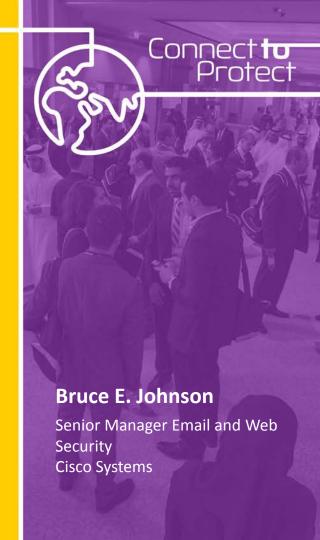
RSA*Conference2016

Abu Dhabi | 15–16 November | Emirates Palace

Session ID: SPO2-T06

Secure Your Email in the Cloud





Why are Companies Moving to the Cloud?



- Application Flexibility
- Disaster recovery
- Automatic software updates
- Lower capital expenditure
- Work from anywhere
- Shrinking IT staff

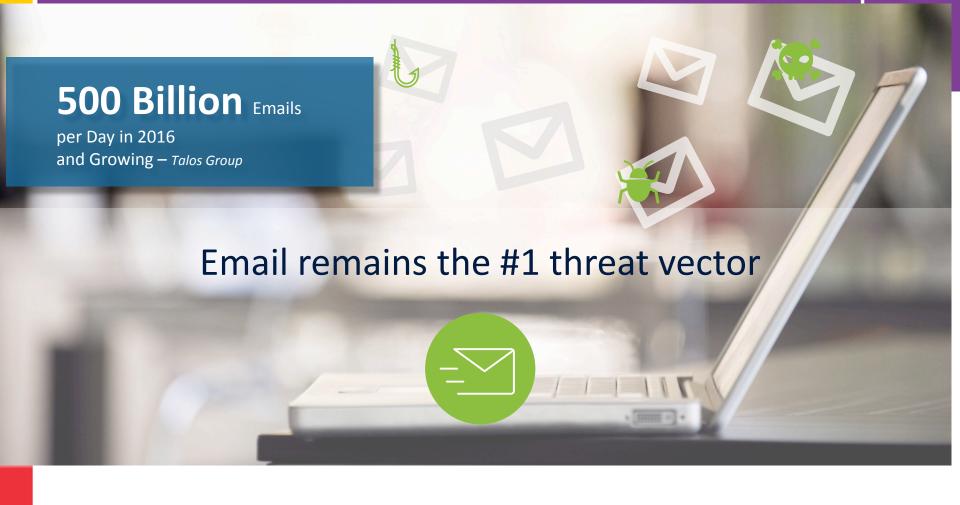


Worries all gone with cloud. Really?

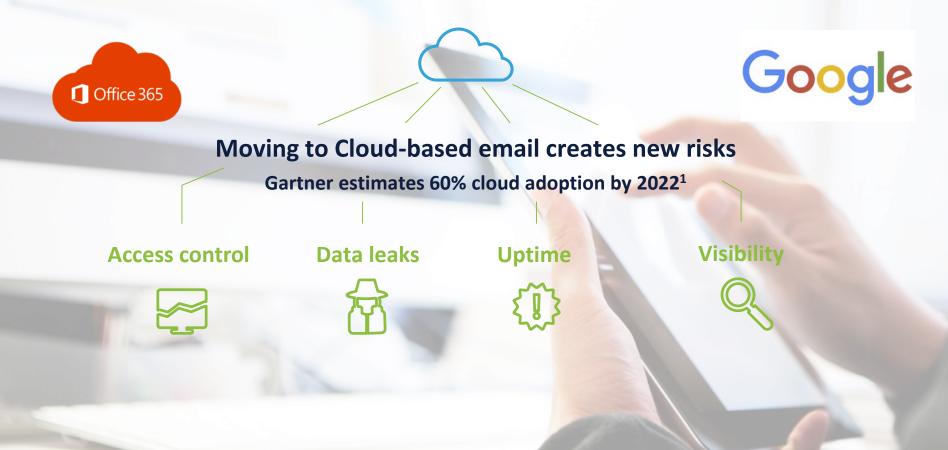


- What about security?
- Mobile users and different devices?
- Vulnerabilities start to multiply
- What about securing your email in the cloud?





