

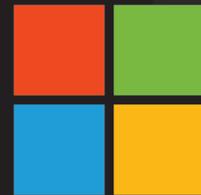
California Law Enforcement Telecommunications System Advisory Committee

Standing Strategic Planning Subcommittee

Folsom Police Department
November 19, 2015

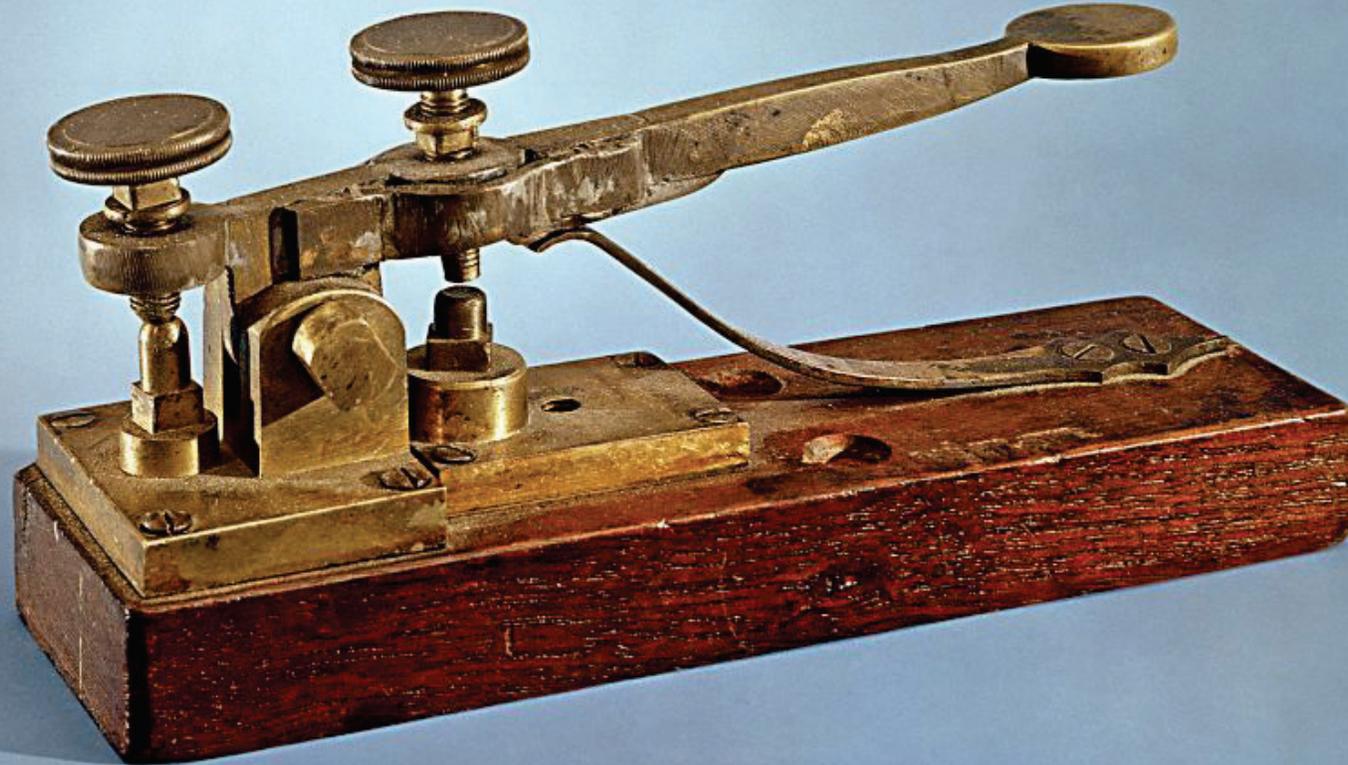
Stuart McKee
Chief Technology Officer
State/Local Government





Microsoft

What hath God Wrought?



