Keyfactor Product Briefing

What's new, what's next, and what's on the roadmap ahead

KEYFACTOR

Before we start

01 Questions

Drop your questions in the “Q&A” tab at any time

02 Poll Questions

We encourage you to engage and provide your feedback

03 Attachments

Check out the attachments and links after the webinar

Poll #1

What are current strategic priorities for your team/business?

(Select all that apply)

1. Generative AI
2. Dashboarding & Metrics
3. 3rd Party Risk Management
4. Cloud Migrations
5. Extending IAM's Cybersecurity Value
6. Post Quantum Cryptography

*Have another idea? Drop it in the chat!

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Here's what we'll cover

(10 mins)	■ Intro: Product Roadmap Milestones
(10 mins)	■ Documentation: Updates and live demo
(10 mins)	■ Command 12: June updates
(10 mins)	■ EJBCA 8.3: June updates
(10 mins)	■ Signing: Future of Signing at Keyfactor
(15 mins)	■ Insider Updates: Become an Insider, Insider Awards, and Upcoming Events
	■ Q&A: Open discussion

Roadmap Milestones and Themes, 2024

Mark Thompson, SVP of Product Management

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2024 Roadmap Themes

Containerization Modernization

- Command
- EE EJBCA
- Next Gen Hardware Appliance

Post Quantum

- BC Support & FIPS
- SignServer
- EJBCA
- Hybrid Certs
- Command PQ Management

Self Service

- Command SaaS Light
- Enhanced Self-service workflow
- Guided Enrollment
- Efficient Deployment

FedRAMP

- FedRAMP
- CLAaaS

Analytics / AI

- Advanced Cert and Key Discovery
- RoT Management

Expand the ways we deploy platforms
Efficient cloud solutions
Updates to hardware & software stacks

cle Management from cloud
ies and Agency suppliers

d
nership

Documentation Updates

Magnus Normark, Senior Product Manager

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Product Documentation

doc.primekey.com

=> docs.keyfactor.com

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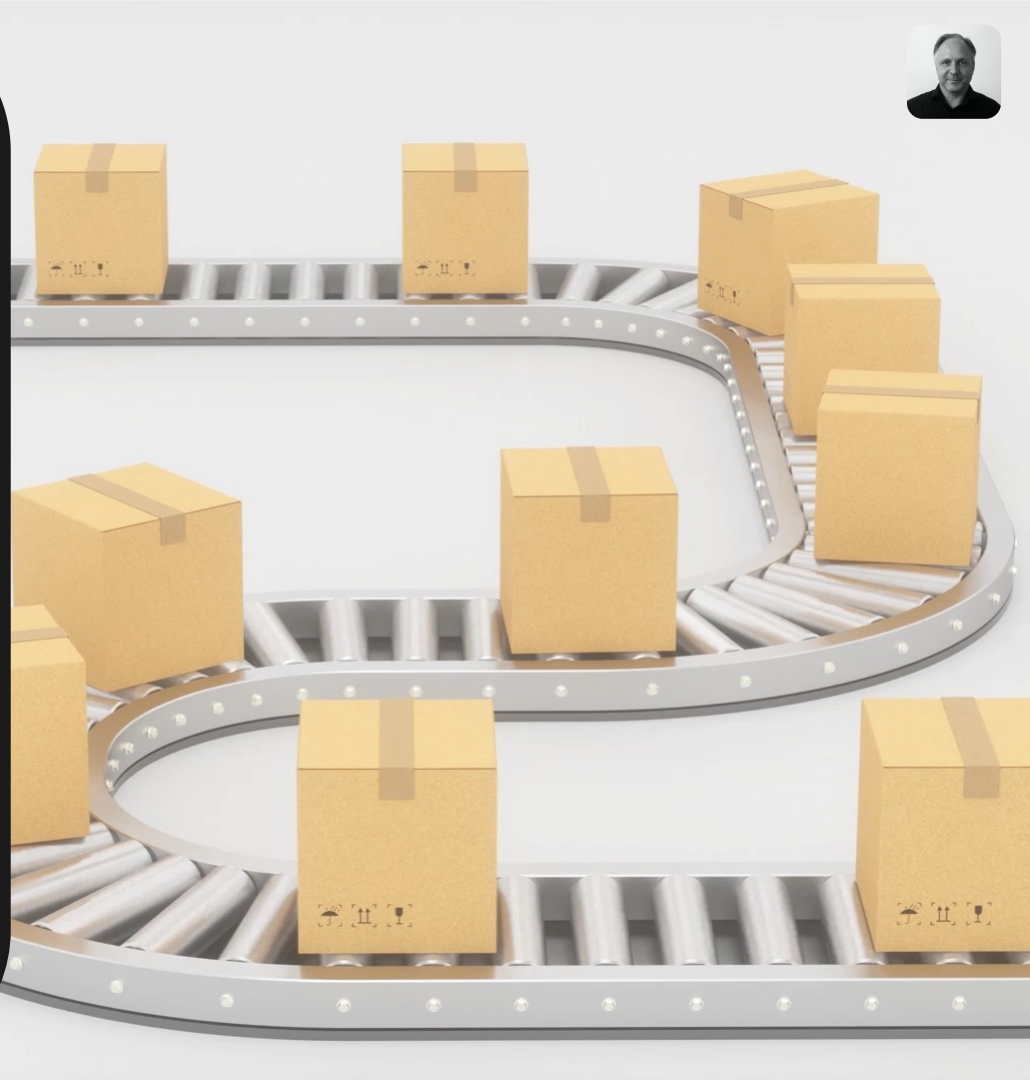
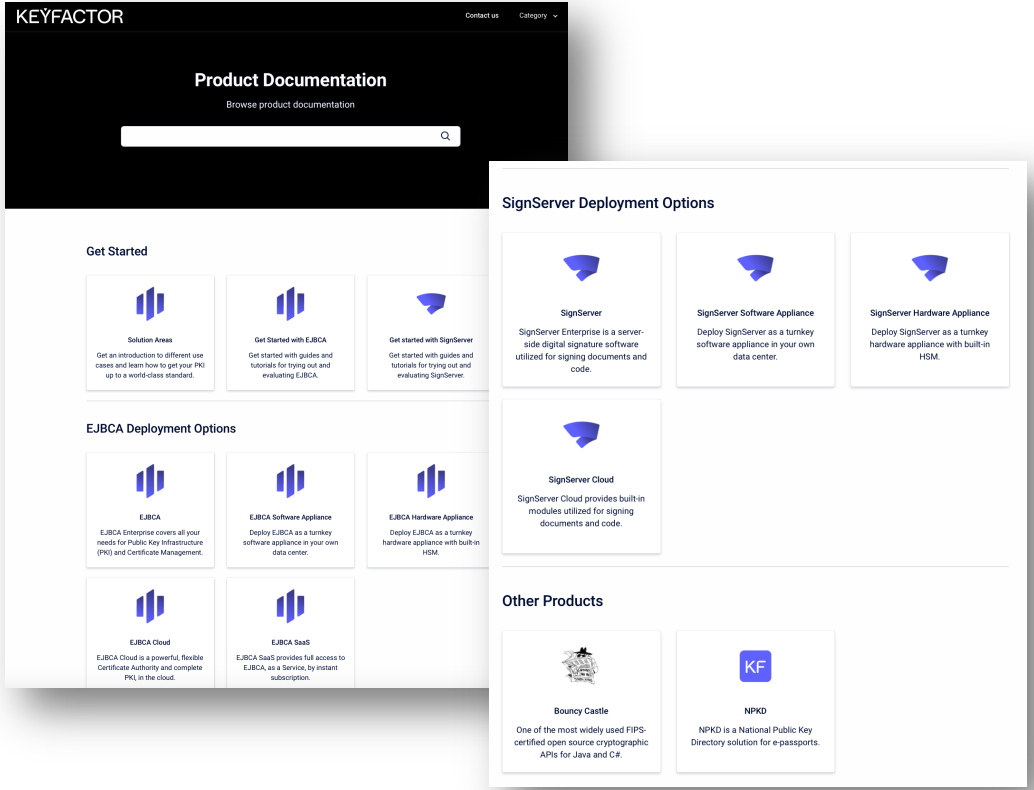


