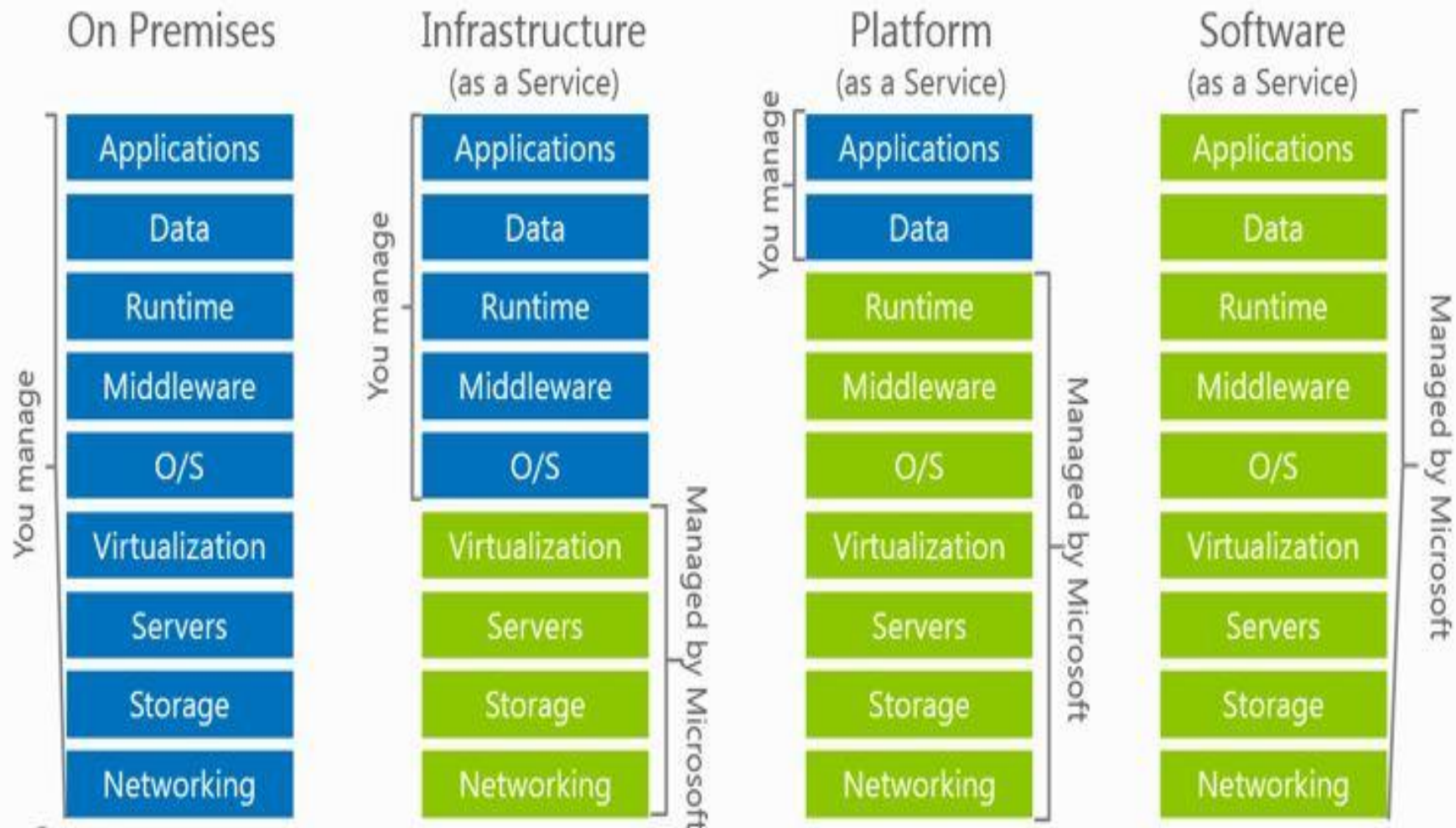
NIST definition of PaaS:

The capability provided to the consumer is to deploy on to the cloud infrastructure consumer-created or acquired applications created using programming languages, libraries, services, and tools supported by the provider.

Infrastructure as a Service (IaaS)

NIST definition of IAAS:

The capability provided to the consumer is to provision processing, storage, networks, and other fundamental computing resources where the consumer is able to deploy and run arbitrary software, which can include operating systems and applications.



PRIVATE CLOUD

Private cloud: The cloud infrastructure is provisioned for exclusive use by a single organization comprising multiple consumers (e.g., business units). It may be owned, managed, and operated by the organization, a third party, or some combination of them, and it may exist on or off premises.

COMMUNITY CLOUD

Community cloud: The cloud infrastructure is provisioned for exclusive use by a specific community of consumers from organizations that have shared concerns (e.g., mission, security requirements, policy, and compliance considerations). It may be owned, managed, and operated by one or more of the organizations in the community, a third party, or some combination of them, and it may exist on or off premises.

PUBLIC CLOUD

Public cloud: The cloud infrastructure is provisioned for open use by the general public. It may be owned, managed, and operated by a business, academic, or government organization, or some combination of them. It exists on the premises of the cloud provider.

HYBRID CLOUD

Hybrid cloud: The cloud infrastructure is a composition of two or more distinct cloud infrastructures (private, community, or public) that remain unique entities, but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load balancing between clouds).



Thank you

Collabera