

CipherTrust Secrets Management Powered by Akeyless Vault

Thales on Tour
2023/12/05

Thales Offers a Unified Approach to Data Security



DISCOVER

Discover data wherever it resides and classify it

PROTECT

Protect sensitive data with encryption or tokenization

CONTROL

Control access to the data and centralize key management and policies

CipherTrust Data Security Platform

CipherTrust Manager

Key Management and Policies



CipherTrust Connectors

Discovery

Discovery and Classification



Ransomware Protection, Encryption and Access Control



Database Protection



Encryption and Tokenization

Application Data Protection



Tokenization



Key Management

Enterprise



Multi Cloud

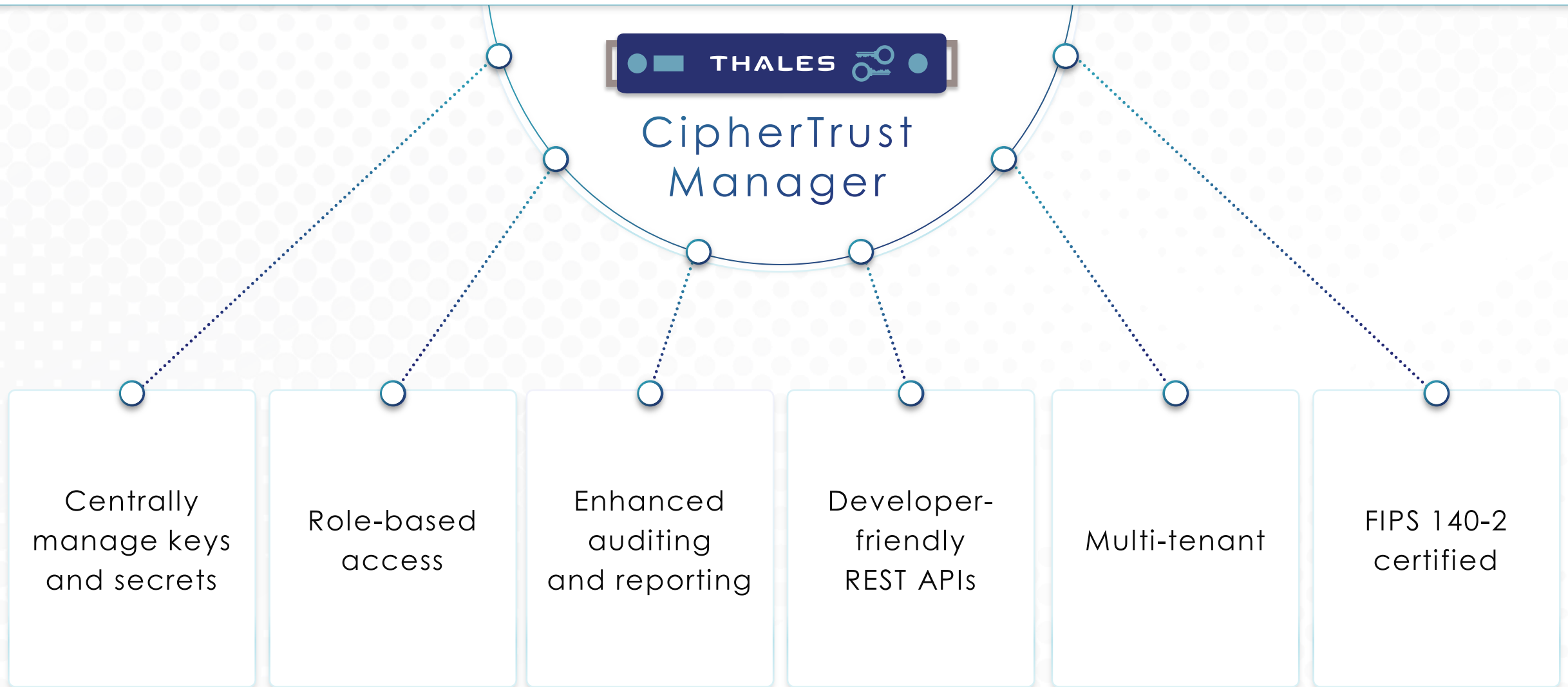


Secrets Management

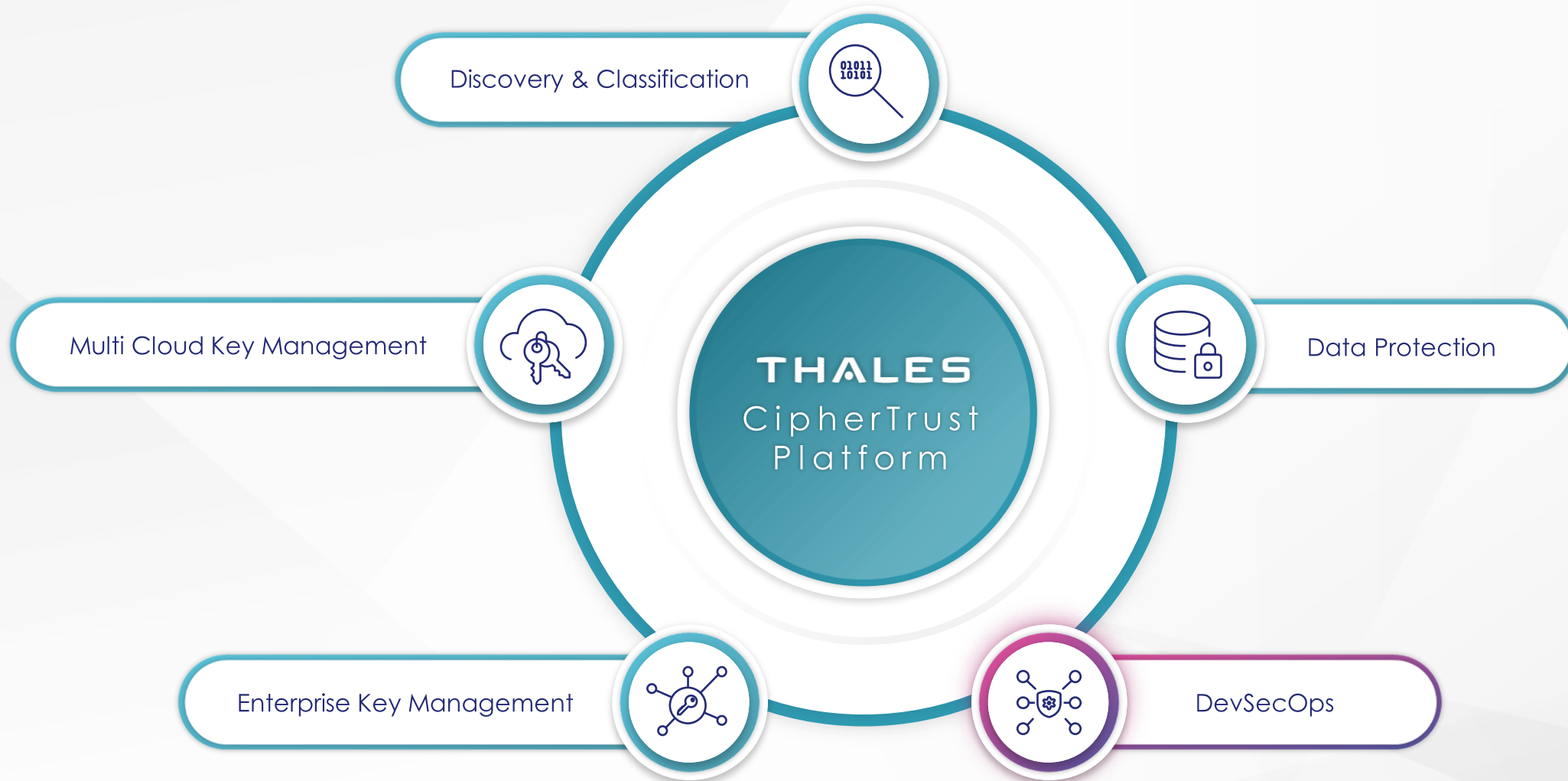
Secrets Management



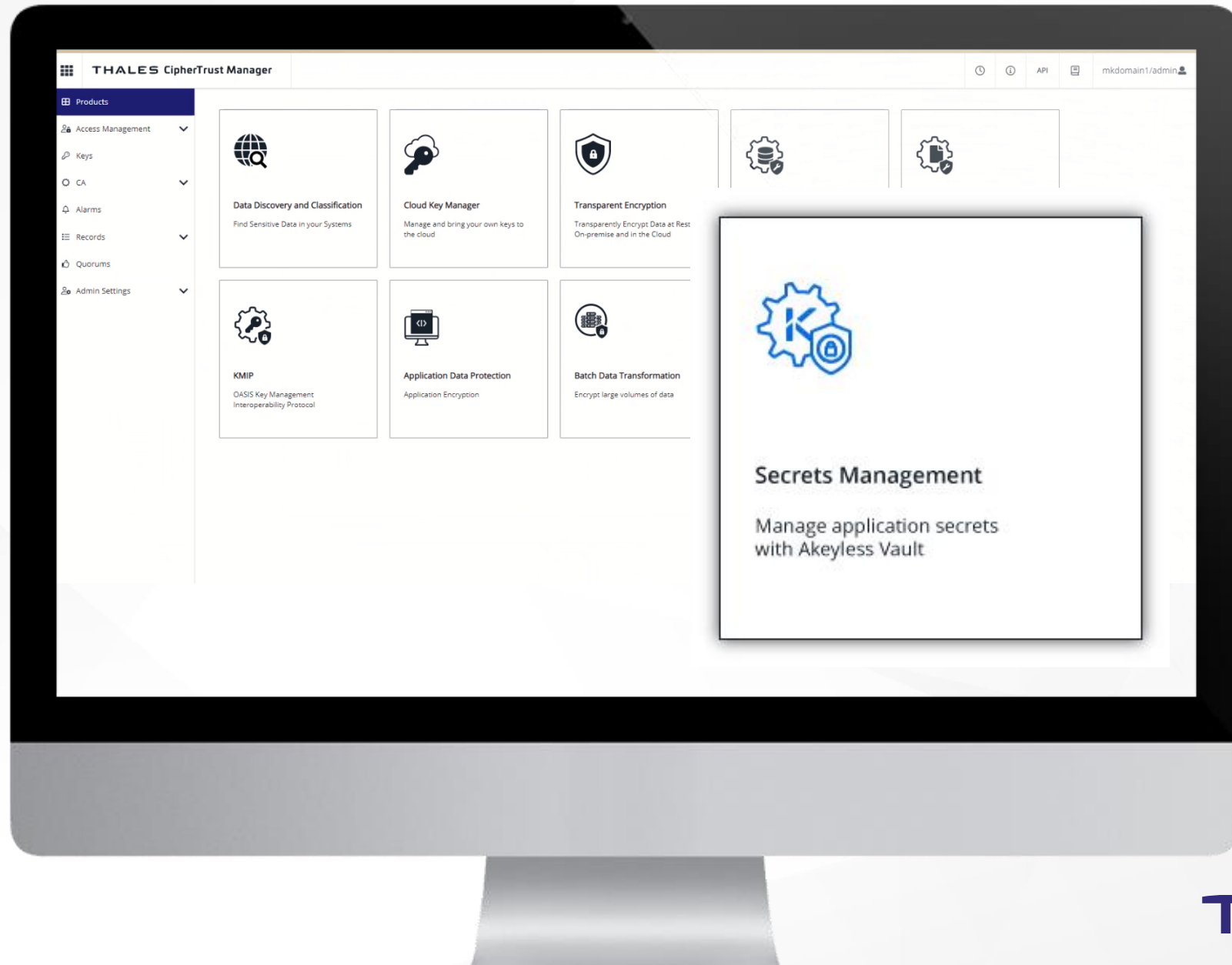
CipherTrust Manager Centralizes Management Across the Connectors