April 2024: doc.primekey.com

- ✓ EJBCA 8.2
- ✓ SignServer 6.2
- ✓ Bouncy Castle



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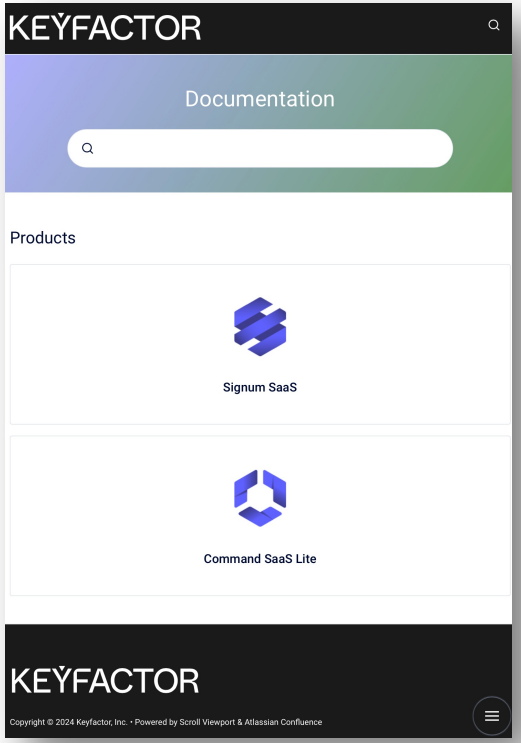
April 2024: docs.keyfactor.com

- ✓ Signum
- ✓ Command SaaS Lite



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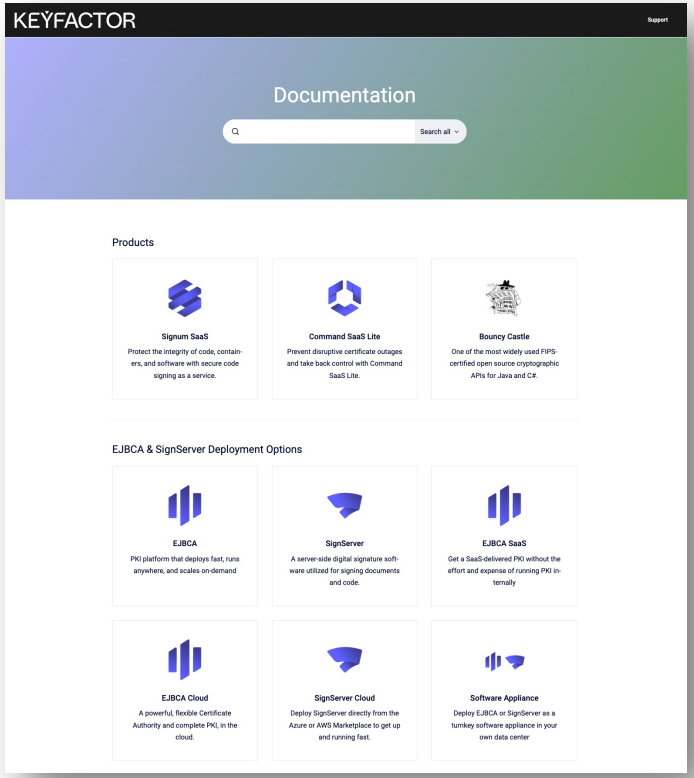
May 2024: docs.keyfactor.com

