Bezpečnostní aspekty digitální transformace státní správy

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9.4.2018
Highlights: 2000 - present

- Founded in 2000 by Ken Xie
- Headquartered in Sunnyvale, California
- 100+ offices across the globe
- 4,900+ employees worldwide
- In excess of $1bn revenue
- $1.5bn in cash
- 24% growth year on year
- 3.4m shipped security devices
- 330K customers
- 439 patents issued
- 291 in process
REMEMBER THIS?

TODAY’S NETWORK IS BORDERLESS

TODAY’S NETWORK IS FASTER THAN EVER

TODAY’S NETWORK IS MORE COMPLEX THAN EVER
Digital Transformation is the integration of digital technology into all areas of a business, resulting in fundamental changes to how businesses operate and how they deliver value to customers.
DIGITAL TRANSFORMATION

Engage Your Customers
Empower Your Employees
Optimize Your Business
Transform Your Products

Digital Technology

Digital Transformation

Fortinet
OBSTACLES TO DIGITAL TRANSFORMATION

Security is the largest factor standing in the way of enterprise digital transformation efforts. More than half (55%) of companies said that security was the No. 1 challenge they face when implementing digital enablement technologies.

Source: SoftServe 2017

Cybersecurity one of Top 10 obstacles to Digital Transformation

Source: Harvard Business Review 2017

“Security nearly always tops the list of digital transformation obstacles”.
Marc Cecere, Forrester, ZD Net, 2017

The biggest disruptive technologies cited by global respondents are the cloud (58%), mobility and collaboration (54%), big data (52%)...IoT (43%)

Source: BT CIO Report 2016

Some 57% of businesses reported major issues finding and recruiting talented IT security staff—a problem as digital transformation efforts move more data and systems to the cloud, and cyber attacks grow more sophisticated.

Source: Osterman Research 2017
Q3 2017 BY THE NUMBERS* (some of the numbers)

**EXPLOITS**
- 5,973 unique exploit detections
- 79% of firms saw severe exploits

**MALWARE**
- 14,904 variants in 2,646 families
- 22% detected ransomware

**BOTNETS**
- 245 unique botnets detected
- 3% of firms saw ≥ 10 botnets

*FortiGuard Q3 2017 Threat Landscape Report*
BUT STILL NEED TO LOOK BACKWARDS

ELDERLY VULNERABILITIES ARE STILL DANGEROUS

90% of organizations saw exploits for vulnerabilities that were at least 3 years old.

60% saw ones that were 10 or more years old.
THE OPTIONS IN FRONT OF US

01. Do Nothing… and Hope for the Best
02. Maintain separate networks… and Hope for the Best
03. Consolidate legacy and DX networks… and Hope for the Best
is the integration of security into all areas of digital technology resulting in fundamental changes to how security is architected, deployed and operated.
Provides Visibility and Protection Across the Entire Digital Attack Surface

Multiple Technologies Working Together for the Detection of Advanced Threats

Embedded Intelligence for Automatic Response & Continuous Trust Assessment
SOLUTIONS ARE DEAD, LONG LIVE SOLUTIONS

APPLICATION SECURITY
SECURE ACCESS
ENTERPRISE FIREWALL
CLOUD SECURITY
ADVANCED THREAT PROTECTION
SECURITY OPERATIONS
Introducing The Fabric 8

Network Security
- FortiGate Enterprise Firewall
- FortiGate Cloud Firewall

Multi-Cloud Security
- FortiGate Virtual Firewall

Endpoint Security
- FortiClient EPP

Email Security
- FortiMail Secure Email Gateway

Web Application Security
- FortiWeb Web Application Firewall

Secure Unified Access
- FortiAP Wireless Infrastructure

Advanced Threat Protection
- FortiSandbox Advanced Threat Protection

Management & Analytics
- FortiAnalyzer Central Logging/Reporting
- FortiManager Central Security Management
- FortiSIEM Security Information & Event Management
THE FABRIC 8

Network Security

Products and services that provide high-performance, consolidated advanced security and deep visibility to protect the network from known and unknown threats

**FortiGate**
Enterprise Firewall

- IPS
- SWG
- SD-WAN
THE FABRIC 8

Multi-Cloud Security

Products and services that protect the expanded attack surface across private cloud, public cloud and SaaS

- FortiGate Virtual Firewall
  Network Security
- FortiGate Cloud Firewall
  Network Security
- FortiCASB
  Cloud Access Security Broker
- Fortinet Connectors
  Cloud & SDN Integration
Secure Unified Access

Products and services necessary to provide secure network connectivity, wired or wirelessly, to users of the Fortinet Security Fabric

- **FortiWiFi**: Integrated Wireless
- **FortiAP, FortiWLC, FortiWLM**: Wireless Infrastructure
- **FortiSwitch**: Switching Infrastructure
- **FortiAuthenticator, FortiToken**: Identity and Identity Management
THE FABRIC 8

Web Application Security

Products and services that protect web-based applications from threats that target known and unknown exploits

FortiWeb
Web Application Firewall

FortiADC
Application Delivery Controller

Appliance
Virtual Machine
Hosted
Cloud
THE FABRIC 8

Email Security

Products and services that inspect corporate email for unwanted (spam) and malicious (phishing, malware) messages as well as inappropriate or sensitive content

FortiMail
Secure Email Gateway

- Appliance
- Virtual Machine
- Hosted
- Cloud
THE FABRIC 8

Endpoint Security

Products and services that detect and block malicious objects delivered via web, email, network, or personal storage to an endpoint

FortiClient
NG Endpoint Protection Platform

Enterprise Management Server
Central Management

IoT
Endpoint

MANAGEMENT-
ANALYTICS

PARTNER
API

MULTI-
CLOUD

WEB
APPS

EMAIL

ADVANCED THREAT
PROTECTION

UNIFIED
ACCESS

NETWORK

IOT-
ENDPOINT
Advanced Threat Protection

Products and services that continue inspecting for malware and other signs that cyber criminals have gained entry despite traditional threat prevention products (NGFW, SEG, EPP, WAF, etc)

FortiSandbox
Advanced Threat Protection

Appliance
Virtual Machine
Hosted
Cloud
THE FABRIC 8

Management & Analytics

Products and services that weave Fortinet and partner products into a cohesive solution, uncovering hidden insights and reducing the total cost of ownership

- **FortiAnalyzer**
  Central Logging & Reporting

- **FortiManager**
  Central Security Management

- **FortiCloud**
  Cloud-based Central Management

- **FortiSIEM**
  Security Information & Event Management
WHERE DOES IT GO FROM HERE?

- Changing Business Objectives and Requirements
  » Digital Transformation is today’s focus

- Technology
  » Cloud and IoT Today – Who Knows Tomorrow

- Threats
  » Organizations create cyber value, Hackers are there to take it away

- Fortinet Security Fabric IS the Constant in this Sea of Change
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