CipherTrust Data Security Platform use cases



Comprehensive Data Protection in One Tool



Secrets Management for DevSecOps: **Securing Secrets at Scale**



CipherTrust Secrets Management*

Automate access to

Secrets
Credentials
Certificates
API keys
Tokens

Centralized management for all
secret types

Easy to use for DevSecOps

SaaS (Software as a Service) scalability for
hybrid and multi-cloud environments

Automate processes for

Creating
Storing
Rotating
Removing

*Powered by Akeyless Vault



PROTECT

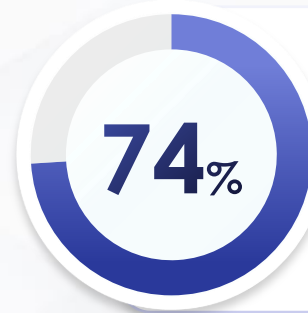
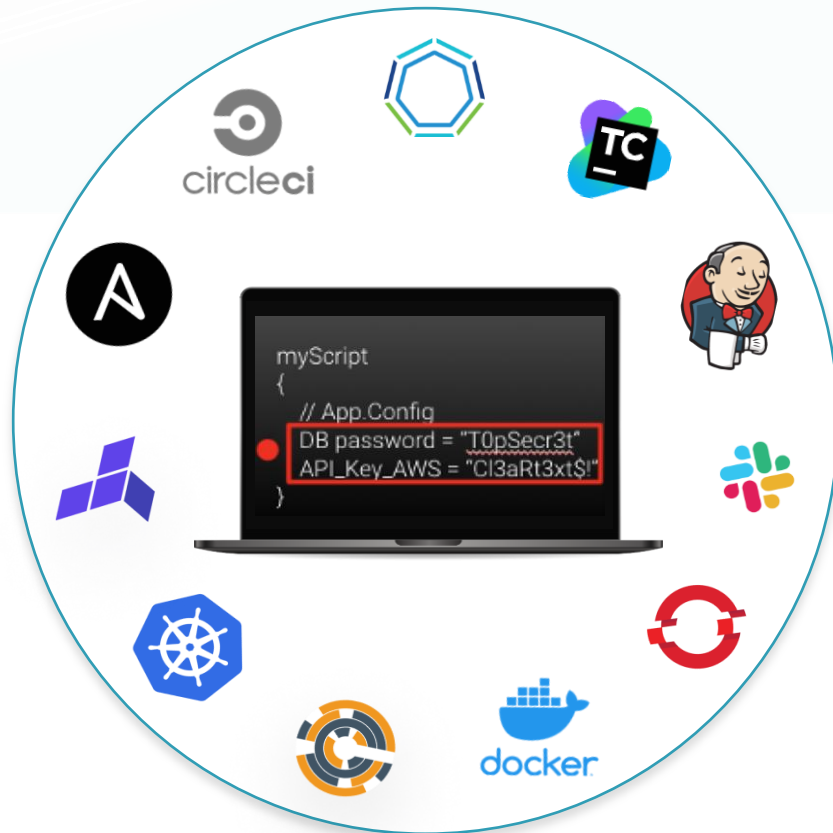
Machine-to-Machine Connectivity Requires **Massive** Use of Secrets

Application, Process, Script,
Batch Job, Services...



Massive Sprawl of Secrets

Source Code, Scripts, CI/CD, DevOps, Production

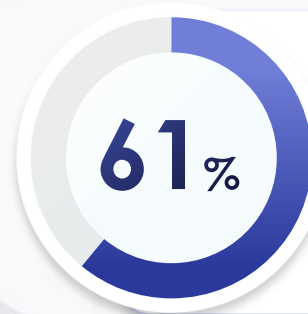


Operational Complexity - It's Chaos!

Don't know how many keys and certificates they have

Widespread Secrets Leaks

GitHub repositories have leaked keys.
Recent cases: Equifax, Mercedes, UN, LastPass



Mission-Critical

of all breaches involve hacked credentials.

What are Secrets?