Samuel Morse 1844

1961

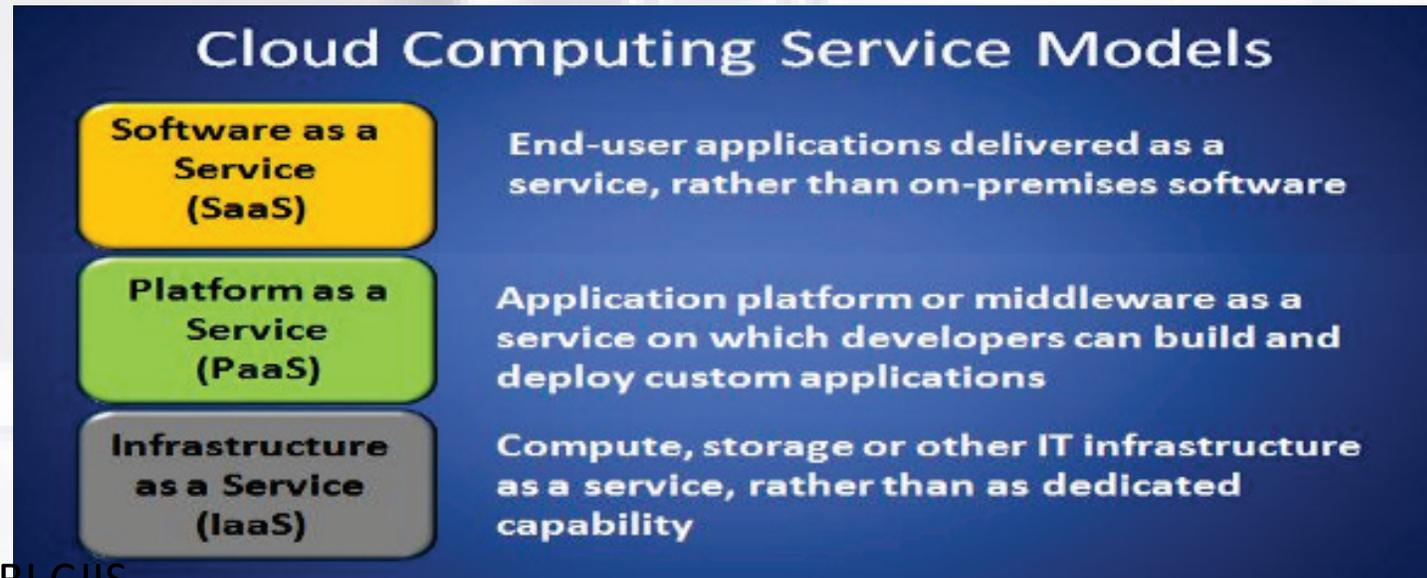


2015



CLOUD COMPUTING

A distributed, elastic, self provisioning, computing model that permits on-demand network access from anywhere to a shared pool of resources and information.







CLOUD COMPUTING

Should I Be Worried About My Data?

How committed to compliance is your chosen provider?

- HIPAA
- FISMA
- SOX
- PCI DSS

What services are you moving to the cloud?

- Searchable Records
- Back Office Services (e-mail, collaboration, working files)
- Web Portal

Which/what cloud service model(s) are you leveraging?

- SaaS
- PaaS
- IaaS

What is the data sensitivity?

- PII
- IP
- CJJ
- Financial
- Health Records

CLOUD COMPUTING

Some Cloud Service Provider Must-Haves

- Transparency
- Encryption at rest and in transport
- Personnel security screening
- Customer or 3rd party audit
- Responsiveness to E-Discovery
- Clear access control mechanisms
- Granular breach response
- Exit Strategy