- ✓ Signum
- ✓ Command SaaS Lite

+

- ✓ EJBCA 8.3
- ✓ SignServer 6.3
- ✓ Bouncy Castle



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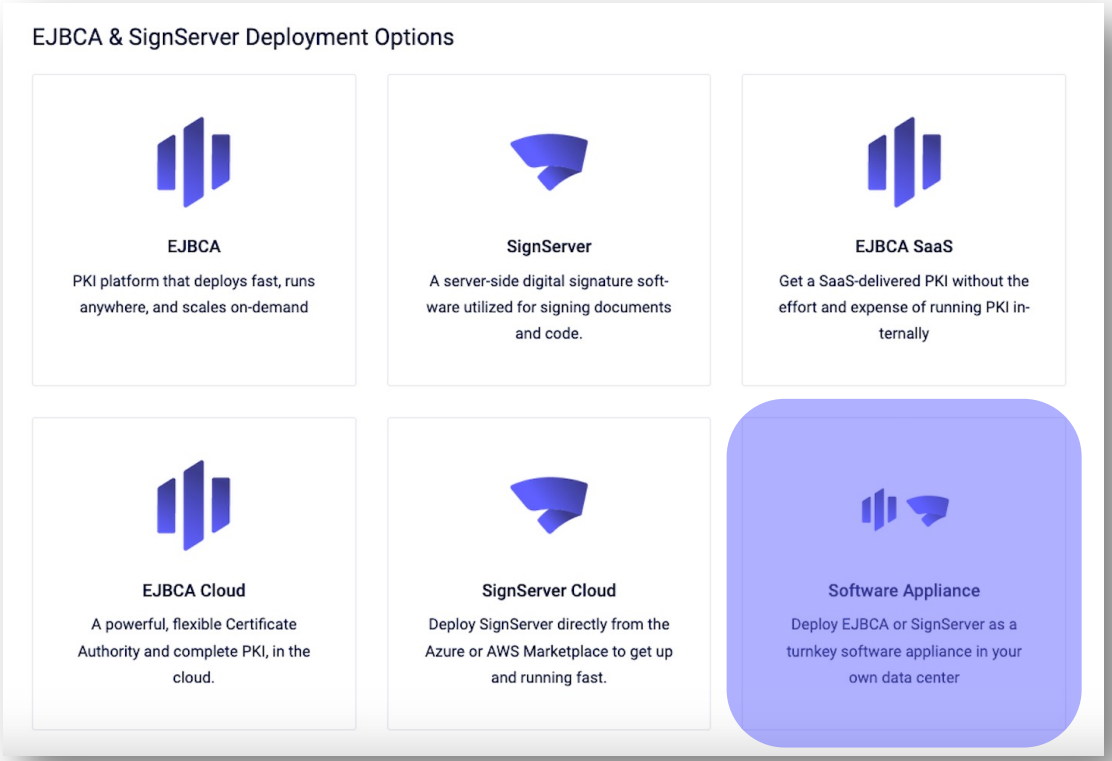
May 2024: docs.keyfactor.com
- Let's take a closer look



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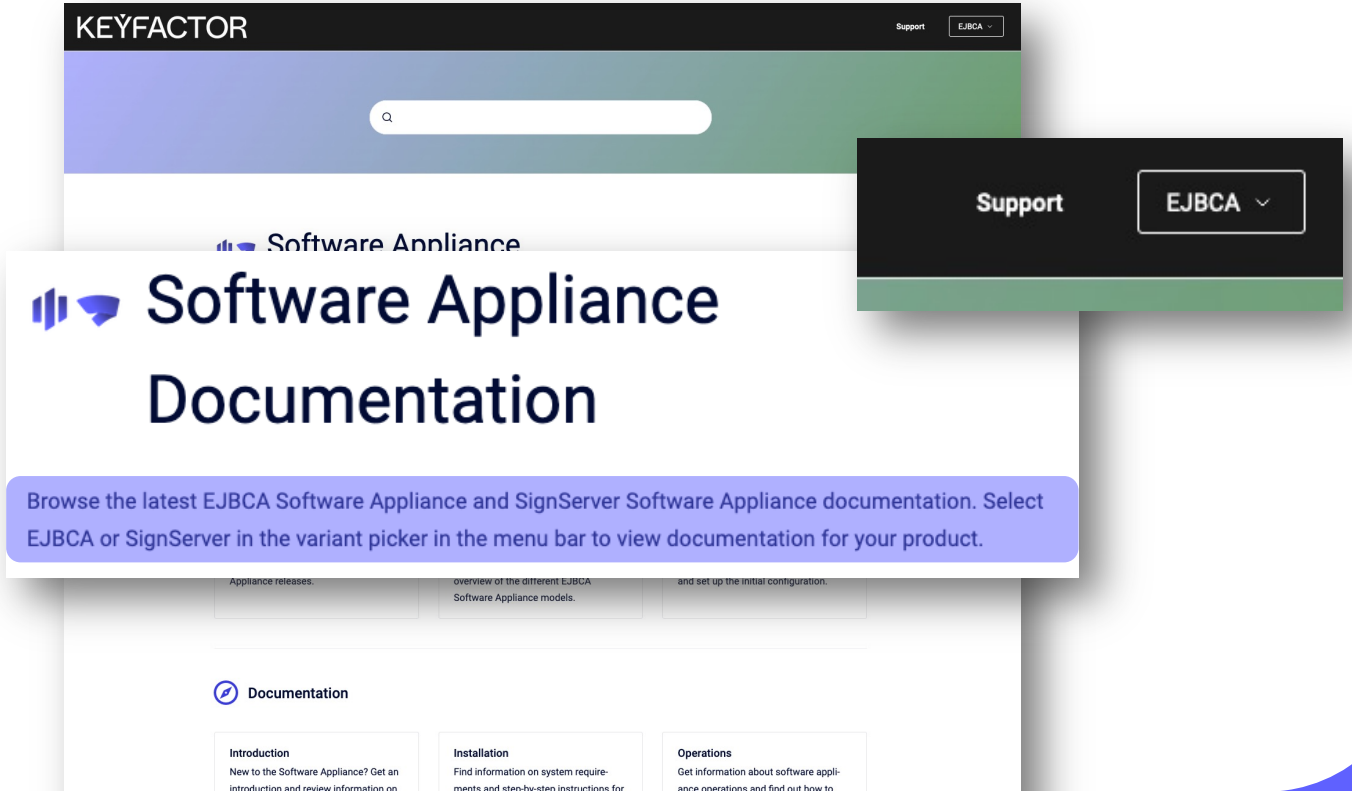
May 2024: docs.keyfactor.com
- EJBCA & SignServer as variants of SW Appliance



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Live demo

Say hello to

http://docs.keyfactor.com

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Click to stop screen recording

KEYFACTOR

Support

Documentation

Search all

Products

Signum SaaS

Protect the integrity of code, containers, and software with secure code signing as a service.

Command SaaS Lite

Prevent disruptive certificate outages and take back control with Command SaaS Lite.

Bouncy Castle

One of the most widely used FIPS-certified open source cryptographic APIs for Java and C#.

