

Cloud Computing

What is Cloud

Types of Cloud

Deploy Cloud Computing

CLOUD COMPUTING

Created By:
Talib Ahmed Siddiqui

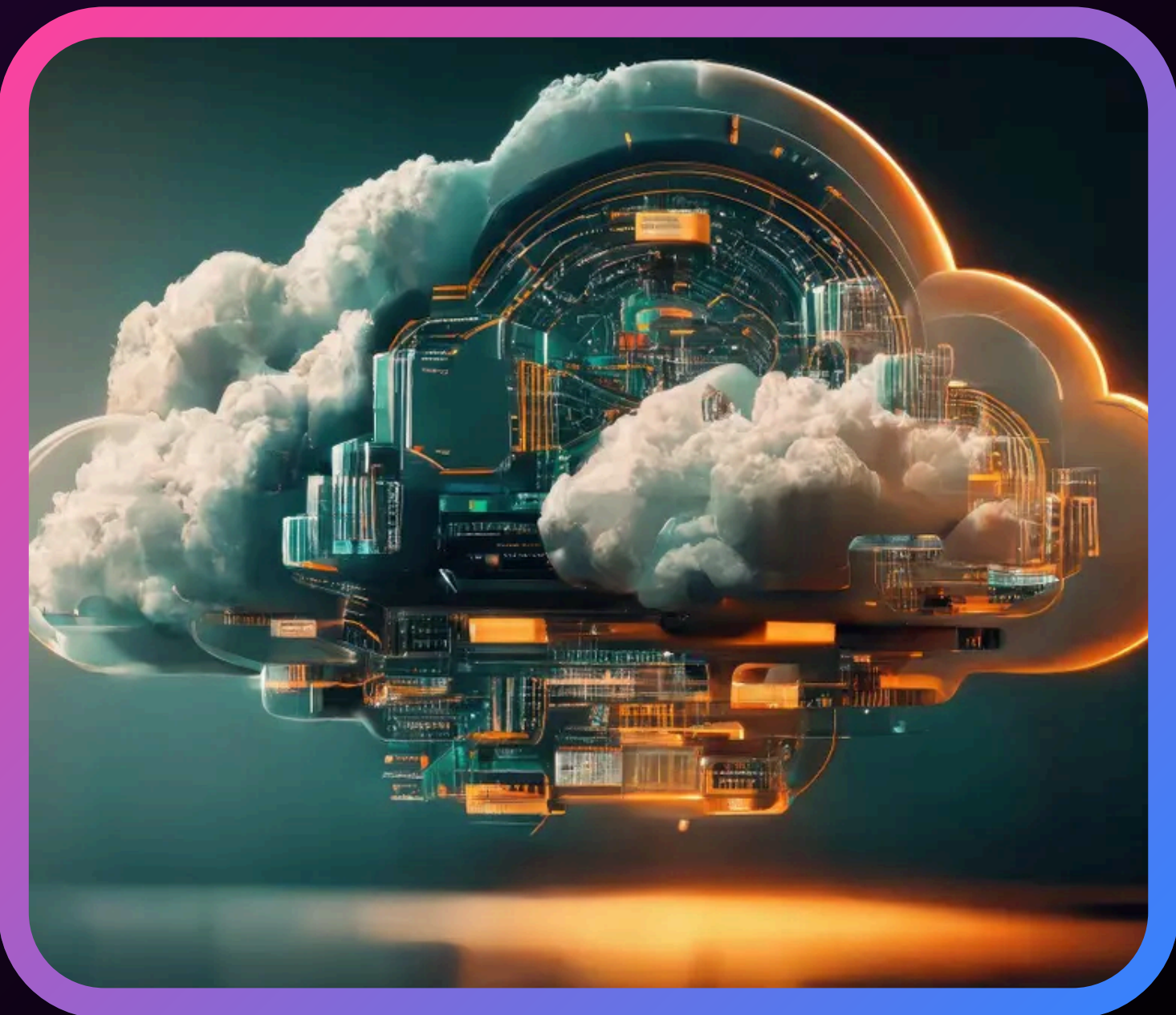
Covered In Slide

Context:

