Hosted Security [as a Service]

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Mainstream

Security je uvek lepa tema

1,5 milijarda ljudi biće pogođena krađom podataka

80% kompanija će zadesiti barem jedan uspešan napad

33% kompanija ne može da se zaštiti od polovine napada

$1.3M prosečan trošak po kompaniji godišnje

117,339 napada dnevno

By IDC, PwC

Mainframe computing

*"Mainframe computers are designed to handle very **high volumes** of input and output and are optimized for computational **speed**"*

*"A very large and **expensive** computer capable of supporting hundreds, or **even thousands**, of users simultaneously"*

*"A a **high-performance** computer used for large-scale computing purposes that require greater **availability** and **security** than a smaller-scale machine can offer"*

Cloud computing

"**Delivery** of computing services—servers, storage, databases, networking, software, analytics, and more—over the **Internet**"

"Type of computing that relies on **sharing computing resources** rather than having local servers or personal devices to handle applications. "

"The delivery of **on-demand** computing resources—everything from applications to data centers—over the Internet on a **pay-for-use** basis."

Outsourcing

*"The practice of having certain job functions **done outside** a company instead of having an in-house department or employee handle them"*

*"Outsourcing is typically used by companies to **save costs**."*

*"The real play with outsourcing is to use it as a tool to **drive strategic value**, transform businesses, and even fundamentally **change** industry dynamics."*

Globalna IT transformacija

Capex vs **Opex**

Data Centar

Zakup prostor u data centru

Komunalije u data centru

Hardware

Mehanička i električna infrastruktura

Serverska oprema

Mrežna oprema

Storage oprema

Software

Cena **licenci**

Support za software

Troškovi razvoja

Support

Migracija

Monitoring

Security

Ljudski resursi

Inženjeri za upravljanje data centrom

Inženjeri/administratori mreže

Inženjeri/administratori za storage

Administratori sistema

Help Desk operativci

Administracija

Zaposleni u nabavci

Vreme menadžmenta

Prevencija i problemi

Downtime

Gubitak podataka

Popravke ako nije u garanciji

Osiguranje

Revizija i sertifikacije

Generalni **security** aspekti

- Network security
  - IPS, Firewalls, Apps isolation, Data islands, DDoS
- Host security
  - Virus & Malware, OS updates, Access, Audit, Logging
- Data protection & retention
- Certifications
  - ISO 27001, SOC2/SSAE16, PCI DSS
- Testing & Monitoring
- Zakonska regulativa

Security as a Service [SECaaS]

Sigurnosne implikacije *gomile* aplikacija koje dele podatke i

kredencijale

Subscription fee

Protection for **Apps**, **Data** & **Operations** in **Cloud**

Market size $3B => **$8B** (2020)

Enterprise IT transformacija => novi uređaji, mobilni radnici, Cloudizacija, široka upotreba Public Cloud servisa

Stalni rast zahteva **bez rasta budžeta**!

Opasnosti vrebaju

Gubitak podataka

Kršenje regulatornih pravila

Kompromitovanje kredencijala

Hakovanje **API-a**

Advanced Persistent Threat [**APT**]

Otimanje naloga i saobraćaja

DoS/DDoS

Hosted Security – osnovni oblici

Single Sign-On

Email security & archiving

Endpoint security

Content protection – Web, Testing

Network Security / VPN

Hosted Security

Cloud Access Security Brokerage – *policy enforcment points*

Centralized control & management

Real-time & detailed reporting

Secure remote access

Off-net connectivity

24x7

Cost reduction

Zaključci

Subscription fee model

Flexibilnost na brze promene

Agilnost u isporuci servisa

Predvidljivost troškova

Hvala na pažnji!