

Entrust situation

An overview and suggested actions

digicert[®]



Today's speakers



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Entrust distrust – what’s going on here



What

- Google announced that Chrome (market share ~65%) will no longer trust TLS certificates issued by Entrust, effective October 31, 2024
- Blocking action will begin on approximately November 1, 2024, affecting certificates issued at that point or later (Chrome 127 onwards)

Why

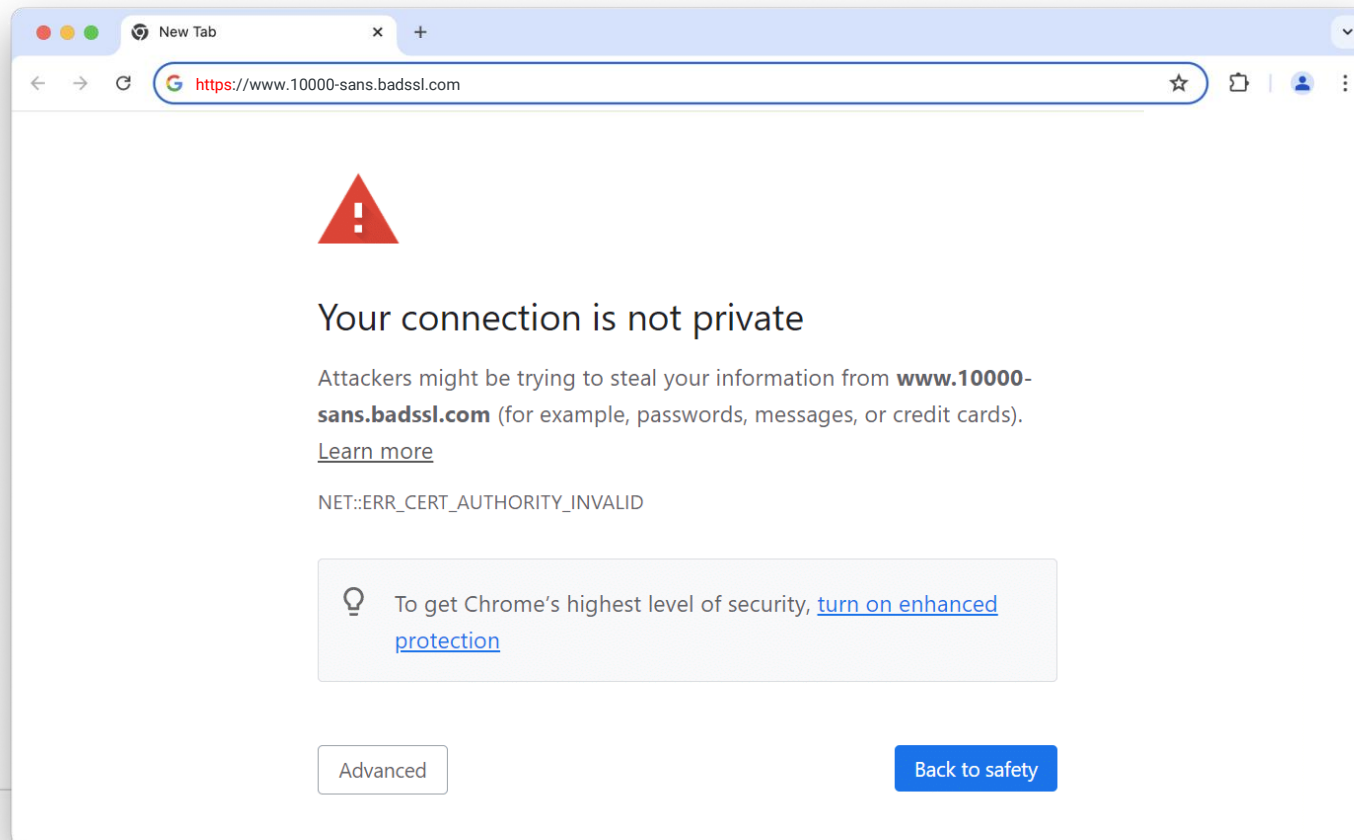
- Google “*highlighted a pattern of concerning behaviors by Entrust*”
- Summary: Systemic failures in transparency, response times, and issuance of compliant certificates.

Next steps

- Google recommends that, “*affected website operators transition to a new publicly-trusted CA owner as soon as reasonably possible*” to avoid adverse impact.

