CLOUD SECURITY OVERVIEW
Benefits to your Organisation

THE BENEFITS

There are many benefits to organisations, both large and small, moving to the Cloud. There remains, however fundamental issues around:

- **Where is the data stored? (including back-ups)**
- **Who has access to the data?**
- **The possibility of insider threat**
- **Jurisdictional overreach**
- **The use of embedded encryption technologies**

These security vulnerabilities can be mitigated to ensure organisations can operate securely within the cloud, with the understanding that they have full control and access over their data.

Traditional security tools aren't enough to monitor data moving to and from the cloud and between cloud platforms. There are however several cloud security tools that have been developed to address the challenges of maintaining control of your data in the cloud.

"Organisations can operate securely within the cloud, with the understanding that they have full control and access over their data"

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BENEFITS OF MOVING TO THE CLOUD

The "Cloud" offers many advantages over traditional on premises solutions such as:

- **Lower cost**
- **Reduction in expertise required to manage these services**
- **Geodiversity where this did not previously exist in an organisation**
- **Ease of deployment**
- **Ability to scale rapidly**
- **Allows organisations to focus on core business, not the tools that assist in delivering core functions**
- **Require less time consuming and costly implementations and maintenance activities**

SECURITY ISSUES MOVING TO THE CLOUD

The "Cloud" however also presents some very real challenges to organisations around the security of the data stored there, such as:

- **Data theft that causes:**
  - **A loss of IP**
  - **Compromising the commercial interests of an organisation. This can occur in private, commercial, or government contexts and can apply to such things as negotiations on the sale or purchase of products.**
- **Reputational damage through disclosure (e.g. the Sony hack)**
- **Data manipulation and compromise**
- **Subjecting a person or entity to the laws of a foreign jurisdiction**
- **The effective cessation of protections afforded to information by a local jurisdiction such as privacy and commercial disclosure laws**
- **National security concerns where the services are to be used by Government or their contractors**

PROTECT YOUR ORGANISATION FROM THREATS
INSIDE AND OUT

AWARD-WINNING TECHNOLOGY
PURPOSE-BUILT FOR AGILITY

JELLYFISH
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The prevalence of cloud however presents a number of other challenges for organisations such as:

- The use of unapproved cloud services (Shadow IT)
- The loss of data through disclosure to cloud service (i.e. data that was never meant to be put in the cloud).
- The loss of productivity through the overuse or unsanctioned use of cloud service

HOW CAN ORGANISATIONS BETTER PROTECT COMMON CLOUD SERVICES

Traditional security tools cannot optimally protect an organisations data in the cloud, for example they do not monitor data moving to and from the cloud and between cloud platforms. However, new and innovative cloud security solutions have been developed to address these vulnerabilities.

- Cloud Access Security Brokerage (CASB) which allow for organisations to extend their internal security policies to cloud services. This gives their cloud services similar levels of control over their data and access requirements that they would have for their internally hosted services.
- Encryption Services that cover both encrypting the data and the path, protecting the keys, BYOK, BYOE, HYOK, and Tokenisation.

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JELLYFISH CASB CAPABILITY

Next Generation Proxy Services

▪ TLS Decryption	✅
▪ Data Loss Prevention	✅
▪ Intrusion Detection System	✅
▪ Shadow IT discovery	✅
▪ Sanctioned IT usage	✅
▪ Analytics	✅
▪ UEBA	✅

Jellyfish Encryption Services

▪ Encryption Gateway Key Management	✅
▪ In Service Encryption	✅
▪ File & Folder Encryption	✅
▪ Virtual Machine Encryption	✅
▪ Database Encryption	✅
▪ Application Encryption (Cloud & On-Prem)	✅
▪ Tokenised Encryption	✅
▪ Transfer Encryption	✅
▪ Key Encryption and Diversification	✅
▪ BYOK & HYOK	✅

Jellyfish Identity and Access Management (IdAM)

▪ Provisioning, deprovisioning through SCIM	✅
▪ SSO	✅

Jellyfish CASB "Visibility" Services

▪ Analytics	✅
▪ Monitoring	✅
▪ Reporting	✅
▪ Log Storage	✅

Threat Detection Services

▪ Threat Intelligence	✅
▪ Malware Identification	✅
▪ Correlated activities analysis	✅

Incident Response Services

▪ Visibility over your interactions with cloud services	✅
▪ Just in time education	✅
▪ Perform automated actions	✅

Configuration, Management and Control

▪ Policy Control	✅
▪ Jellyfish Admin UI	✅

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Cogito Group is an award-winning ICT company specialising in authentication, cloud security, identity management and data protection. Cogito Group protect the authentication methods used to access information through the use of Identity and other security technologies.