

The Impact of Unsecured Digital Identities

In 2020, the Ponemon Institute surveyed 603 IT and IT security practitioners in North America to understand what happens when PKI and certificate management practices are not at their best.

CURRENT STATE OF CRYPTOGRAPHIC MANAGEMENT

74%

of organizations don't even know how many keys and certificates they have, much less where they are or when they expire

Disruptive outages are on the rise

73%

of respondents say that digital certificates cause unplanned downtime and outages

Operational costs for PKI management are increasing

\$3M

Organizations spend an average of **\$19.5m** on IT security annually, with an average of **16% (\$3m)** dedicated to PKI

Insufficient staffing leaves PKI shorthanded

only 38%

of organizations have sufficient IT security staff members dedicated to PKI deployment

Unsecured digital identities undermine trust in the business

76%

of respondents say failure to secure keys and certificates undermines the trust their organization relies upon to operate

The top strategic priority for digital security is authenticating and controlling IoT devices

only 37%

of respondents are confident in their ability to maintain IoT device identities and cryptography over the device lifetime

WHY MANAGING PKI HAS BECOME A CHALLENGE

Most companies are migrating or have already migrated to the cloud. The shift to cloud services, containers, and infrastructure as code has introduced new challenges for cryptography.

Enterprise connectivity is growing exponentially

By 2021, there will be **25 billion** Internet-connected devices and appliances in use

1

Organizations are adding additional layers of encryption to secure their critical data and comply with regulations

An estimated average of **88,750 keys** and certificates are used by organizations to secure data and authenticate systems

2

Attackers increasingly leverage unsecured digital identities to infiltrate networks and compromise critical data

Only **40%** of organizations are confident in their ability to effectively detect and respond to certificate or key misuse

4

Cryptography lacks a center of excellence

No one function emerges as the clear owner of the growing PKI budget

3

DOWNLOAD THE 2020 IMPACT
OF UNSECURED DIGITAL IDENTITIES REPORT

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