Types of Secrets



Static secrets



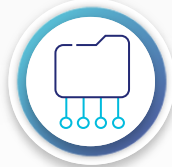
Dynamic secrets



SSH Keys



API Keys



Tokens

Humans

Machines

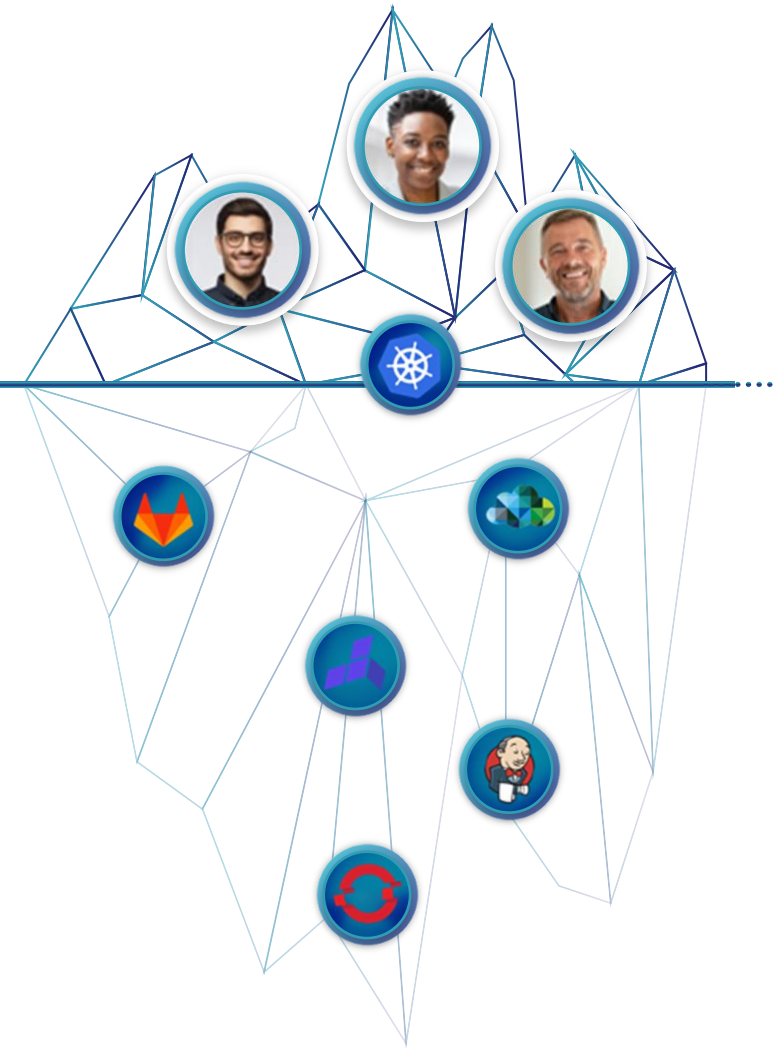
Virtual Machines

Microservices

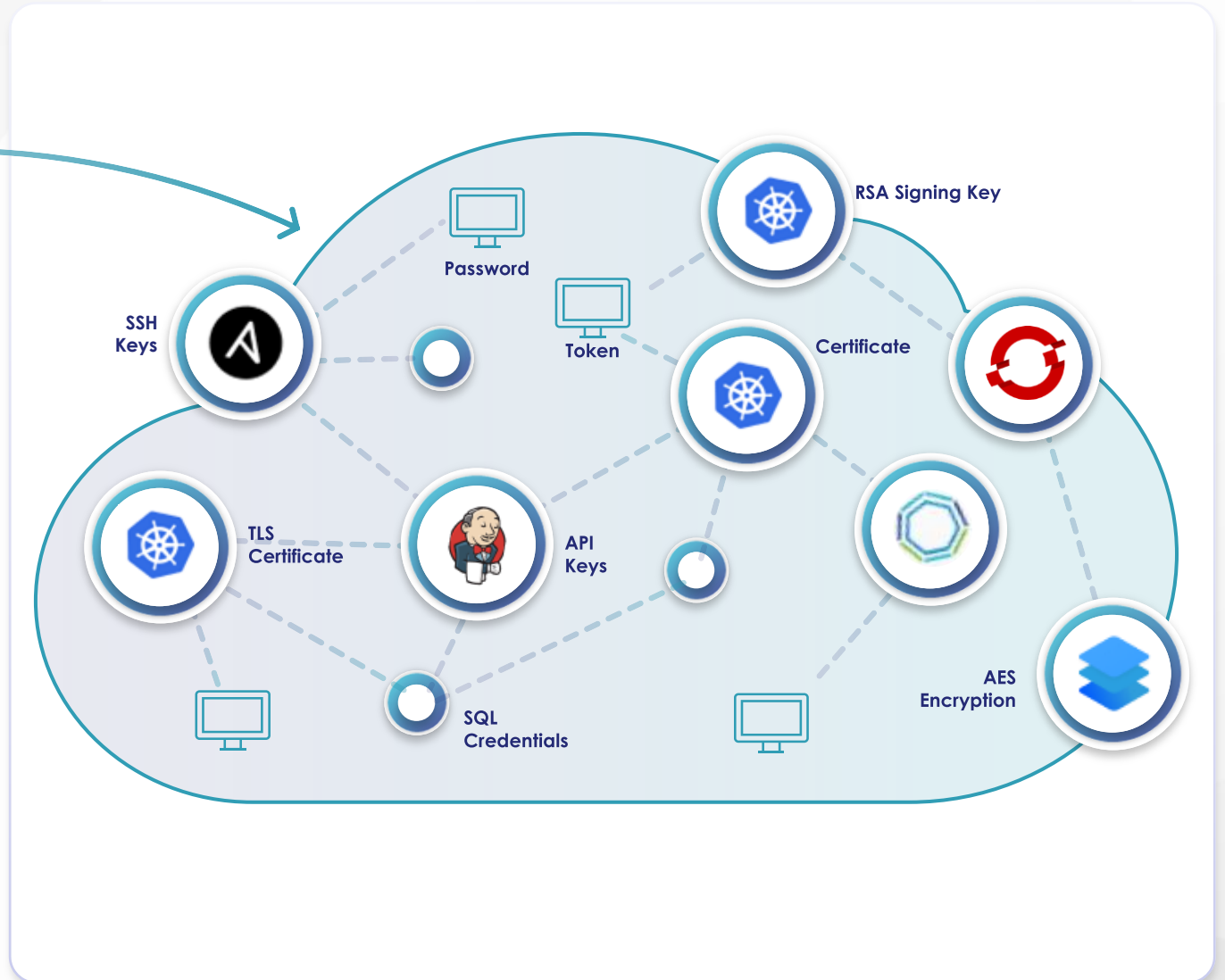
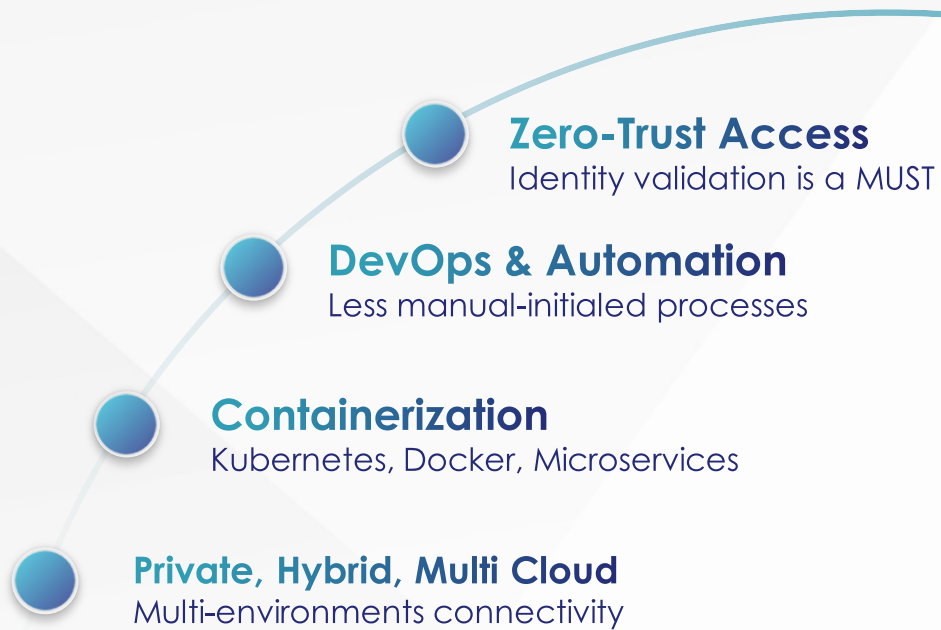
Applications