EJBCA & SignServer Deployment Options

Command 12 Release

Sami Van Vliet, Principal Technical Product Manager

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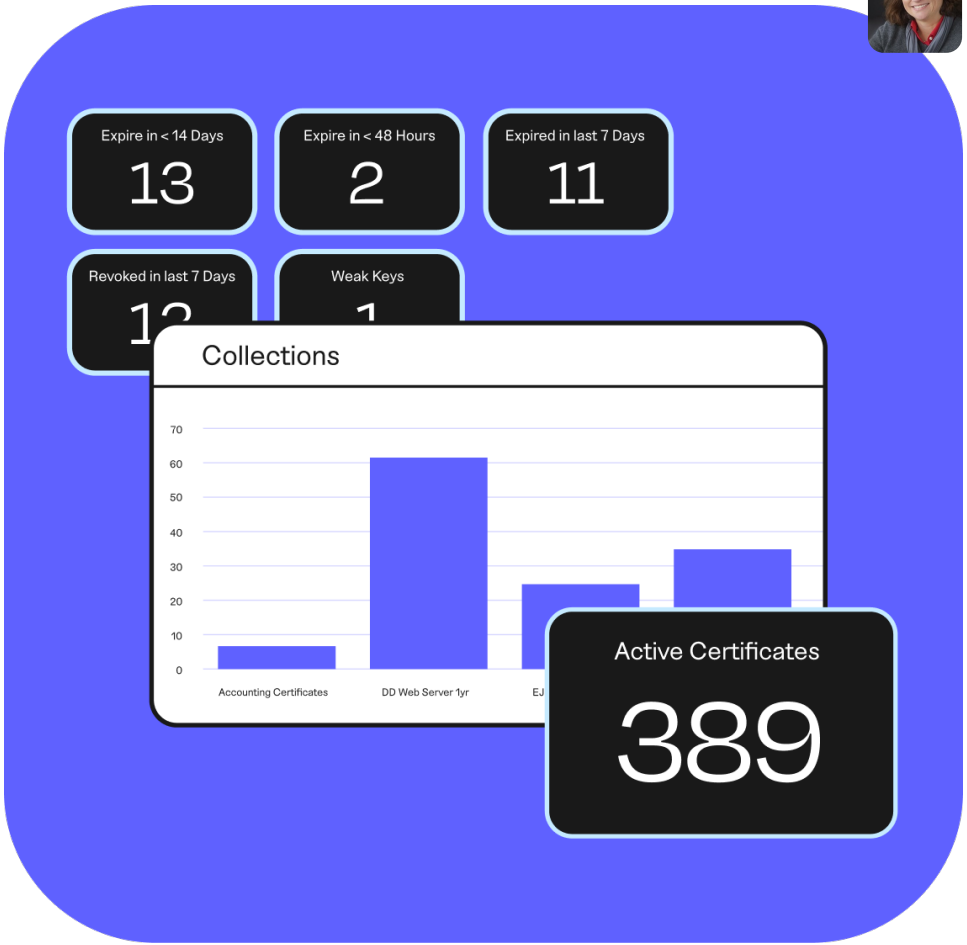
Keyfactor
Command

What's new, what's next

NEW RELEASE SCHEDULE
A new release schedule to deliver more consistent, predictable software updates

NEXT MAJOR RELEASE
What's coming in the next major software update, Keyfactor Command 12



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Keyfactor Command

How we release updates today

- Delivers major updates, but infrequently
- Difficult to predict upgrade schedule

Major A significant update to the product, including a full version update	Every 12+ months	▪ Large roadmap features ▪ Smaller features to address customer requests/tech debt ▪ Bug fixes
Incremental Includes improvements and bug fixes to build upon major release	Every 1-2 months	▪ Small, but high-priority features ▪ High-priority bug fixes
Hotfix Urgent fixes to address business-critical issues	As needed	▪ Critical bug fixes

Keyfactor Command

Moving forward, what to expect

- More predictable, time-based releases versus feature-based
- More frequent delivery of new features and capabilities

Quarterly Steady updates deliver new features and bug fixes regularly	~ Every 3 months	▪ Features to address customer requests ▪ Features to address technical debt
Monthly Focused entirely on improvements and fixes	~ Every 30 days	▪ Bug fixes
Hotfix Urgent fixes to address business-critical issues	As needed	▪ Critical bug fixes that cannot wait for monthly release

New in Command 11.4-5

Updates since March

Documentation

The documentation is no longer embedded in the product, reducing the file size significantly. Now, when you select Documentation and Help within the Management Portal, you will be directed to the Keyfactor Software & Documentation Portal (https://software.keyfactor.com).

Requester Can Approve

Workflow approval step includes a new Requester Can Approve parameter that, when disabled, prevents the initiator of a workflow from being one of the approvers on that specific workflow instance.

Multiple OAuth IdP Support

The configuration wizard now allows creation of multiple OAuth identity providers, any of which may be used to authenticate to Keyfactor Command.

Orchestrator Deletion

Orchestrators may now be deleted. Any associated data such as certificate stores, jobs, and SSH servers will automatically be removed.

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Keyfactor Command

What's Coming in Command 12

- New CA configuration from the portal
- Ability to modify collection display order
- Alerts reworked for workflow
- Updates to enrollment and revocation workflows
- New certificate store container inventory workflow

EJBCA Enterprise 8.3

Magnus Normark, Senior Product Manager

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Keyfactor EJBCA

What's coming in EJBCA 8.3

Quantum-ready capabilities

- Hybrid certificate support
- Next level PQC-transition preparations

EJBCA Container Set

- Focus on Helm-based deployment automation for customer Kubernetes deployment
- Best practice separation of CA, RA, and VA