Not All Clouds Are Created Equal



The Microsoft Cloud

200+ cloud services
1+ million servers
\$15B+ infrastructure investment

1 billion customers
127 countries
worldwide



OUR **UNIQUE** PERSPECTIVE

300B user authentications each month

1B Windows devices updated

200B emails analyzed for spam and malware

The Microsoft Government Community Cloud



Approaching
3,000,000
O365 Gov Users

1,200,000
SQL databases
in Azure

> 30 Trillion
Storage objects
in Azure

350 Million
Azure Active Directory users

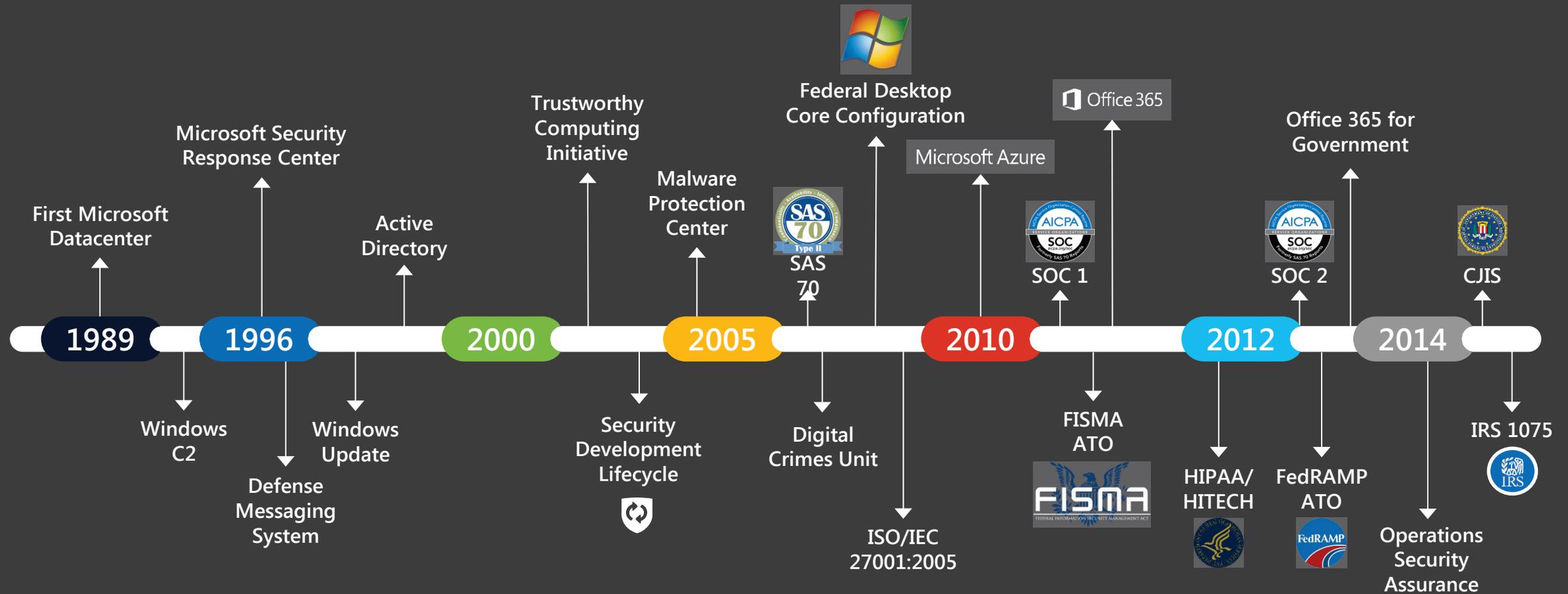
> 18 Billion
Azure Active Directory
authentications/week

> 2 Million
Developers registered with
Visual Studio Online

+ 10% growth MoM

> 60%
Customers using higher
level services

Heritage of security and compliance



Commitment to industry-leading compliance

Microsoft offers unrivaled industry leadership through its commitment to compliance.



CJIS

ECSB

FedRAMP

HIPAA

IRS 1075

Microsoft is the first and only hyperscale cloud provider to meet CJIS security requirements for infrastructure and productivity.