Containers

Scripts



Cloud: Massive Increase in Use of Secrets



Customer Challenge: Secrets sprawl

“62% of organizations do not know how many keys or certificates they have throughout their company.”

Keyfactor

Before the cloud

Physical and virtual machines



Employees

Machines

Today

Containers and microservices



42%

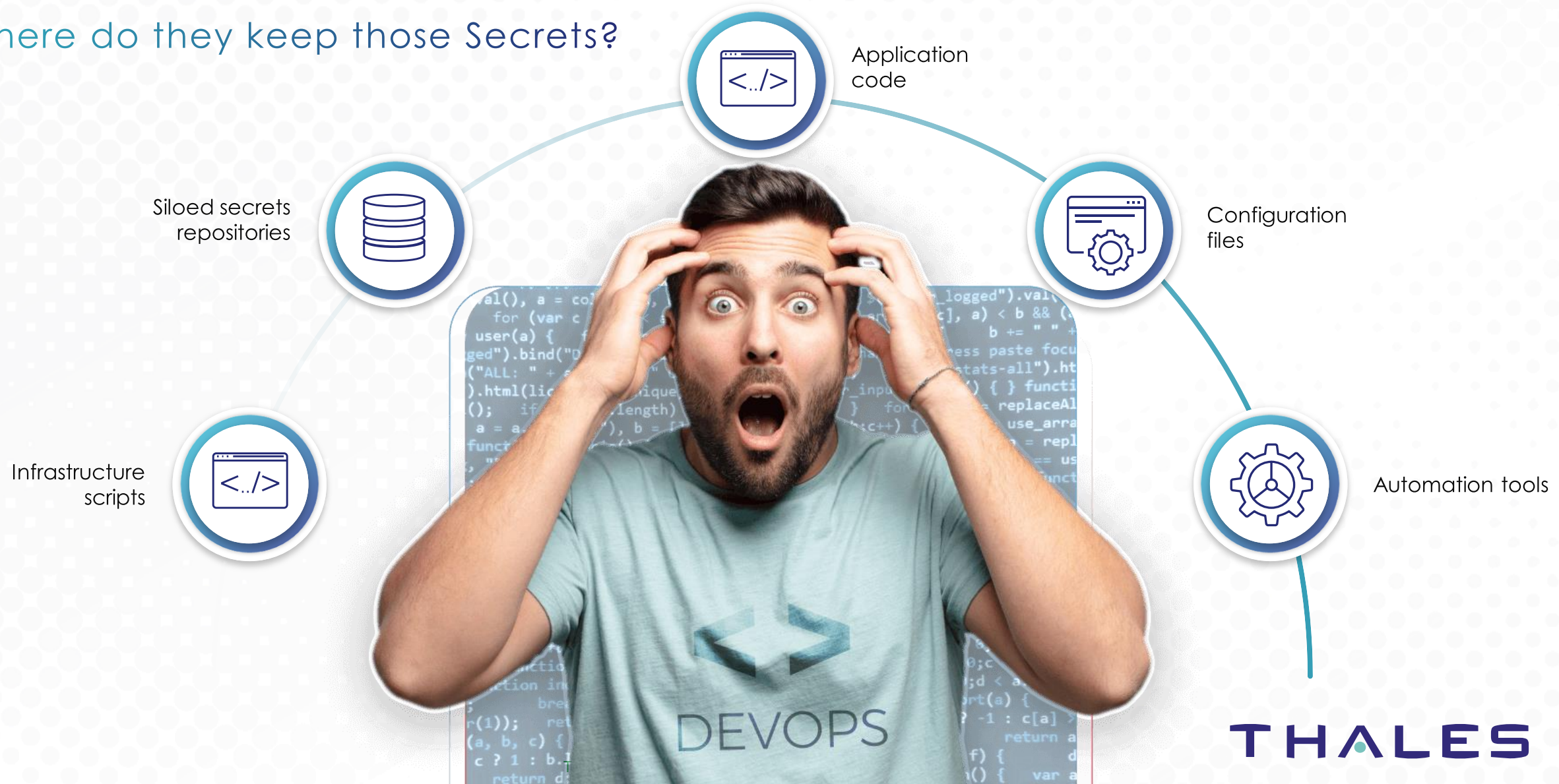
Machines YoY Growth
2021 Global CIO Survey