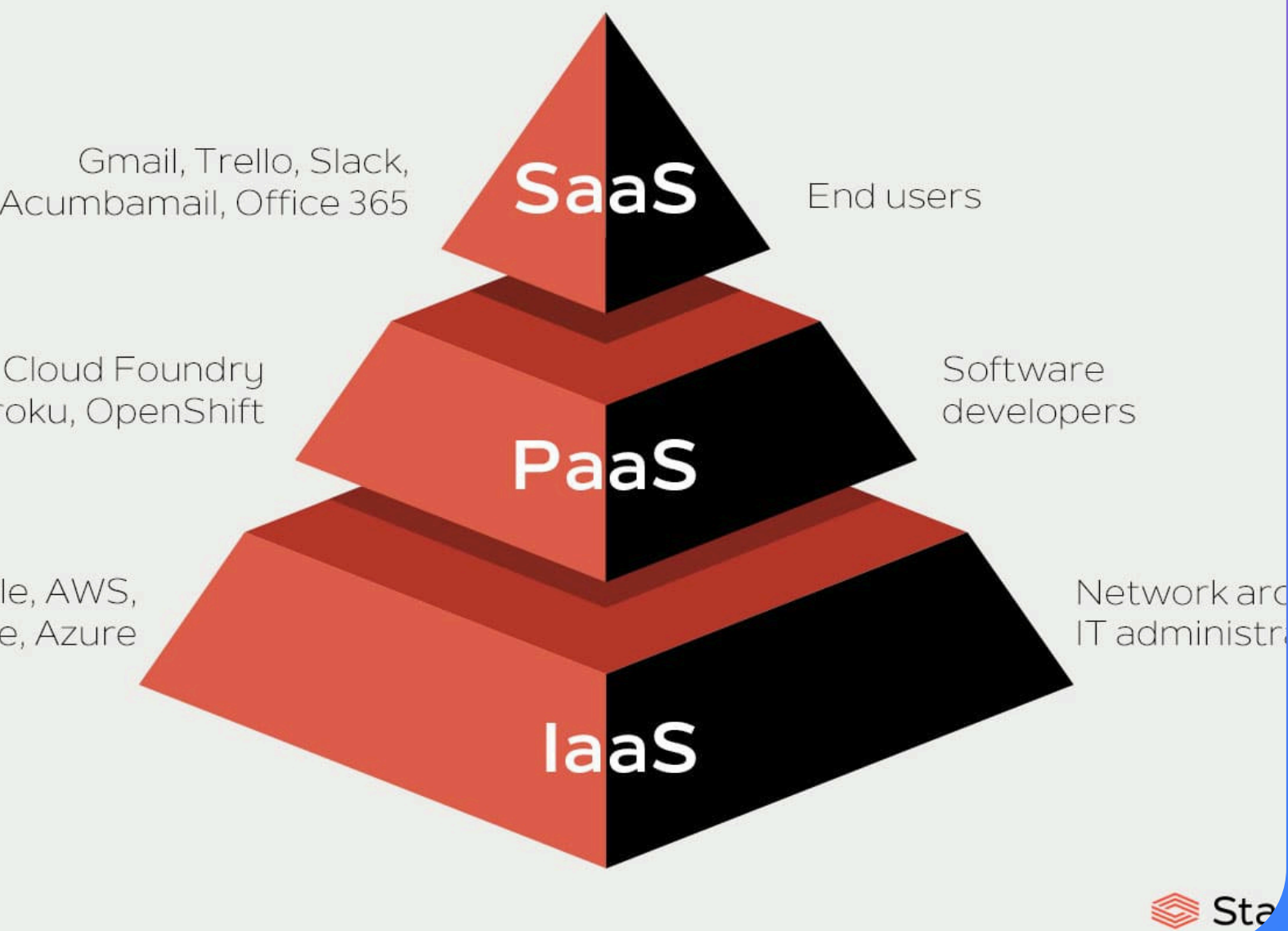
- What is Cloud Computing
- Types of Cloud Computing(IaaS, PaaS, SaaS)
- How to deploy Cloud Computing Models. (Models: Public, Private, Hybrid & Community)

What is Cloud?

"The cloud" refers to servers that are accessed over the Internet, and the software and databases that run on those servers. Cloud servers are located in data centers all over the world. By using cloud computing, users and companies do not have to manage physical servers themselves or run software applications on their own machines.



Cloud service models



Types of Cloud Computing

In Cloud Computing there are mainly 3 types. Those are IaaS, PaaS, SaaS.

- Infrastructure as a Service (IaaS): Provides virtualized computing resources over the internet. Example: Amazon Web Services (AWS) EC2, which lets users rent virtual servers.

- Platform as a Service (PaaS): Offers a platform allowing developers to build, deploy, and manage applications without handling the underlying infrastructure. Example: Google App Engine, which simplifies app development and deployment.
- Software as a Service (SaaS): Delivers software applications over the internet on a subscription basis. Example: Microsoft 365, which provides access to productivity tools like Word and Excel online.

How to deploy cloud computing (models: Public, Private, Hybrid, & Community).

HYBRID

Combination of cloud deployment models

COMMUNITY

Manufacturing organization shares cloud with other organizations with similar interests

PUBLIC

Manufacturing organization shares cloud with general public

PRIVATE

Manufacturing organization has its own private cloud



Deploying cloud computing involves choosing the right model based on your needs:

1. **Public Cloud:** Services are offered over the internet by third-party providers and shared across multiple organizations. Example: Deploying applications on Amazon Web Services (AWS) or Microsoft Azure for broad accessibility and scalability.
2. **Private Cloud:** Infrastructure is dedicated to a single organization, providing enhanced security and control. Example: Setting up a private cloud with VMware solutions within your own data center.

3. Hybrid Cloud: Combines public and private clouds, allowing data and applications to be shared between them for greater flexibility and optimization. Example: Using a private cloud for sensitive data while leveraging public cloud services for less critical applications.
4. Community Cloud: Shared by multiple organizations with similar interests or requirements, often managed by a third party. Example: A government agency and its contractors using a shared cloud environment for collaborative projects and data sharing.

THANK YOU