

Algerian Cyber Security Forum

Public Cloud & Security challenge

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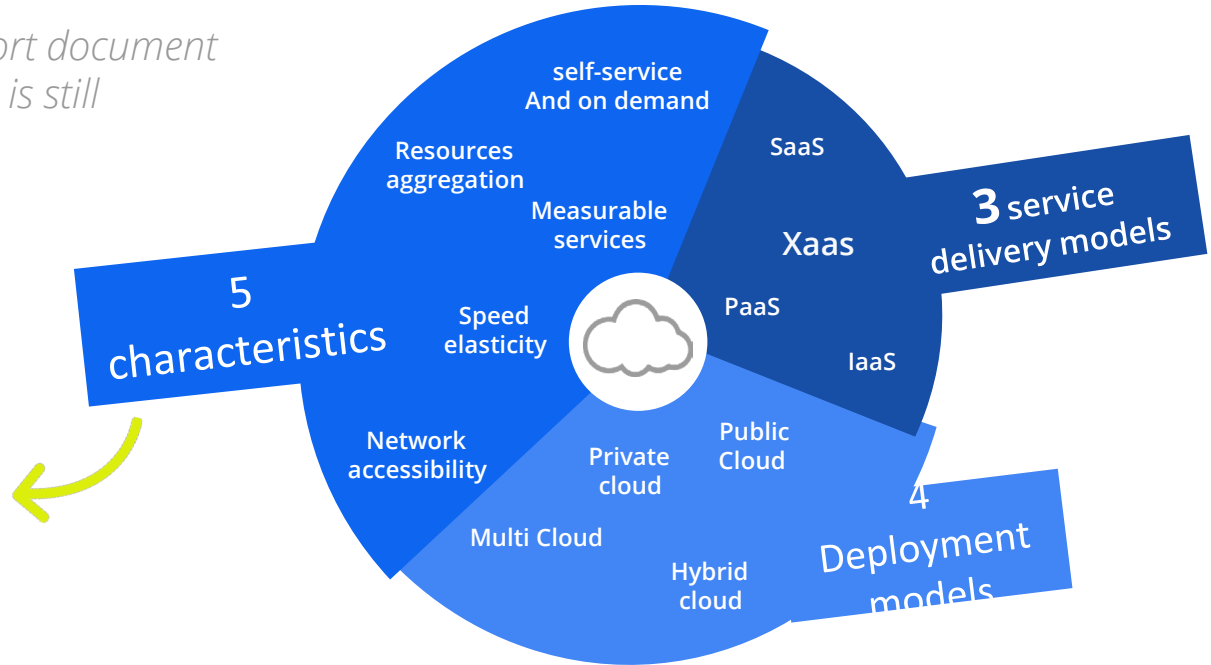
What is Cloud computing ?

National institute of standards and technology (NIST) Cloud definition

In 2011, the NIST publishes a short document defining the cloud, this definition is still recognized by the industry today

Cloud computing is a way of delivering IT services

Resources are shared and accessible in the form of services directly usable by clients



How Cloud helps business



Achieve what isn't possible on premises.

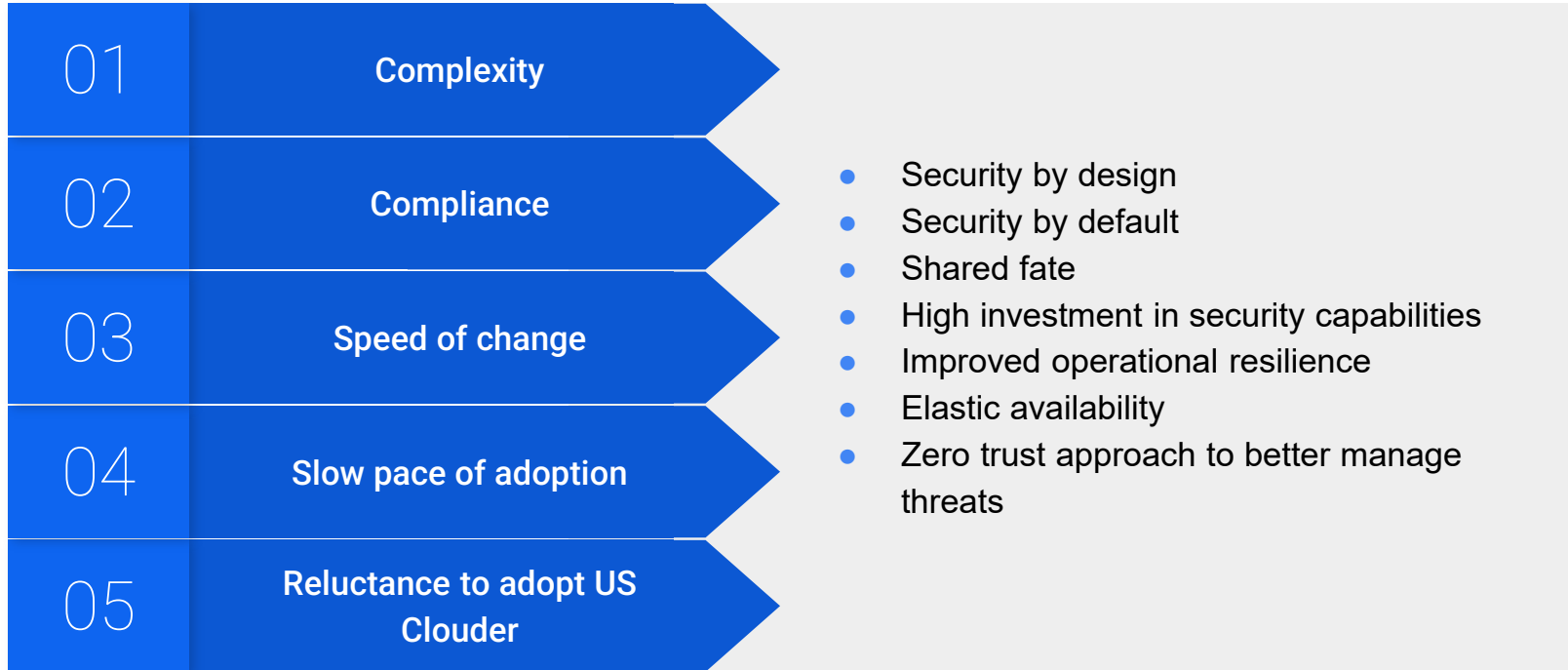
Gain greater security, agility, resilience, capacity, and business goal alignment, plus significant cost savings.

