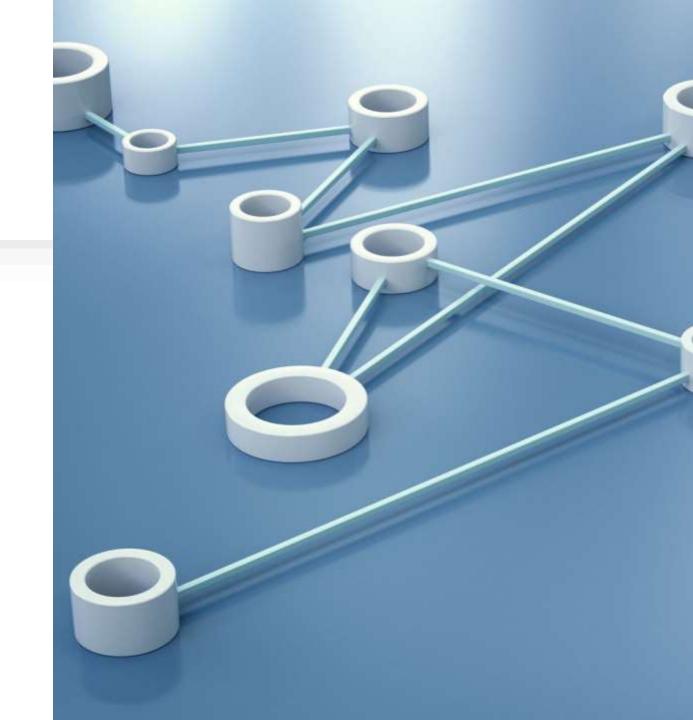


Understanding the SaaS Model, Examples, and Areas of Application

Topic 4 Software as a
Service (SaaS)

Introduction to SaaS

- SaaS (Software as a Service) is a cloud computing model where applications are hosted by a provider and made available to users over the internet.
- Key features:
 - No need for installation
 - Subscription-based pricing
 - Access from any device with internet
 - Provider manages infrastructure and updates



Evolut ion of Softwa re Delive



Traditional Model:

Buy a license, install software on a local machine.



SaaS Model: Access software through a web browser, pay as you go.

SaaS Architectur e



Multi-Tenancy: A single instance serves multiple customers.

Scalability: Can handle thousands of users without performance drop.



Automatic Updates: No manual upgrades needed.



Security & Compliance: Data encryption and access control managed by the provider.

SaaS VS Other Cloud Models

Feature	SaaS	PaaS	IaaS
Example	Gmail, Dropbox	Heroku, Google App Engine	AWS EC2, DigitalOce an
User Control	Least	Medium	Most
Maintenance	Managed by provider	User manages applicatio ns	User manages OS & apps
Use Case	Software applications	App developmen t	Infrastruc ture for hosting

Benefits of SaaS

Cost-Effective: No upfront software purchase.

Accessibility: Use from any device, anywhere.

Scalability: Grow or shrink user base easily.

Security: Handled by professionals.

No Maintenance: No need to update or patch software.

Challenges of SaaS



INTERNET DEPENDENCY:

NO INTERNET = NO ACCESS.



LIMITED
CUSTOMIZATION: SOME

SAAS APPS HAVE RESTRICTIONS.



SECURITY CONCERNS:

DATA IS STORED BY A
THIRD-PARTY
PROVIDER.



VENDOR LOCK-IN:

DIFFICULT TO MIGRATE TO ANOTHER PROVIDER.

SaaS Pricing Models







PAY-AS-YOU-GO (USAGE-BASED) - AWS LAMBDA,
TWILIO



FREEMIUM (BASIC FREE, PAID PREMIUM FEATURES)

- DROPBOX, SLACK

Examples of SaaS Applications



Productivity

SaaS Orkspace (Docs, Sheets, Slides)

Microsoft 365

Dropbox



CRM SaaS

Salesforce HubSpot

Zoho CRM

Examples of SaaS Applications



Communication SaaS

Zoom

Microsoft Teams

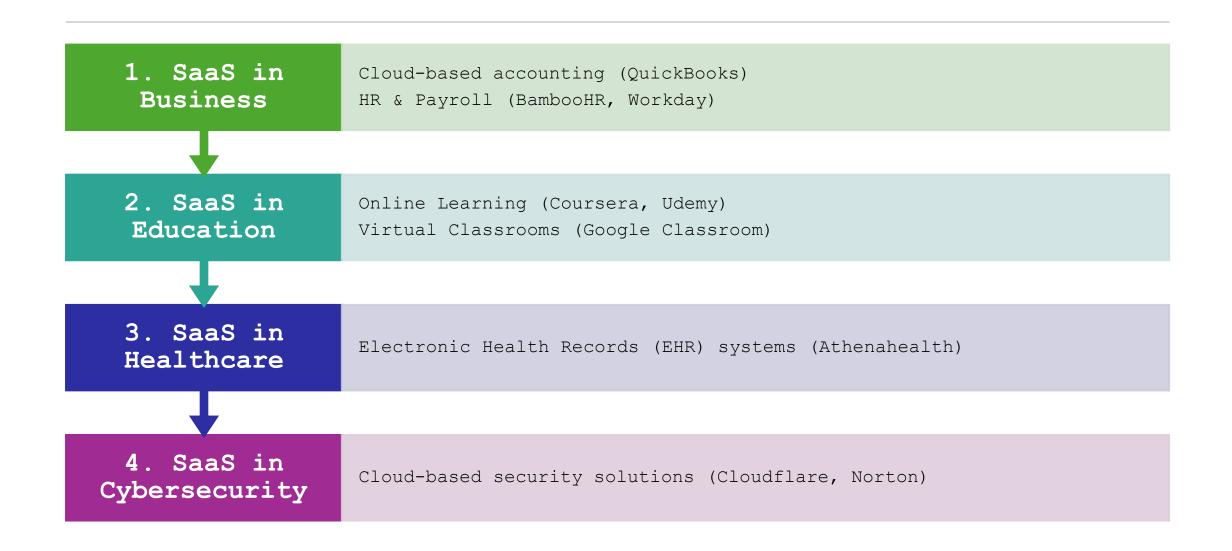


E-commerce SaaS

Shopify BigCommerce

Wix

SaaS in Different Areas



Choosing the Right SaaS Solution

• Factors to Consider:

- Pricing & Scalability
- Security & Compliance
- Integrations with other software

Risks & Security Concerns



Data Privacy:
Ensure GDPR &
 compliance.



Downtime Risks:
Choose reliable
providers.



Cybersecurity
Threats: Use MFA,
encryption.

End of Topic 4

"The cloud is about how you do computing, not where you do computing."

- Paul Maritz, Former CEO of VMware