Updates to product documentation

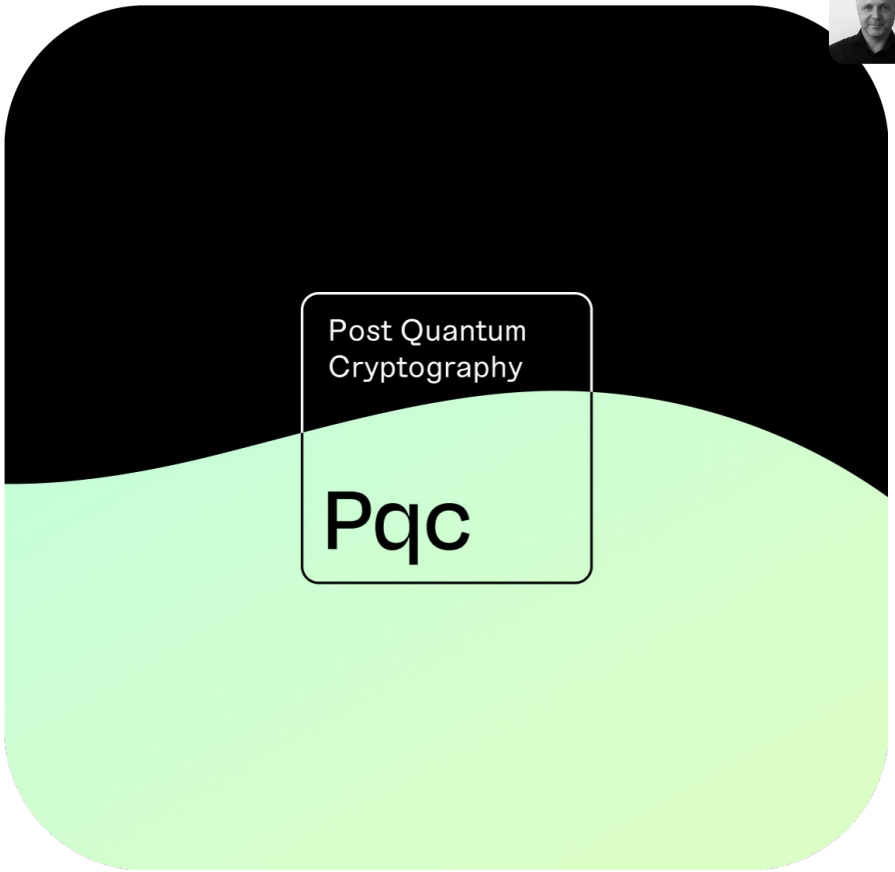
- Migration to docs.keyfactor.com
- Evolution and restructuring to cover container deployment
- CycloneDX SBOM

Other changes

- MS Auto-enrollment improvements
- EJBCA UI menu aligned with Keyfactor products

Coming in EJBCA 8.3

Hybrid certificates to enable PQC



What is it?

Enables backward compatible combination of 2 sets of keys, algorithms, and signatures with one certificate.

How does it work?

Through the use of a non-critical extension, combines quantum-safe algorithm with classic algorithm.

When will it be available?

Available in EJBCA 8.3 through new settings on the CA and certificate profiles.

*Not for production use, test in a safe lab environment

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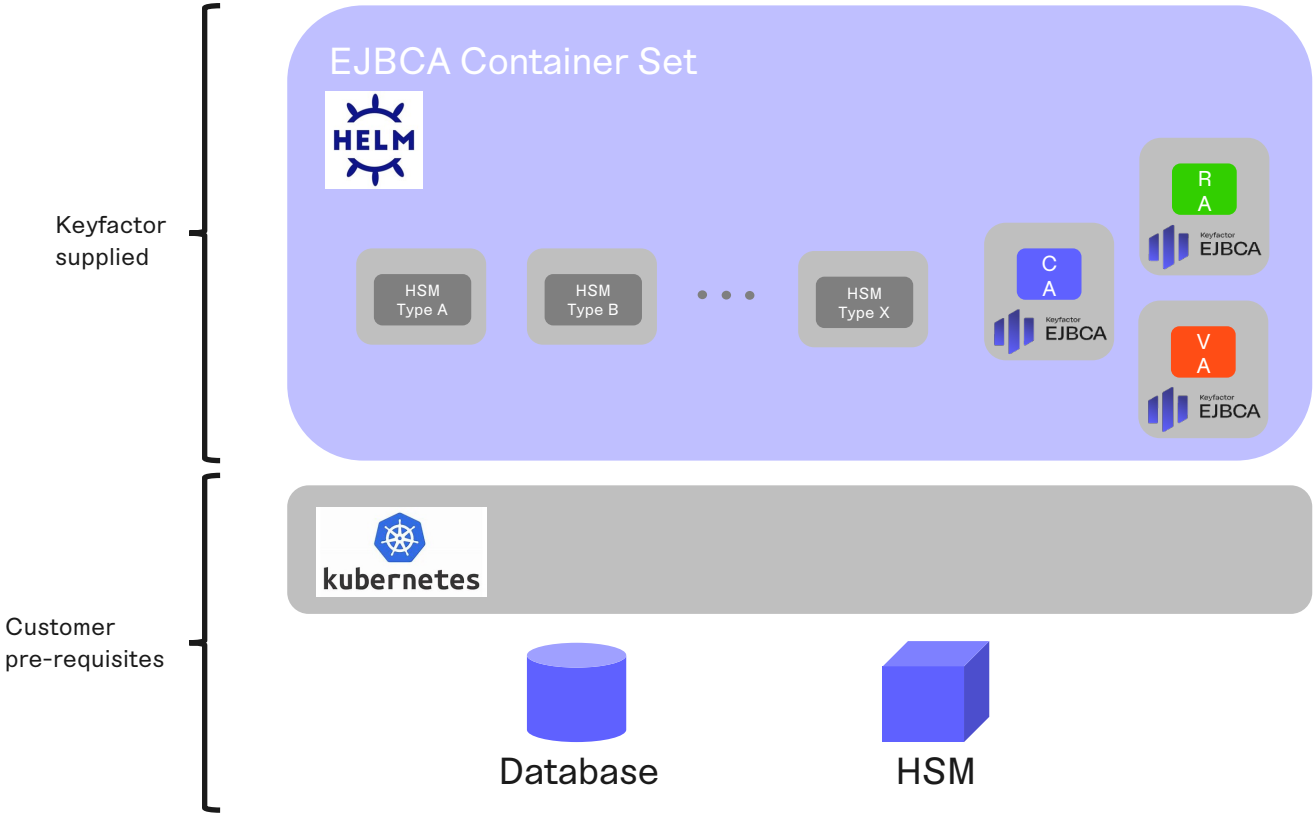
EJBCA Container Set



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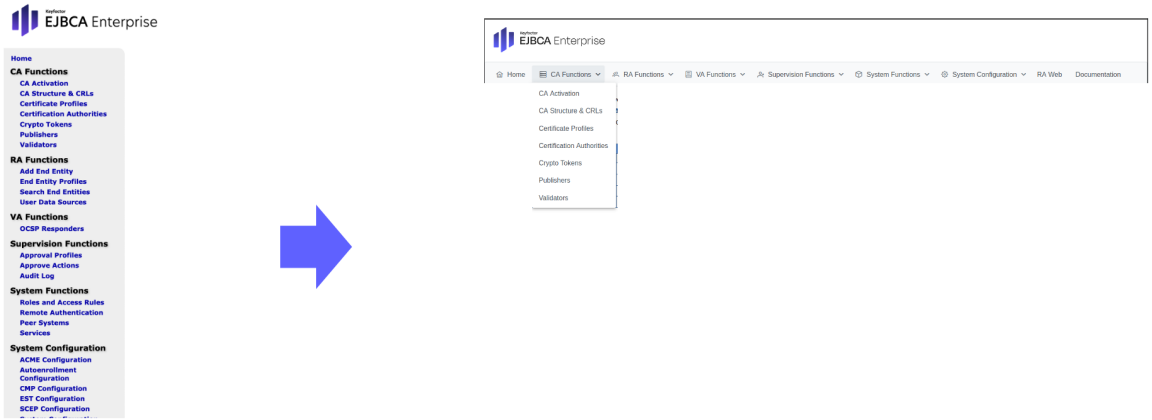
EJBCA 8.3 – Other Changes

