

# CLOUD COMPUTING AND M4D

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Software as a Service Cloud

**A SERVICE MODEL BASED VARIANT**

# Software as a Service (SaaS)

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- NIST\* definition describes it as:
  - “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** through a thin client interface such as a web browser (e.g., web-based email)”

*\*NIST = National Institute of Standards and Technology*

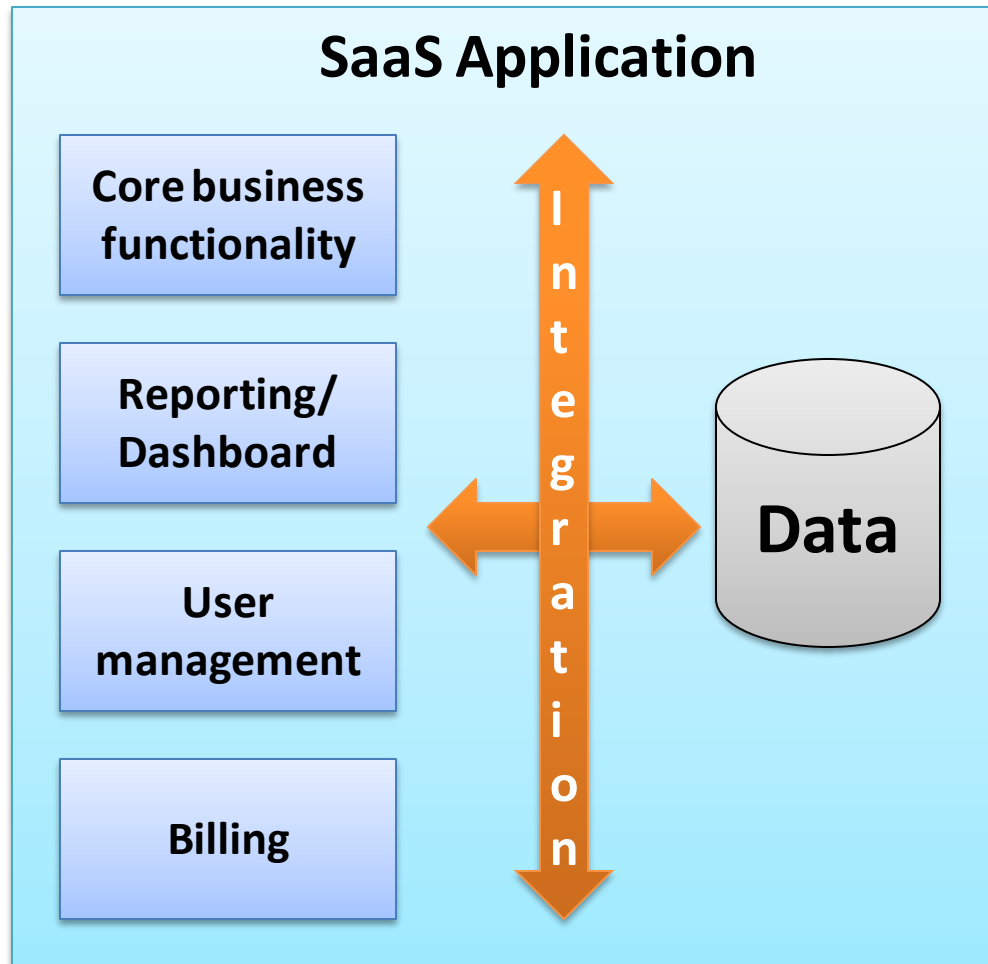
# SaaS Examples

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- Google Sites
  - Customizable websites, e.g. can add gadgets
  - Integrated with Google services
- rSmart Sakai Learning Management System
  - A feature rich LMS
  - Online class interactions or projects collaborations
- Youtube video streaming
  - Create and manage video channels
  - Edit/enhance videos
  - Analytics