User impact of Entrust distrust

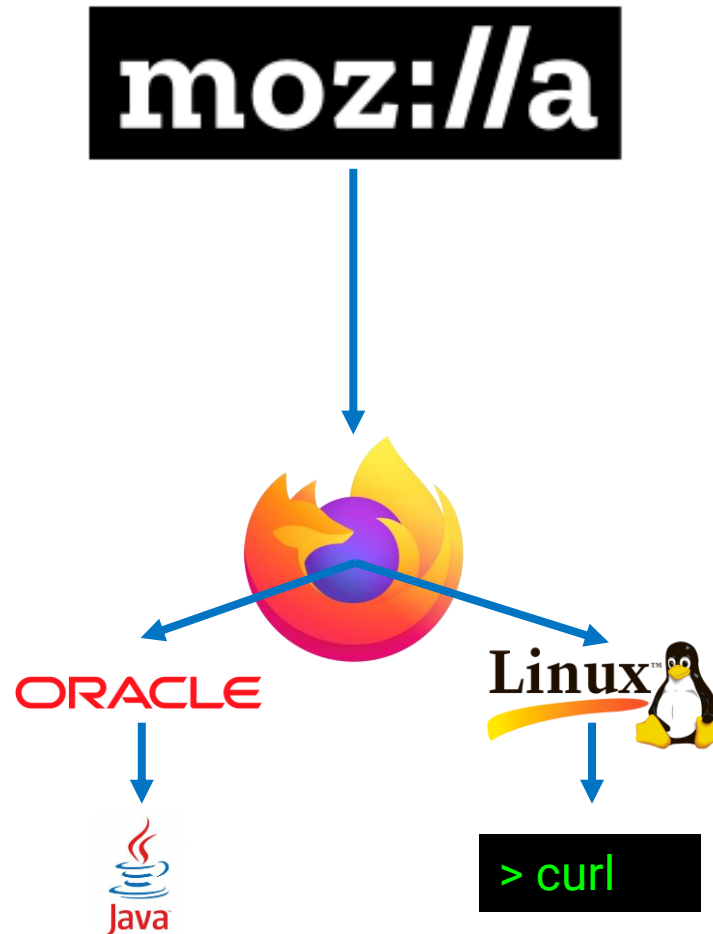
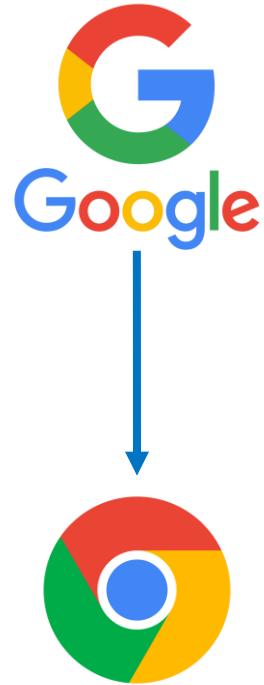
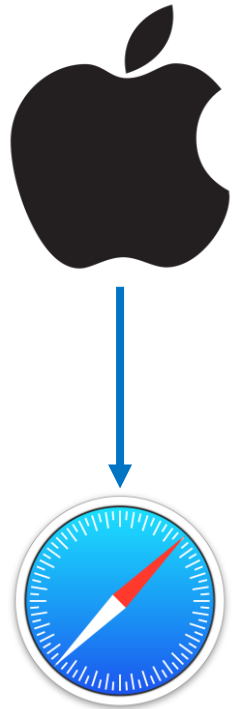
*“Chrome users who navigate to a website serving a certificate **issued** by Entrust or AffirmTrust off the roots that will be distrusted after October 31, 2024 will see a full page similar to this one”*



Implications for customers

- Customers would need to migrate all issuance to another public CA by Oct 31, 2024
- Any network, device, or trust store configurations with Entrust might need to change

The Web-PKI Trust Ecosystem



History of distrust

14

Certificate Authorities

Distrusted by major browsers Since 2011

ex: Symantec, WoSign, Visa, DigiNotar



68% of all distrust: Poor compliance handling

Other Reasons:

50%

Security Breaches

42%

Issuance of Fraudulent Certificates

14%

Limited Value to the ecosystem



*Source <https://unmitigatedrisk.com/?p=850>

DigiCert: proven leaders in distrust management

2,100,000+

Symantec
Certificates
Migrated

160,000+

Organizations
Validated

100,000+

Domains
Validated

Only 4

Months to build,
deploy,
& migrate.