Employees

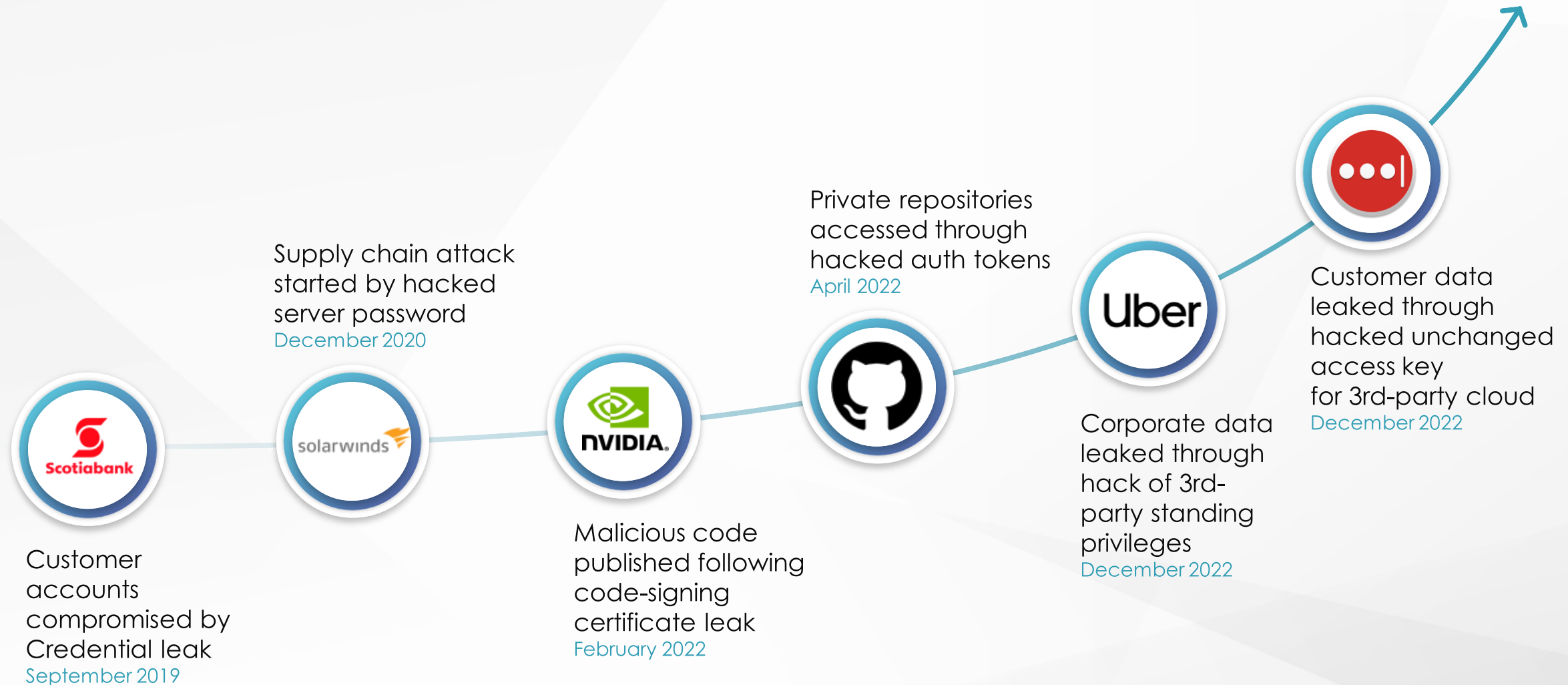
Machines

DevOps Teams Facing the Overwhelming Phenomenon of Secrets Sprawl

Where do they keep those Secrets?



