

Why CIOs Worry About Machine-Identity-Related Outages

Cryptographic keys and digital certificates serve as machine identities. While these are critical to security, our CIO survey revealed that concerns about certificate-related outages plague nearly all organizations.

OUTAGES SCOPE:

How big is the problem?

PERSISTENCE

60%

CIOs who experienced a certificate-related outage in the last 12 months

COST

\$5,600



Average cost per minute of a critical infrastructure outage

OUTAGES FORECAST:

Will it get worse before it gets better?

INCREASED EXPOSURE

55%

CIOs expect a 50% increase in the number of certificates they use in 2019

SHORTER LIFECYCLES

90-day

Shorter certificate lifespans are becoming more common



LIMITED VISIBILITY



57,420

unknown keys and certificates are discovered, on average, when a machine identity protection solution is deployed

OUTAGES CONCERNS:

What do CIOs worry about most?

NEGATIVE IMPACT

50%

Unsatisfactory customer experience

45%

Consuming IT department time and resources

43%

Impact on revenue

39%

Lower worker productivity and company reputation

OUTAGES EXPOSURE:

Why are outages so prevalent?

WE'RE THINKING TOO SMALL

70%

Admit to tracking fewer than 50% of common machine identities types

IT'S COMPLICATED

85%

Believe IT system complexity will make outages more painful in the future

OUTAGES AS A SECURITY SYMPTOM:

Certificate-related outages expose unmonitored machine identities which may also be vulnerable to hacker misuse.

OUTAGES ACTION PLAN:

How can you lower your risk?



1.

DISCOVER ALL CERTIFICATES

Look across your entire extended network, cloud and virtual instances, as well as CA implementations.



2.

CREATE A COMPLETE INVENTORY

Tracking and managing the status of all certificates makes it easier to rotate them before they expire.



3.

VERIFY SECURITY COMPLIANCE

Make sure that all certificates are governed by policies that ensure a regular cadence of renewals.



4.

CONTINUOUSLY MONITOR CERTIFICATES

Non-stop surveillance is the most efficient way to keep tabs on renewal requirements, as well as misuse.



5.

AUTOMATE RENEWALS

Automatically installing, configuring and validating certificates eliminates the risk of human error.

Worried about machine-identity-related outages? Venafi can help. Visit venafi.com.

About the study

- Source: Study conducted by Vanson Bourne
- Respondents: 550 Chief Information Officers (CIOs) responsible for cryptographic assets across the USA, UK, Australia, France and Germany

¹<https://blogs.gartner.com/andrew-lerner/2014/07/16/the-cost-of-downtime/>

²TechValidate, TVID: 997-36B-8D1

³Securing The Enterprise With Machine Identity Protection, a June 2018 commissioned study conducted by Forrester Consulting on behalf of Venafi