How DigiCert handled Symantec distrust

- **Communicated** with the browsers and stakeholders
- Developed an **integration plan** and system
- Established trust in the process by **communicating** a plan and timelines
- Provided **transparency** on the Symantec transfer
- Worked rapidly to **migrate customers** and kept commitments
- Kept the goal in sight of **shutting down legacy systems**
- Shut down Symantec systems once **migration completed**

How can DigiCert help

1 Migrate Entrust SSL Certificates

- Get new certificates quickly from **Digicert CertCentral**.
- Get inventory of Entrust certificates & Reissue with DigiCert.

2 Automate certificate lifecycle management

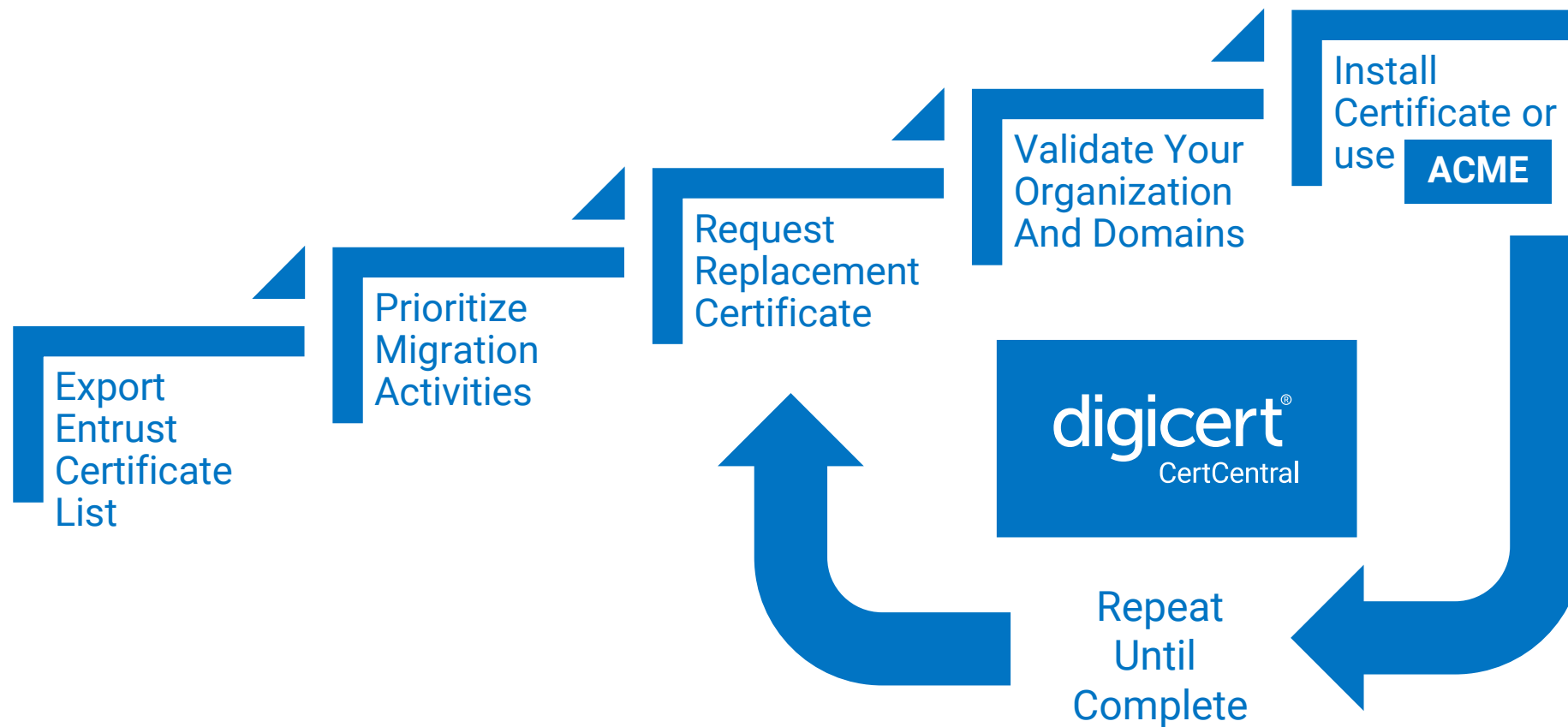
- Deploy powerful tooling to automate certificate reissuance.
- Utilize ACME or any of the numerous support automation technologies.
- Future proof your **crypto-agility with DigiCert Trust Lifecycle Manager**

3 Centralize public and private PKI

- DigiCert Trust Lifecycle Manager provides a single tool to manage your public and private PKI(s)
- **Modernize PKI** - Manage private and public PKIs together
- Establish Private Enterprise Roots with DigiCert.