Danger of the Status Quo: Breaches from Leaked Credentials



The Need to Invest in Secrets Management

We have invested so much to secure **human** identities and access

ORACLE onelogin **ilantus**

Access Management

CYBERARK okta

Identity Providers

MICROSOFT auth0

Multi-Factor Authentication

PingIdentity FORGEROCK

Identity Management

Delinea 

Privileged Access Management

SecurID An RSA Business  THALES

THALES

Gartner's View: Managed vs. Unmanaged Secrets



Unmanaged Secrets

Storing secrets in clear text

Not rotating secrets

Not revoking secrets

Reusing secrets

Unable to track secrets use

Rogue/unknown secrets



Secrets Manager

Vaulted and encrypted secrets

Automated rotation

TTL, lease time

Dynamic secrets

Full auditing

Ownership established

A Secure Vault for All Types of Secrets



Reduce the potential for human error
and consistently enforce security
policies across your organization

Enterprise-ready secrets management

Centralized management for all secret types

Easy to use, automated functionality for DevSecOps

Separation of duties to prevent breaches

Enterprise scalability for hybrid and multi cloud environments



Secrets store

Secure your credentials,
certificates and keys



Credential rotation

Maintain compliance and
security across you
organization



Secrets sharing

Collaborate more
securely and enable
auditing with secure
secrets sharing



Secure Kubernetes Secrets

Automate, encrypt, and
manage all your
Kubernetes secrets



Short-lived SSH Certificates

Simplify management of
SSH keys



Just-in-time credentials

Eliminate standing privileges
with temporary access

Customer Business Drivers



Mitigate
risk

Reduce vulnerabilities
Accelerate time
to compliance



Improve customer
experience

Protect and control
customer data without
impacting the
customer experience



Decrease
cost

Improve operational
efficiency
Consolidate on
a data security
platform versus using
point solutions

Securing Secrets in Every Environment



Fits all environments:
Hybrid & Multi-cloud



Connectivity
to third party tools
and environments



Unified secrets management
across teams and technologies



Exclusive ownership
of secrets and secret access

Customer Outcomes



Centralized management for all Secret types

The management of secrets including automatic rotation SSH, AWS, Azure, Database, Custom, LDAP, Docker and Manual Rotation.

Log reporting UI and analytics.

FIPS 140-2 Level 3 Root of Trust with HSMs.



Lower TCO

No hidden costs such as infrastructure, time, resources and support.

SaaS model quickly scales across departments and regions.



Easy to use for DevOps

Quick deployment and shorter learning curve with built-in integrations to a host of DevOps tools.

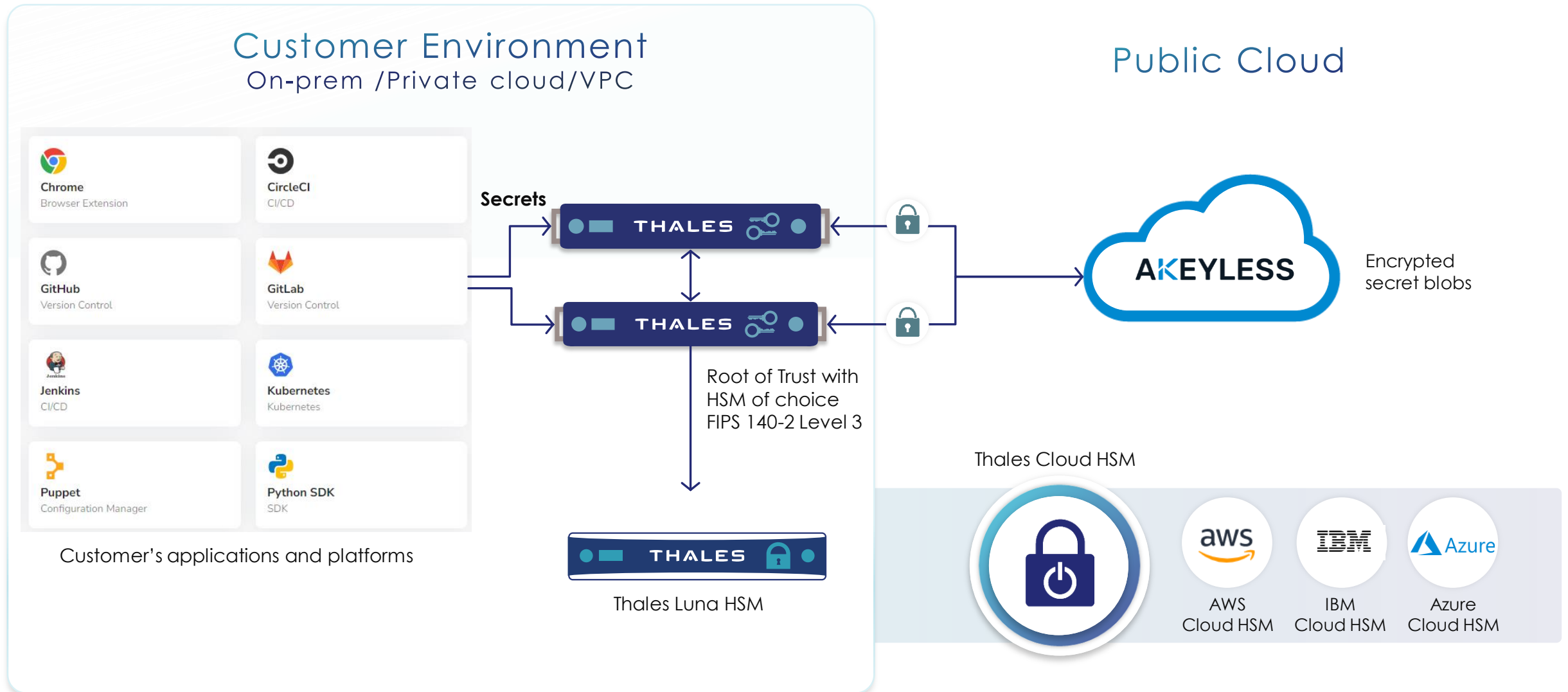
CipherTrust Manager provides **one straightforward UI** to manage all data protection features, providing for **higher efficiency** and compliance to **data protection mandates**, such as those relating to digital sovereignty.