- Microsoft Auto-enrollment improvements
  - Centralized configuration enables operational enhancements in multi-domain and multi-RA setups
  - Enrollment of certificates using elliptic curves algorithm now supported
- Admin Web UI now on top (same menu structure)



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EJBCA 8 / SignServer 6 vs EJBCA 9 /SignServer 7: Tech Stack Upgrade

EJBCA 8 / SignServer 6
JBOSS EAP 7.4, Wildfly 24/26
Java 11, Java 17
OS

EJBCA 9 / SignServer 7
JBOSS EAP 8.0, Wildfly 32+
Java 17, Java 21
OS

Future of Signing at Keyfactor

Ben Dewberry, Product Manager

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Current vs future state

Keyfactor signing solutions

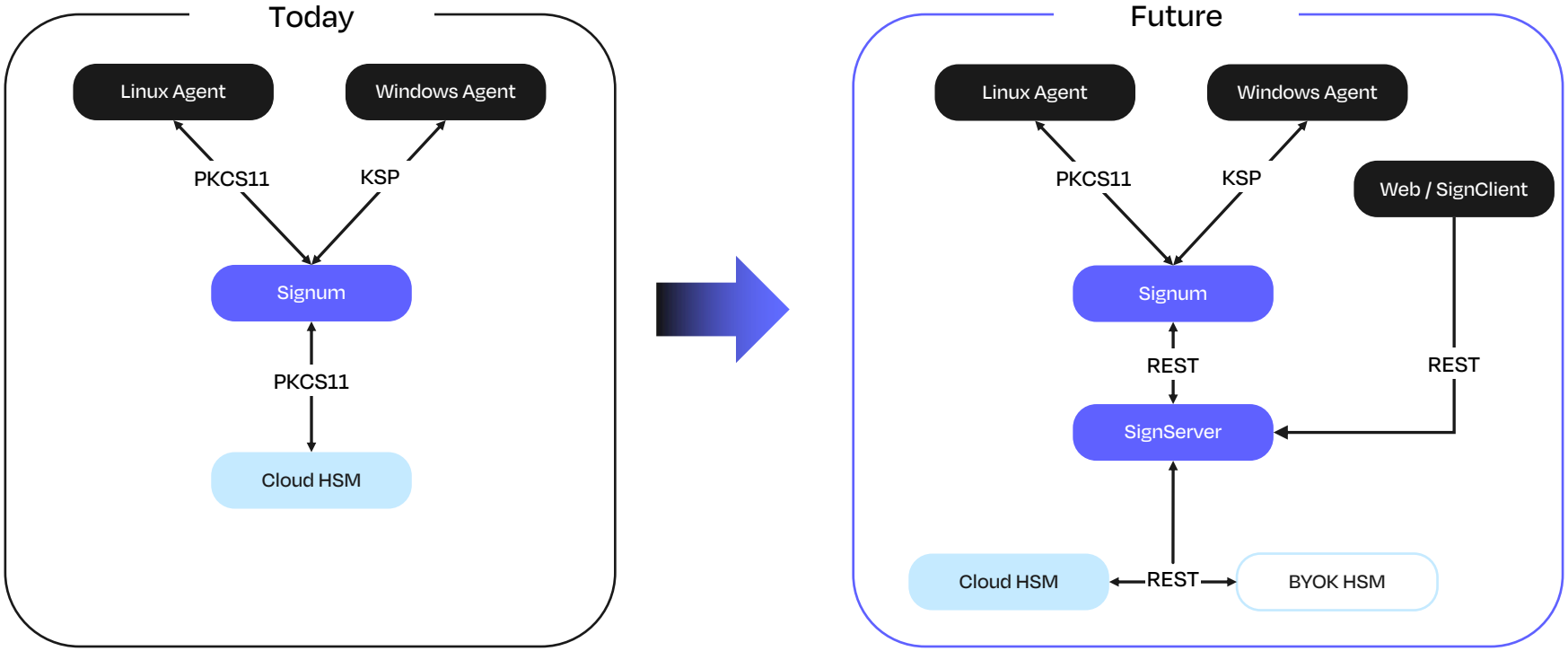
Keyfactor Signum

Keyfactor SignServer

SaaS	Hardware	Software	Cloud	Community
SaaS-delivered	Turnkey appliance	Turnkey appliance	Self-managed	Free, open-source
✓ Signum SaaS powered by SignServer A combined signing solution in the cloud	✓ SignServer HW SignServer as a turnkey hardware appliance w/ HSM	✓ SignServer SW SignServer as a turnkey software appliance	✓ SignServer Cloud SignServer as a turnkey software appliance	✓ SignServer CE Open-source signing available as a container

Turnkey → Self-configured

New Architecture



Why is signing important?