# SaaS Architecture

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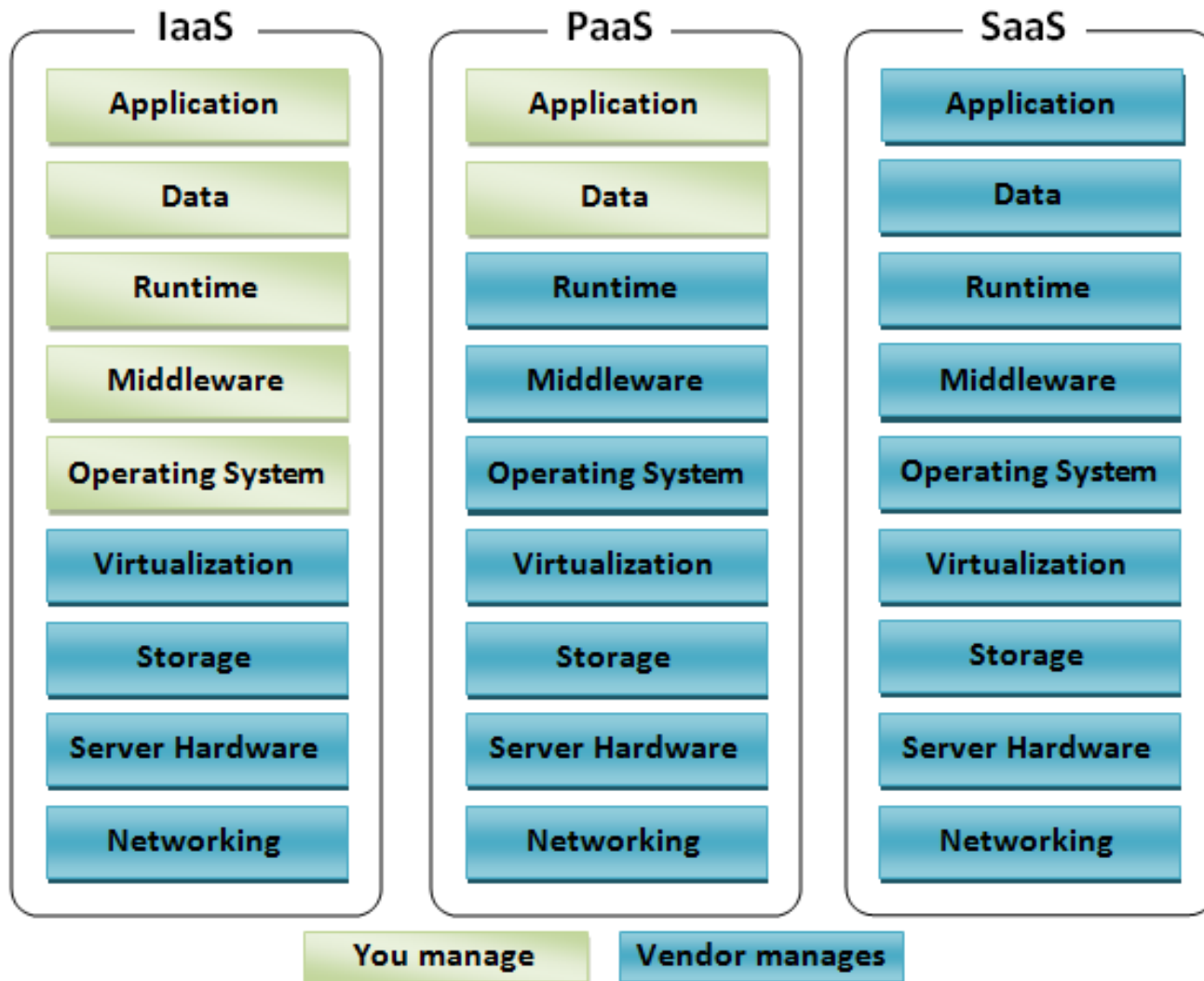