Comprehensive Compliance



Protecting YOUR data

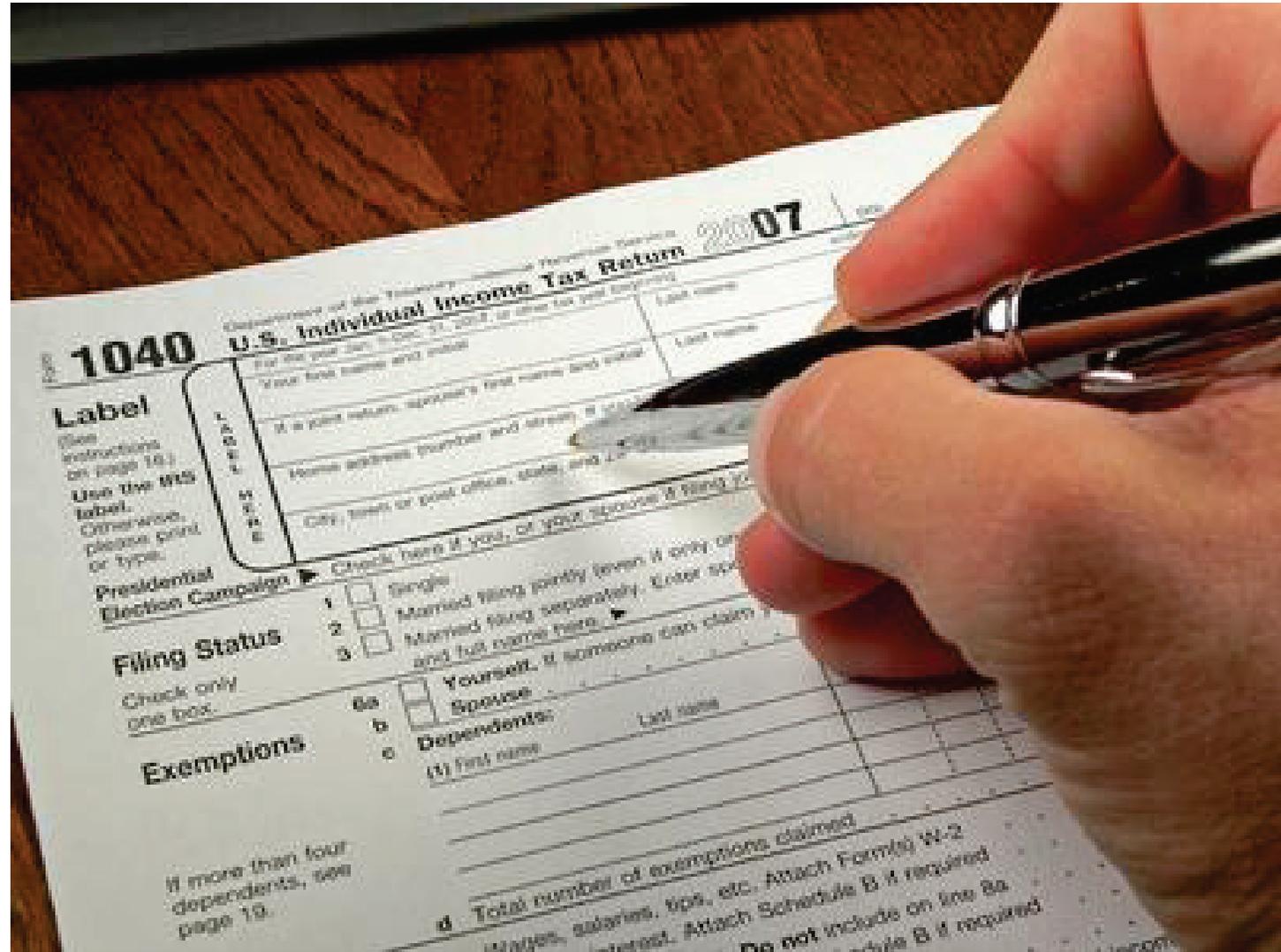


CJIS

Employee Background Checks

IRS 1075

Audits



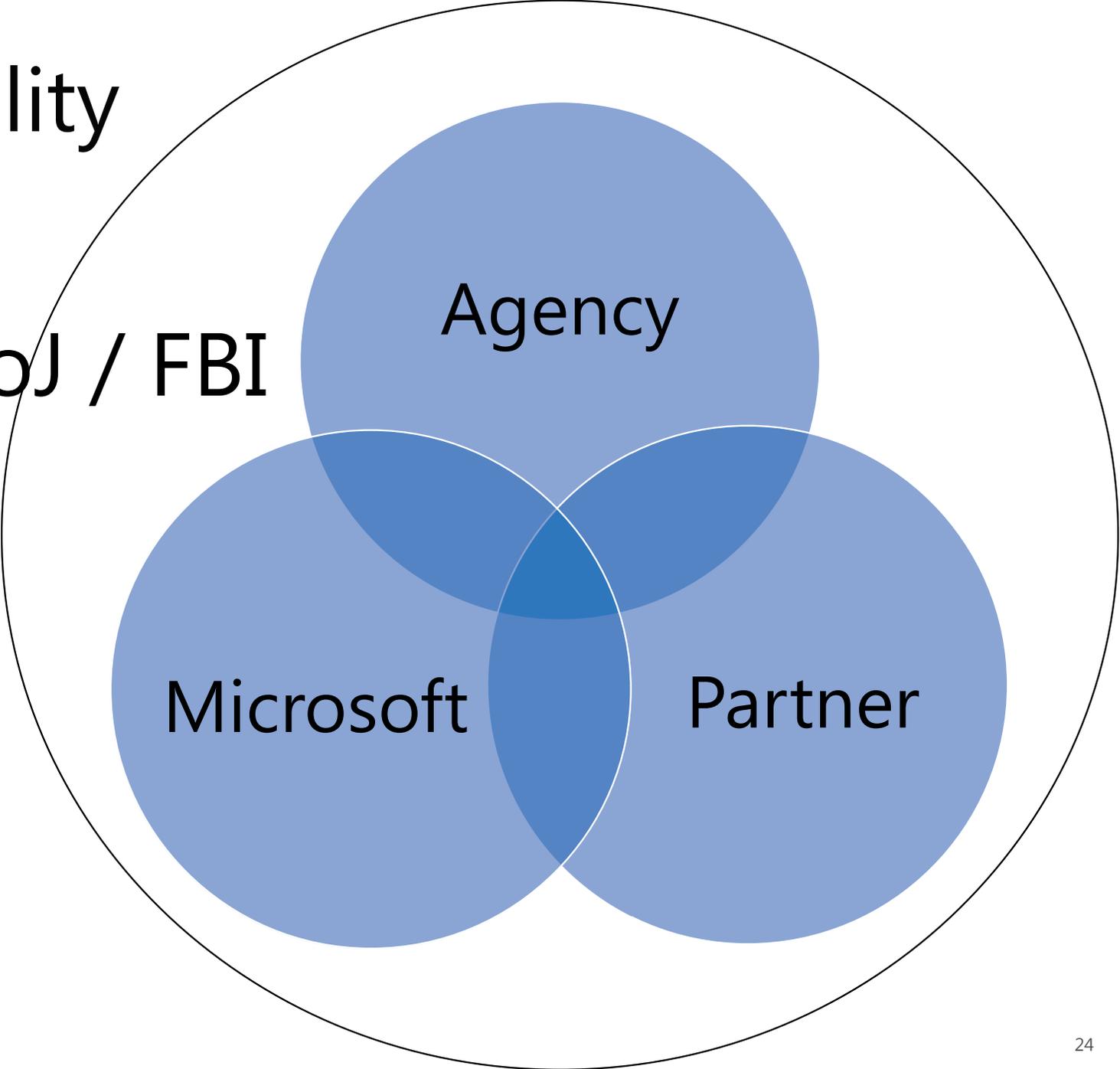


HIPAA

*Sign on the
dotted line*

Shared Responsibility

CA DoJ / FBI

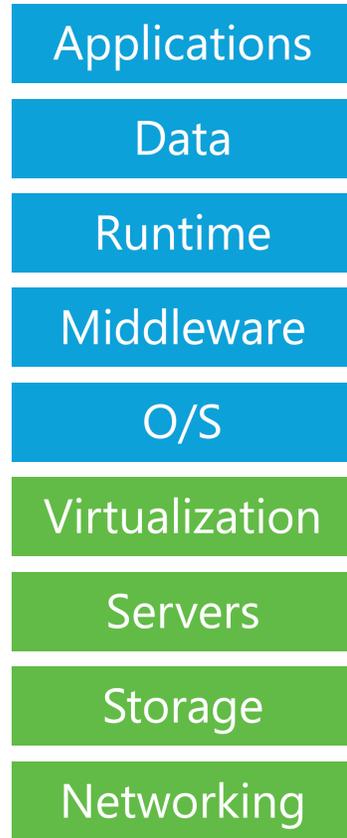


Agency interactions depend on nature of Cloud service

On Premises



Infrastructure (as a Service)



Platform (as a Service)



Software (as a Service)



Managed by:

Customer

Vendor

← Microsoft Azure →

Office 365

Microsoft Dynamics CRM



Cyber Defense Operations Center



 This website has been classified as malicious.

www.spamlink.contoso.com

We recommend that you close this web page and not continue to this website. [Learn more about Malware](#)

 Close this page.

[Continue to this website](#) (not recommended).

Security Center

PREVENTION

Resources health

- Virtual Machines: ██████████ ██ ██
- Networking: ██████████ ██ ██
- SQL: ██████████ ██ ██
- Applications: ██████████ ██ ██ ██