Risk

- Supply chain attacks are have increased three-fold from 2021: 45% of organizations are expected to experience attacks in 2025 (Gartner)
- Provides integrity and authenticity to your artifacts
- Suggested and/or required by frameworks and best practice guides to mitigate risk

Regulations

- Supply-chain Levels for Software Artifacts - SLSA
- Secure Software Development Framework NIST-800-218
- EU Cyber Resiliency Act – CRA

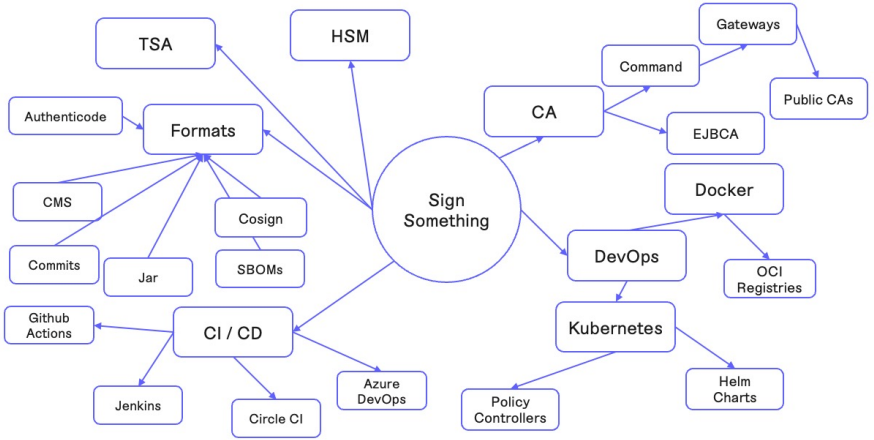
Development Complexity is Accelerating

2000s

Self-signed cert (if at all)

2010s

Sign with a key issued from internal MSFT CA or other CA



Today: Accelerating complexity in a continuously-changing environment

Keyfactor SignServer

What's coming in SignServer 6.3

Container-based deployments

- Focus on Helm-based deployment automation for customer Kubernetes deployment
- Signing and Time Monitoring mode for container

Updates to product documentation

- Migration to docs.keyfactor.com
- Evolution and restructuring to cover container deployment
- CycloneDX SBOM

Other enhancements

- MS SQL database support
- REST API extensions

SignServer Software Bill Of Materials (SBOM)

- 3rd party libraries in SW distribution listed in documentation
- Container SBOM in CycloneDX format starting with SignServer 6.3


```
{
  "bomFormat": "CycloneDX",
  "specVersion": "1.4",
  "serialNumber": "urn:uuid:3827937f-7c5d-477e-93f2-47418d3bd723",
  "version": 1,
  "metadata": {
    "timestamp": "2024-04-05T10:47:38+02:00",
    "tools": [
      {
        "vendor": "anchore",
        "name": "syft",
        "version": "v0.46.3"
      }
    ],
    "component": {
      "bom-ref": "aa4537d0a7c26bfa",
      "type": "container",
      "name": "art.primekey.com/con-develop-container/primekey/signserver-ee:6.3.0.Beta1",
      "version": "sha256:a7129f3f735bf1141adb47026421c20f3bac96c7849ed8c27892f3a7fb44fbb9"
    }
  },
```

```
▼ Object
    bomFormat: "CycloneDX"
    specVersion: "1.4"
    serialNumber: "urn:uuid:3827937f-7c5d-477e-93f2-47418d3bd723"
    version: 1
  ▶ metadata: Object
  ▼ components: Array[1329]
    ▶ 0: Object
    ▶ 1: Object
    ▶ 2: Object
    ▶ 3: Object
    ▶ 4: Object
    ▶ 5: Object
    ▶ 6: Object
    ▶ 7: Object
    ▶ 8: Object
    ▶ 9: Object
    ▶ 10: Object
```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Keyfactor Signum

What's coming in Signum 4.10.0

Container-based Agent

- A deployable container of the Signum Linux Agent.
- Can be modified to accommodate multiple different signing tools.

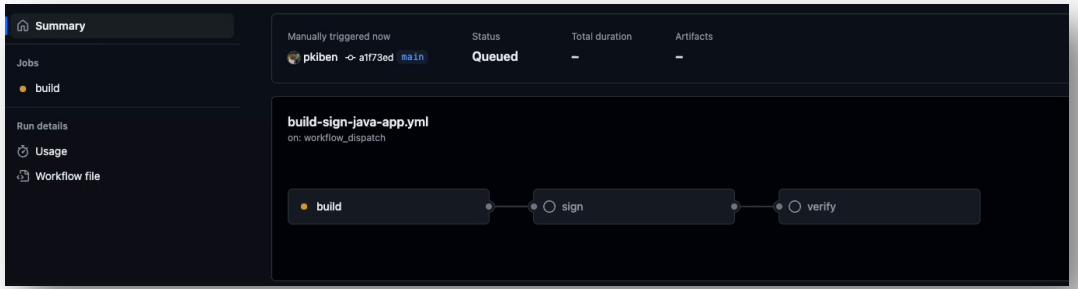
Updates to Agents

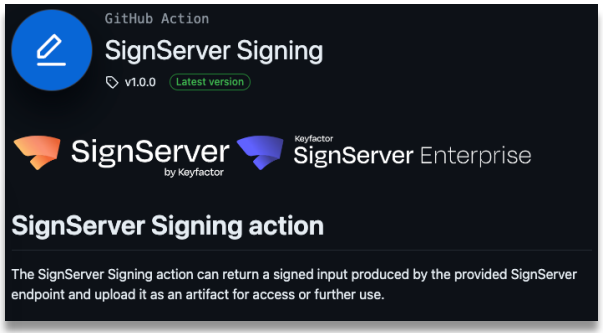
- Proxy support in the Linux Agent
- Migrated Linux Agent to dotnet 8.
- Improved CLI feedback

Signum Admin Web

- Completely updated the UI of the Admin Web to bring consistency across Keyfactor products.