Technology Overview



THALES

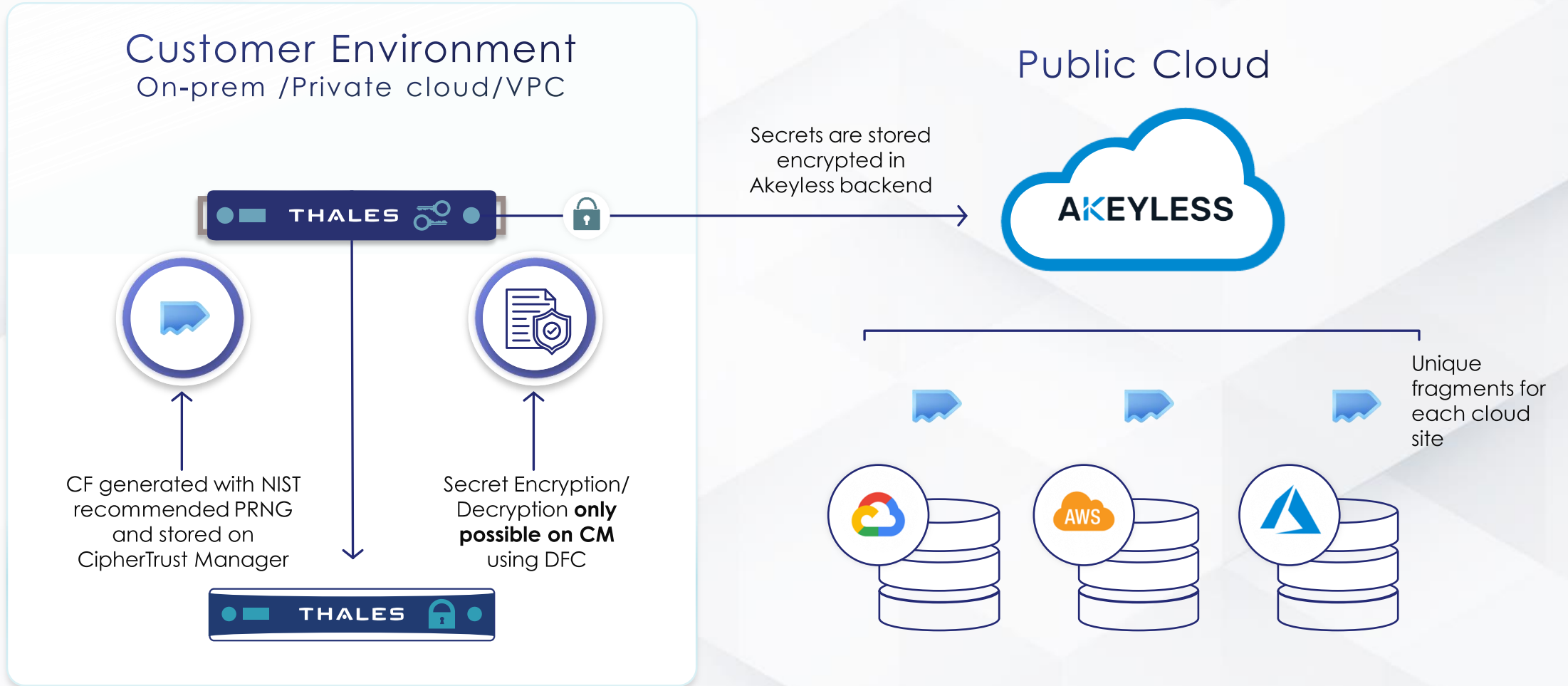
CipherTrust Secrets Management Deployment





Distributed Fragment Cryptography (DFC)

CipherTrust Secrets Management Deployment



HSM RoT for CM



Buyer Personas



InfoSec Director/CISO

Their challenge:

- Manage security risk and compliance
- Adoption of security solutions across org
- Integrate into DevOps process -- keep everything working smoothly
- Keep costs low
- Support solutions with small team
- Support compliance and regular audits

Our winning arguments

- **SaaS solution: Lower cost in resources - frees up security team**
- **Fast deployment & low maintenance**
- **Scales easily**
- **High visibility for audits and centralized control across the organization**
- **Multi-tenancy reduces bottlenecks for business units and teams**
- Multi-cloud and on-prem
- Doesn't disrupt DevOps flow, working with standard DevOps tools: higher adoption
- Supports a wide range of necessary security functionality, with automated rotation and dynamic secrets



DevOps Engineers

Their challenge:

- Rising pressure to innovate & develop faster
- Not enough resources (people, time, infrastructure) to deliver on competing requests
- Managing competing expectations – speed versus stability versus security
- Unnecessary manual security requirements
- Need to manage secrets across a wide variety of tools

Our winning arguments

- **Doesn't slow DevOps down** - easily use your existing tools to inject secrets (Proof: our [integrations page](#))
- **SaaS** for quick deployment and simple maintenance
- **SDKs and APIs** for streamlined integration
- **Automated functionality** for the development team, saving time:
 - Automated secret injection
 - Rotated secrets
 - Integration with the CI/CD pipeline
- **Self-service and multi-tenancy** for DevOps and other teams -- less need for Security resources, supports team independence



Thank you.

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