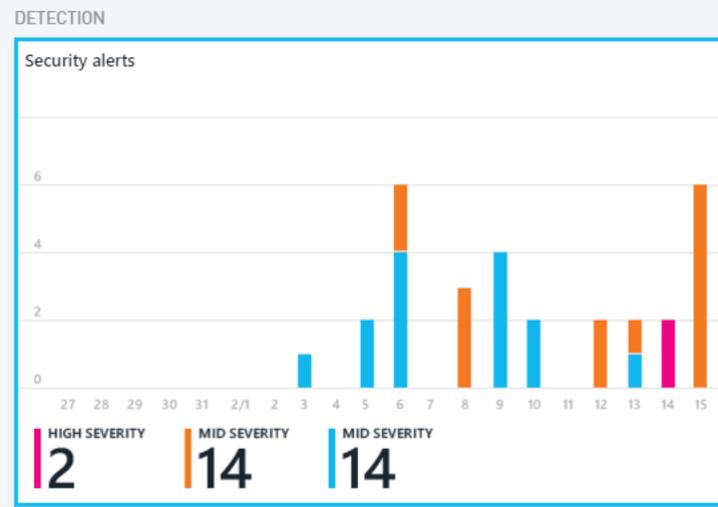
Recommendations

12 TOTAL

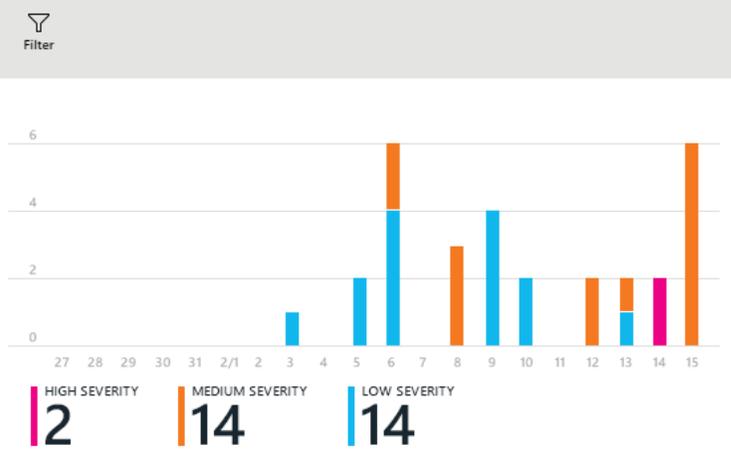
Security policy

QUICKSTART

Summary: HIGH SEVERITY 14, MEDIUM SEVERITY 26, LOW SEVERITY 2



Security alerts



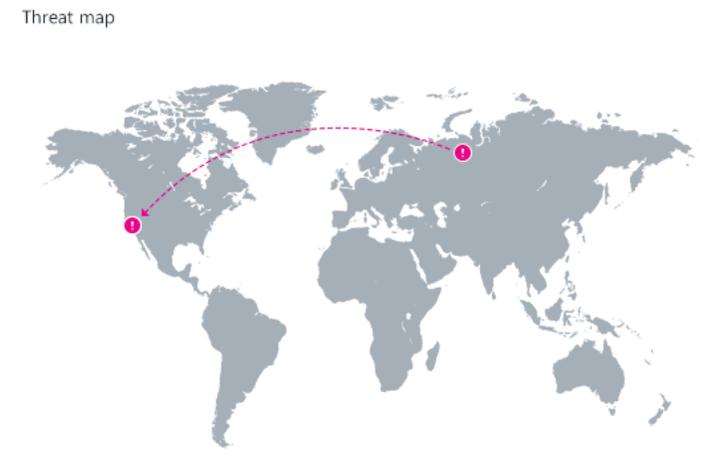
ALERT	COUNT	DETECTED BY	DATE	STATE	SEVERITY
Suspicious process found	6	Microsoft	7/15	Open	Warning
Traffic to malicious IP 90.150.112.27	1	Microsoft	7/14	Open	High
Brute force attempts were detecte...	1	Microsoft	7/14	Open	High
SQL injection attempt from 90.15...	1	Barracuda WAF	7/13	Open	Info
A user account password has been...	1	Microsoft	7/13	Open	Warning
Critical malware action failed	1	Trend micro	7/12	Open	Warning
Exploitable process detected (sql-s...	1	Microsoft	7/12	Open	Warning
Non-critical malware action failed	1	Trend micro	7/10	Open	Info
Traffic to malicious IP 104.12.112.1...	1	Microsoft	7/10	Open	Info
SQL injection attempt from 103.33...	4	Microsoft	7/9	Open	Info
Traffic to malicious IP 121.14.112.3...	1	Microsoft	7/8	Open	Warning
Brute force attempts were detect.e...	2	F5 Network	7/8	Open	Warning
DDOS attack from 103.14.120.12.3...	2	Barracuda WAF	7/6	Open	Warning
SQL injection attempt from 103.3...	4	Barracuda WAF	7/6	Open	Info
Non-critical malware action failed	2	Trend micro	7/5	Open	Info
Traffic to malicious IP 103.14.120.9...	1	Microsoft	7/3	Open	Info

