



# Cloud Computing Security

By

**Asst.L. Mohamed A. Abdul Hamed**

University of Basra

College of Computer Science and Information Technology

Computer Science Department

# Overview

# Introduction

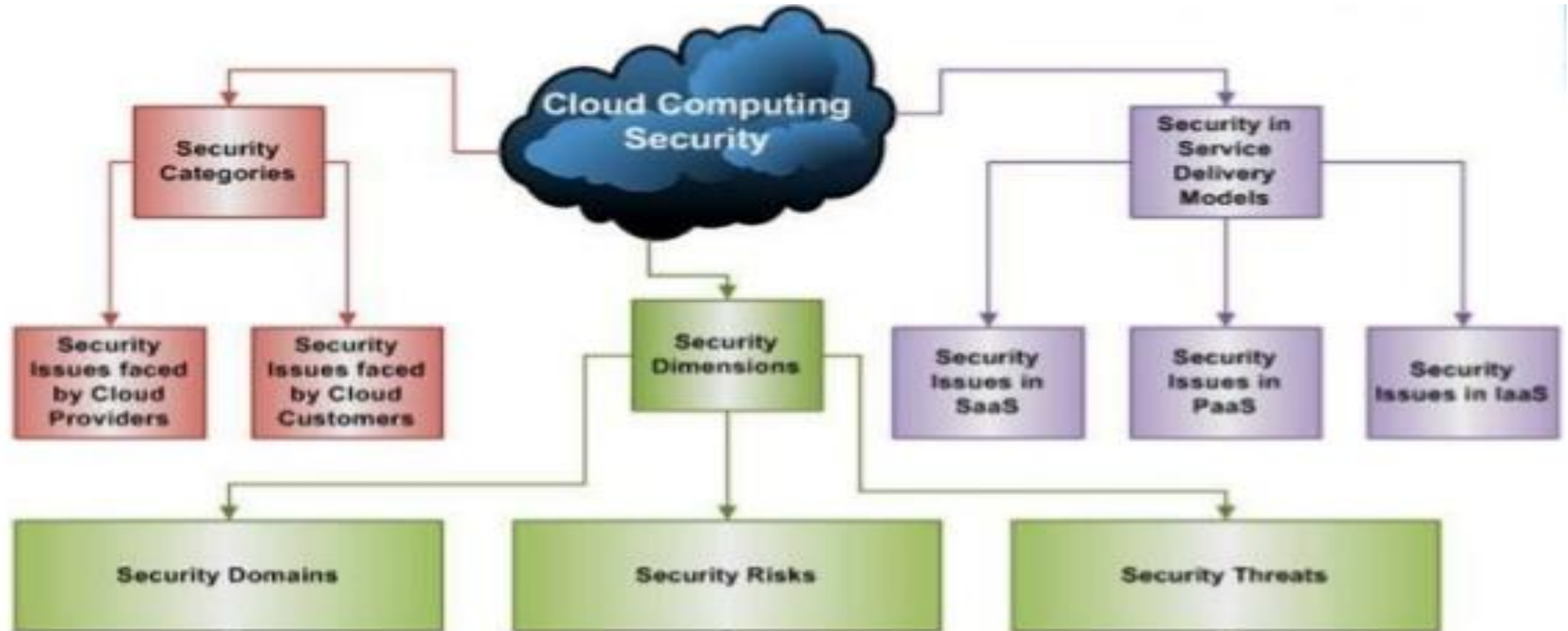
- Cloud security, also known as **cloud computing security**, consists of a set of policies, controls, procedures and technologies that work together to protect cloud-based systems, data and infrastructure.
- These security measures are configured to protect data, support regulatory compliance and protect customers' privacy as well as setting authentication rules for individual users and devices.
- From authenticating access to filtering traffic, cloud security can be configured to the exact needs of the business.
- And because these rules can be configured and managed in one place, administration overheads are reduced and IT teams empowered to focus on other areas of the business.

# Cloud computing security definition

- **Cloud computing security** or, more simply, **cloud security** : refers to a broad set of policies, technologies, applications, and controls utilized to protect virtualized IP, data, applications, services, and the associated infrastructure of cloud computing. It is a sub-domain of computer security, network security, and, more broadly, information security.



# Cloud computing security Issues



# Why is Cloud Security Important?

- For businesses making the transition to the cloud, robust cloud security is imperative.
- Security threats are constantly evolving and becoming more sophisticated, and cloud computing is no less at risk than an on-premise environment.
- For this reason, it is essential to work with a cloud provider that offers best-in-class security that has been customized for your infrastructure.

# Benefits of Cloud security

- Cloud security offers many benefits, including:

## **1. Centralized security:**

- Just as cloud computing centralizes applications and data, cloud security centralizes protection.
- Cloud-based business networks consist of numerous devices and endpoints.
- Managing these entities centrally enhances traffic analysis and filtering, streamlines the monitoring of network events and results in fewer software and policy updates.
- Disaster recovery plans can also be implemented and actioned easily when they are managed in one place.

# Benefits of Cloud security

## 2. Reduced costs:

- One of the benefits of utilizing cloud storage and security is that it eliminates the need to invest in dedicated hardware.
- Not only does this reduce capital expenditure, but it also reduces administrative overheads.
- Where once IT teams were firefighting security issues reactively, cloud security delivers proactive security features that offer protection 24/7 with little or no human intervention.



# Benefits of Cloud security

## **3. Reduced Administration:**

- When you choose a reputable cloud services provider or cloud security platform, you can kiss goodbye to manual security configurations and almost constant security updates.
- These tasks can have a massive drain on resources, but when you move them to the cloud, all security administration happens in one place and is fully managed on your behalf.

## **4. Reliability:**

Cloud computing services offer the ultimate in dependability. With the right cloud security measures in place, users can safely access data and applications within the cloud no matter where they are or what device they are using.







# References

- **Book by Realtime publisher, 'Dan Sullivan', 'The Definitive Guide to Cloud Computing'.**
- **Web site : <https://www.forcepoint.com/cyber-edu/cloud-security>.**
- **Web site : <https://websitetoon.com>.**