Security Complicated by Migration to the Cloud



Phishing leaves businesses on the line





Phishing



Spoofing



Kansomwar



94%of phish mail has malicious attachments¹



UAE is 8th Highest for spear phishing attacks*



Yearly loss from phishing attacks by US companies²

¹2016 Cisco Annual Security Report ²2016 Verizon Data Breach Report, Kerbs on Security

Messages contain attachments and URL's

Socially engineered messages are well crafted and specific

Credential "hooks" give criminals access to your systems

Spoofing rates are on the rise







Phishing



Spoofing



Ransomware



Forged addresses fool recipients

Threat actors extensively research targets

Money and sensitive information are targeted

Ransomware holding companies hostage

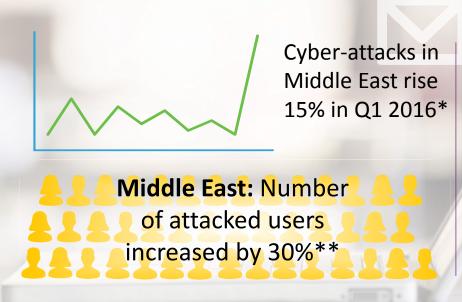




Phishing



Ransomware



\$60M

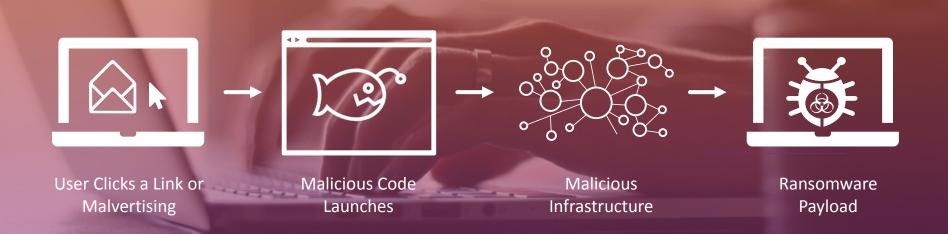
Cost to consumers and companies of a single campaign²

¹2016 Verizon Data Breach Report, Kerbs on Security ²2016 Cisco Annual Security Report

Malware encrypts critical files

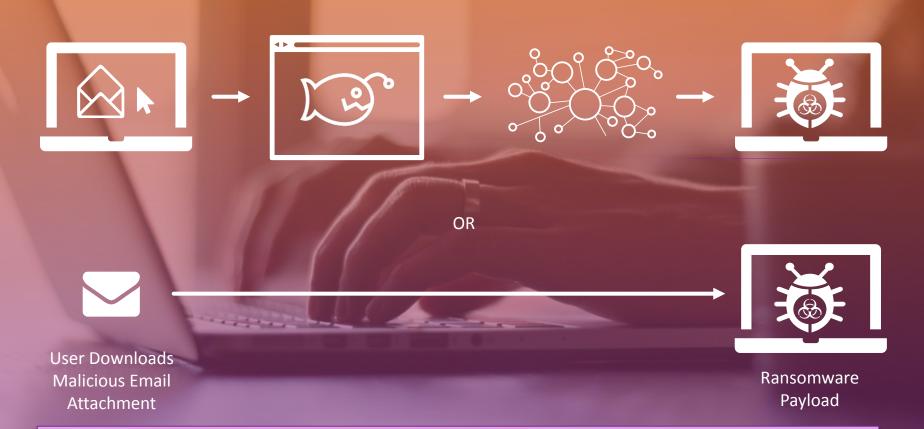
Locking you out of your own system

Extortion demands are made



Anatomy of a Ransomware Attack – URL Vector

3



Anatomy of a Ransomware Attack – Email Attachment Vector



Protecting from Ransomware





File Reputation

Preventative blocking of suspicious files



File Sandboxing and Analysis

Behavioral analysis of unknown files

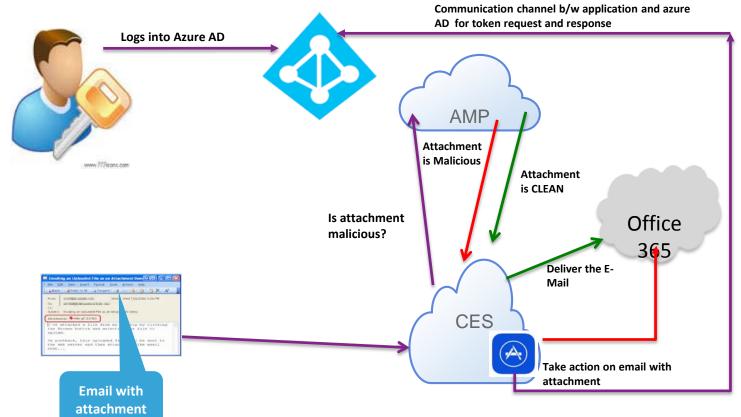


File Retrospection

Retrospective alerting after an attack







Summary



- Cloud has great benefits and some risks
- Email is a favorite attack vector
 - Phishing attacks
 - Spoofing
 - Ransomware
- Advanced malware protection is the key for protection

Next Steps...



- Examine your email security strategy
- Evaluate security provided by your cloud provider and determine if additional protection is needed
- Implement advanced malware protection