Traffic to malicious IP 90.150.112.27

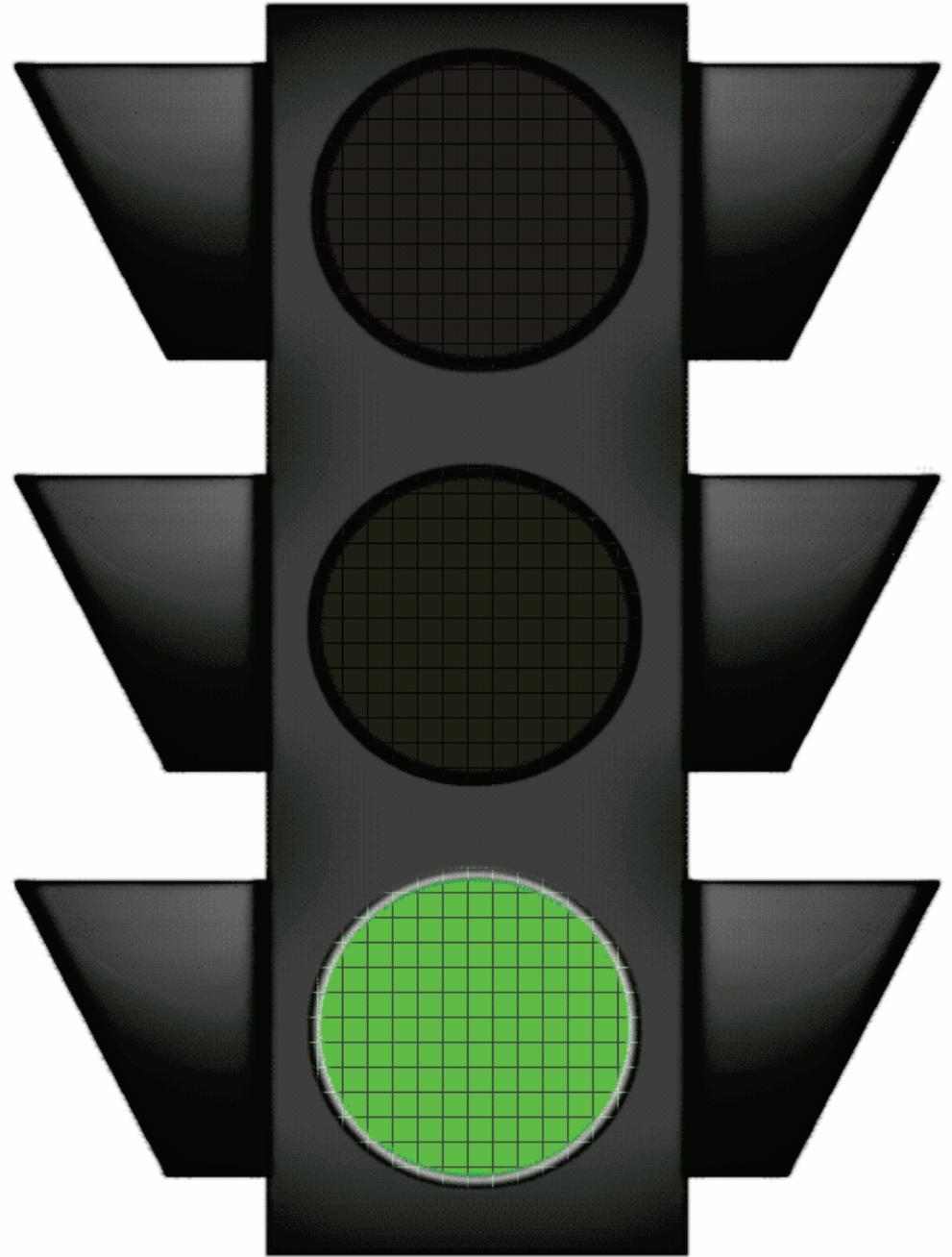
Traffic to malicious IP 90.150.112.27 was detected originating from IP 138.91.9.51 (Virtual Machine 1). IP 90.150.112.27 is known to be part of the Simda botnet. Remediate by running an anti-virus scan and blacklisting IP 90.150.112.27 in the ACL

ALERT: Traffic to malicious IP 90.150.112.27
 TIMESTAMP: Tuesday, July 14th, 2015 12:03:55 AM
 COUNT: 1
 DETECTED BY: Microsoft
 SEVERITY: High
 ACTION TAKEN: Detected

ATTACKED RESOURCE: Virtual Machine 1
 RESOURCE VIP: 138.91.9.51
 RESOURCE LOCATION: West US
 ATTACKER IP: 90.150.112.27
 ATTACKER LOCATION: Russia



Moving Forward Discussion



Thank you

stuartm@microsoft.com