# SaaS Cloud Characteristics

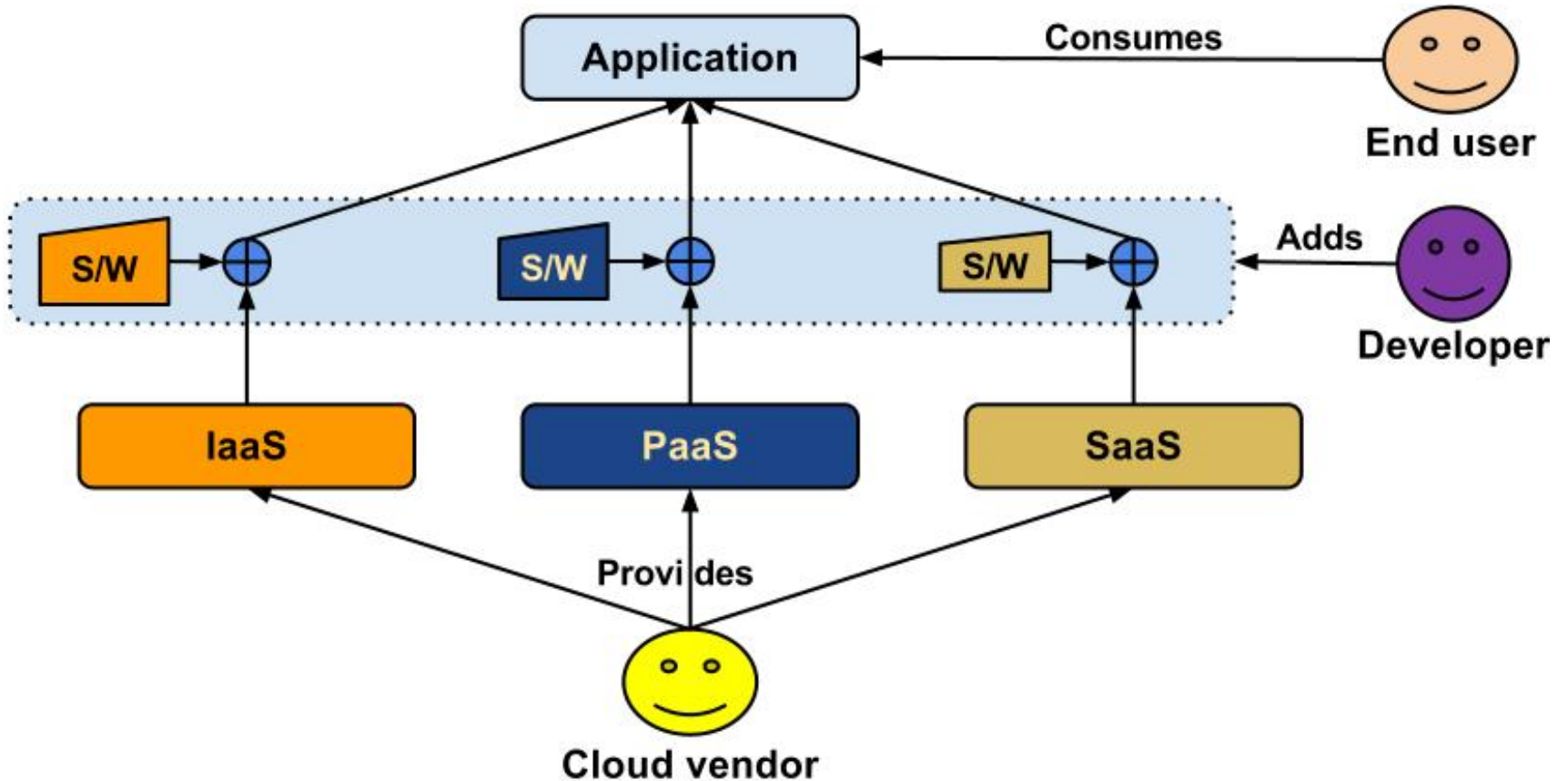
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- No control of underlying infrastructure
  - Network, servers, operating systems, storage, or individual application capabilities
- Allows control of a limited set of user-specific application configuration settings
- Typically no programming is needed
- User generated data can be exploited by cloud provider
  - Privacy is often an issue

# IaaS/PaaS/SaaS Side-by-Side



# Dependency View for XaaS





# THANK YOU



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