Migrating less than 50 certificates?

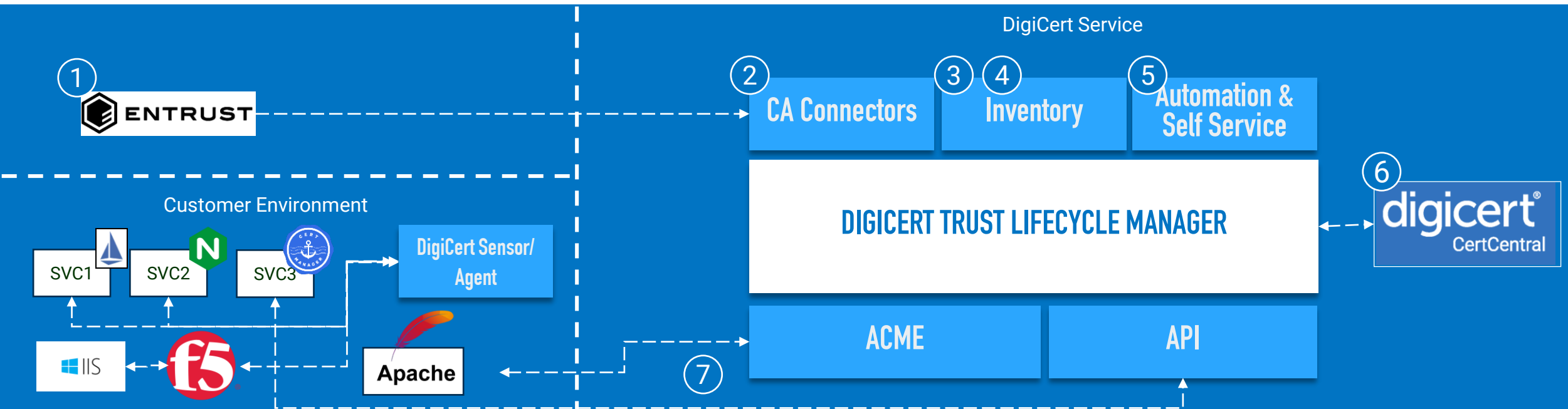
Follow this path for simple migration use cases.