Deliver substantial business value.

Increase the relevance of cloud to commercial objectives as more leaders and teams drive cloud adoption.

Realize business benefits
with cloud adoption.

Top concerns risks and security in the Cloud



Approach to cloud security and trust

1

Resource Management

- Google Cloud org hierarchy
- Environments & application lifecycle
- Project creation
- Resource provisioning
- Organization policies**

2

Identity and Access Management

- User & group management
- Administrative roles
- Authentication
- Assigning IAM roles
- Service accounts
- Monitoring privilege changes

3

Network Security

- VPC architecture
- Firewall rules
- Network logging
- VPC service controls
- DDoS and WAF
- Identity Aware Proxy

4

VM Security

- VM identity
- Remote access
- VM Image management

5

Data Security

- Encryption key management
- Cloud Storage security
- CloudSQL security
- Data Loss Prevention
- Data governance

6

Security Operations

- Logging
- Monitoring
- Policy scanning
- Vulnerability management
- Incident response

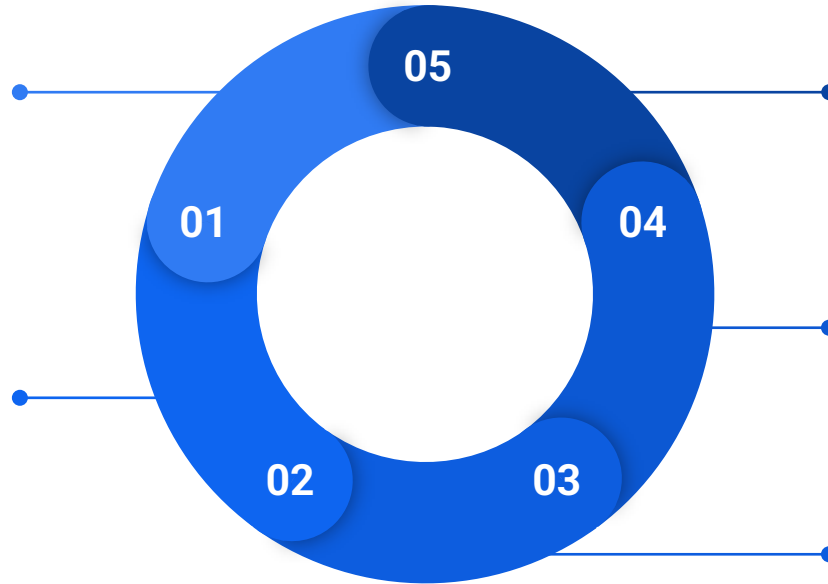
Security topics supporting a safe cloud journey

Security and resiliency Framework

Deliver a foundational, risk-based Cloud framework mapped to cybersecurity standards to drive standardization.

Automated security operations

Protect your business from compromise with exceptional threat management delivered through a modern, cloud-native stack.



Zero Trust Framework

Security model that eliminates the notion of trust to protect networks, applications and data, unlike the perimeter security model.

Risk and Compliance as code

Enable compliance and security control automation with Cloud products, blueprints, partner integrations, and workshops.

Cyber Recovery

Recover from attacks in minutes, not days or weeks, by leveraging cyber-recovery solution



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