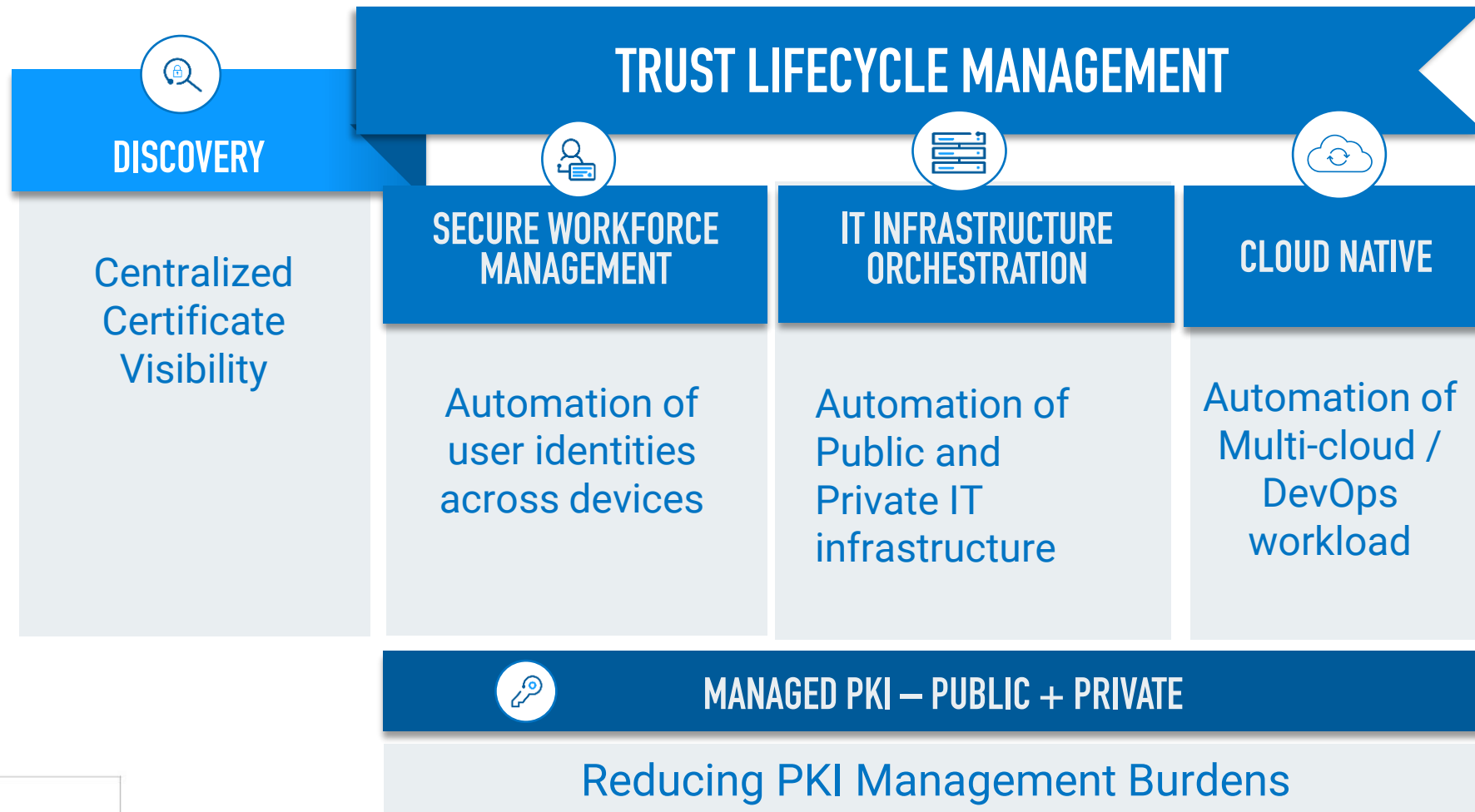
Migrating more than 50 certificates?

Follow this path for more than 50 certificates.

1. Connect DigiCert Trust Lifecycle Manager to Entrust.
2. Import Entrust Certificates
3. Prioritize and Plan Migration
4. Configure Automated Installation or Initiate Self-Service Migration
5. New Certificates Issued by DigiCert
6. Deploy Certificate to target systems



Trust lifecycle manager – delivering crypto agility



Why trust DigiCert

History	Transparency	Expertise	Customer Focus
25+ Years of Industry Leadership	Compliance Focused Operations	700+ Security Experts / Engineers	5 Star Customer Support (NPS 80)
Widest Root Ubiquity	Lead key industry groups	Operate Infra for CT Logging industry	Solutions for many PKI workflows
We are a PKI company	Communications, actions & plans	Provide OSS PKI Linting (hygiene)	Trusted by 97% of F100 Banks

DigiCert: Setting the standard for digital trust

Investing in standards for trust

- Leadership in technology & industry standards
- Strong compliance; 25+ annual audits
- Managing over 2600 PKI systems worldwide



Global footprint, local delivery

- Customers in 180 countries
- 24/7/365 follow-the-sun, world-class support



How DigiCert manages incidents

- **Be a partner** with the ecosystem and establish trust
- Respond to inquiries **promptly** and with **humility**
- Provide **transparency** into the CA operations challenges
- Create **meaningful steps that improve**
 - both the ecosystem and your CA operations
- Find a **never-again plan** that works
- Establish a mind-set of **continuous improvements**
- Have **good data practices**
- **Automate** as much as possible
- Perform **regular audits**

I do want to say, even as a preliminary incident, this is a great example of what a CA that issues EV/OV certs should do when they're facing a delayed revocation.

- Amir (Mozilla forums)



Global operations

Best support - 24/7/365



97%

world's largest
banks

DigiCert

Best in class SSL/ PKI
Management



120,000+

customers



Experts

Manage 2600+ Roots
Manage 5700+ ICAs
60+ Key Ceremonies/Week



80

industry-leading
NPS score

Questions?

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Thank you

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