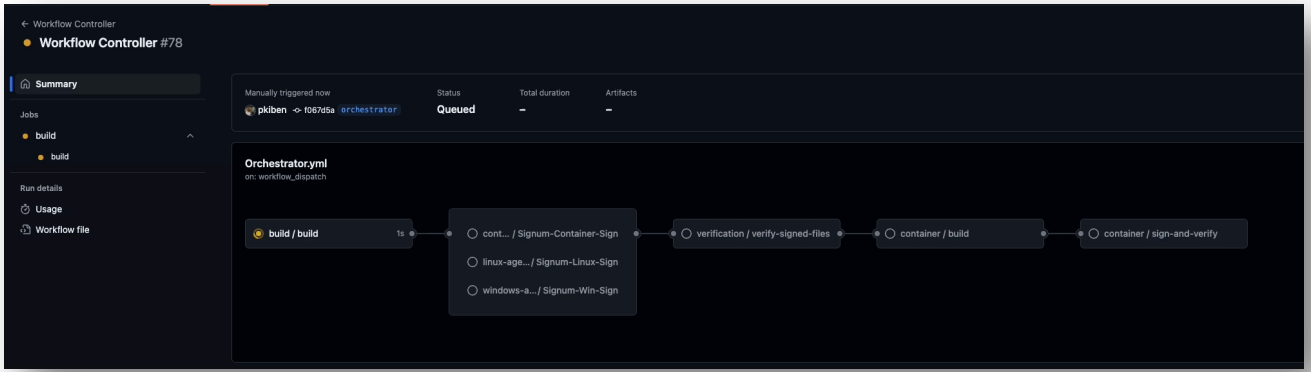
SignServer GitHub Action Demo

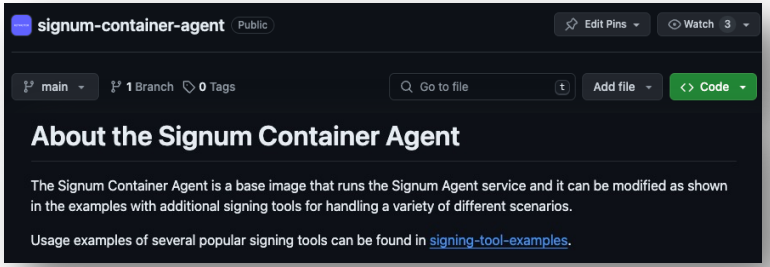





```yaml
- name: SignServer Signing
  uses: Keyfactor/signserver-signing-action@v1.0.0
  with:
    endpoint: ${{secrets.SIGNSERVER_URL}}
    file-path: ${{github.workspace}}/HelloWorld.jar
    worker-name: JArchiveSigner
    worker-type: JArchiveSigner
    client-cert: ${{github.workspace}}/client-cert.p12
    password: ${{secrets.SIGNSERVER_CLIENT_CRED}}
```

Signum GitHub Action Demo





Want to double click?

KEYFACTOR

Our Products

Keyfactor's solutions enable enterprises to establish digital trust – then maintain it.

Issue certificates

Keyfactor EJBCA Enterprise

Flexible and highly scalable PKI platform

Manage certificates

Keyfactor Command

Certificate lifecycle automation to prevent outages

Keyfactor Command for IoT

IoT identity management to secure connected devices

Keyfactor Command SaaS LITE

Lightweight certificate management

Sign code and artifacts

Keyfactor SignServer Enterprise

High-speed signing engine for IoT and manufacturing

Keyfactor Signum

Policy-driven signing engine for DevOps and security teams

Poll #2

Are you interested in learning more about a product you do not have today?

Select all that apply (we will schedule a call with you)

1. EJBCA Enterprise (PKI)
2. Command (CLA)
3. PKI as a Service (PKI + CLA)
4. Command SaaS Lite (CLM)
5. SignServer or Signum (Signing)
6. Not sure/not right now

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Customer and Insider Program Updates

Warsan Ahmed,
Customer Marketing Manager

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Keyfactor
Insider

Keyfactor Insider Program

Get insider access to the latest updates, events, exclusive content, and opportunities to engage with industry peers.

Benefits:

Be the First to Know

Insider Tips & Training

Access Insider Opportunities

Insider Newsletter

Monthly updates on product releases, relevant content, and events.

Release Notifications

Timely alerts on software and feature releases relevant to you.

Content & Feedback

Participate in surveys and get early access to exclusive content.

Unique Experiences

Invitations to exclusive events and speaking opportunities.

Roadmap Sessions

Virtual session with product owners.

Insider Program

Benefits & Value

Exclusive Content

Insider members receive early access to product updates, reports, and expert-led webinars

Opportunity to Influence

Actively share your insights and ideas. Share your experience through peer reviews and success stories.

Latest Updates

Timely product notifications and Keyfactor news. Emerging industry trends and regulatory announcements.

Grow your Personal and Professional Brand

With nearly 800 members, the Insider Program continues to expand, fostering a valuable network of industry peers

Peer Engagement

Connect and collaborate with peers from the world's top brands through virtual and in-person events

VIP Access

Access to exclusive Keyfactor and third-party events, passes, awards, and so much more

2024 Insider Awards

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Most Engaged Insider of 2024

Honored for their valuable feedback and active participation in webinars and Keyfactor events

Josh Nash
Sr. PKI Engineer
Nationwide

KEYFACTOR

Insider Influencer of 2024

Recognized for educating peers and being a powerful voice for customers and prospective customers

Lokesh Ethirajan

VP, Identity & Access Management

AIG

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QUANTUMANIA

Our first-ever virtual customer workshop

Friday, July 18th 8:30 AM PDT | 11:30 AM EDT | 5:30 PM CEST

Why attend?

- Hear from our PQC experts on what's coming down the line
- Discuss openly with peers in an informal and open format
- Walk away with CPE credits and a free pass to the next Marvel movie

What we'll cover

- The impact of NIST PQC algorithm candidates and standardization
- How you can begin to prepare for the transition to PQC
- A look at the roadmap and what we're doing to prepare

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Save the Date
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Tech Days
Fontainebleau Miami Beach
March 4-5, 2025

Upcoming Events

Black Hat
Aug 7-8, 2024

ISC2 Congress
Oct 14-26, 2024

SecTor Canada
Oct 21-22, 2024

KubeCon North America
Nov 12-15, 2024

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Net Promoter Score (NPS) Intro

Jack Herman, Customer Success

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Keyfactor Annual NPS Survey

What is Net Promoter Score (NPS)?

Measure Satisfaction
- Assess your satisfaction with our products and services

Simple & Powerful
- A quick tool to gather your feedback

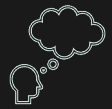
Quick Survey
- 5 questions taking less than 5 minutes to complete

Why it Matters to Our Customers

Your Voice Matters
- Your feedback fuels continuous improvement

Drive Change
- Help us improve and shape future developments

Share Freely
- Your honest opinions are invaluable



Why Your Feedback Matters

Prioritize Your Needs
- Ensure we focus on what's important to you

Act on Knowledge
- We can only improve what we know

Influence Roadmap
- Shape our product development

Enhanced Experience
- Tailored offerings based on your feedback

Next Steps and Survey Duration

Follow-Up Plan
- Customer Success Managers will follow up with an email

Survey Duration
- The survey is live until Thursday, June 27th

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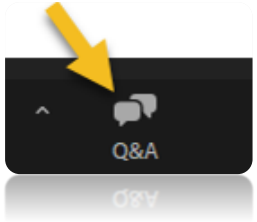
Q&A: Please put your questions in the Q&A box!



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Poll #3

Do you plan to attend Black Hat this year August 7-8?

1. Yes
2. No
3. Unsure

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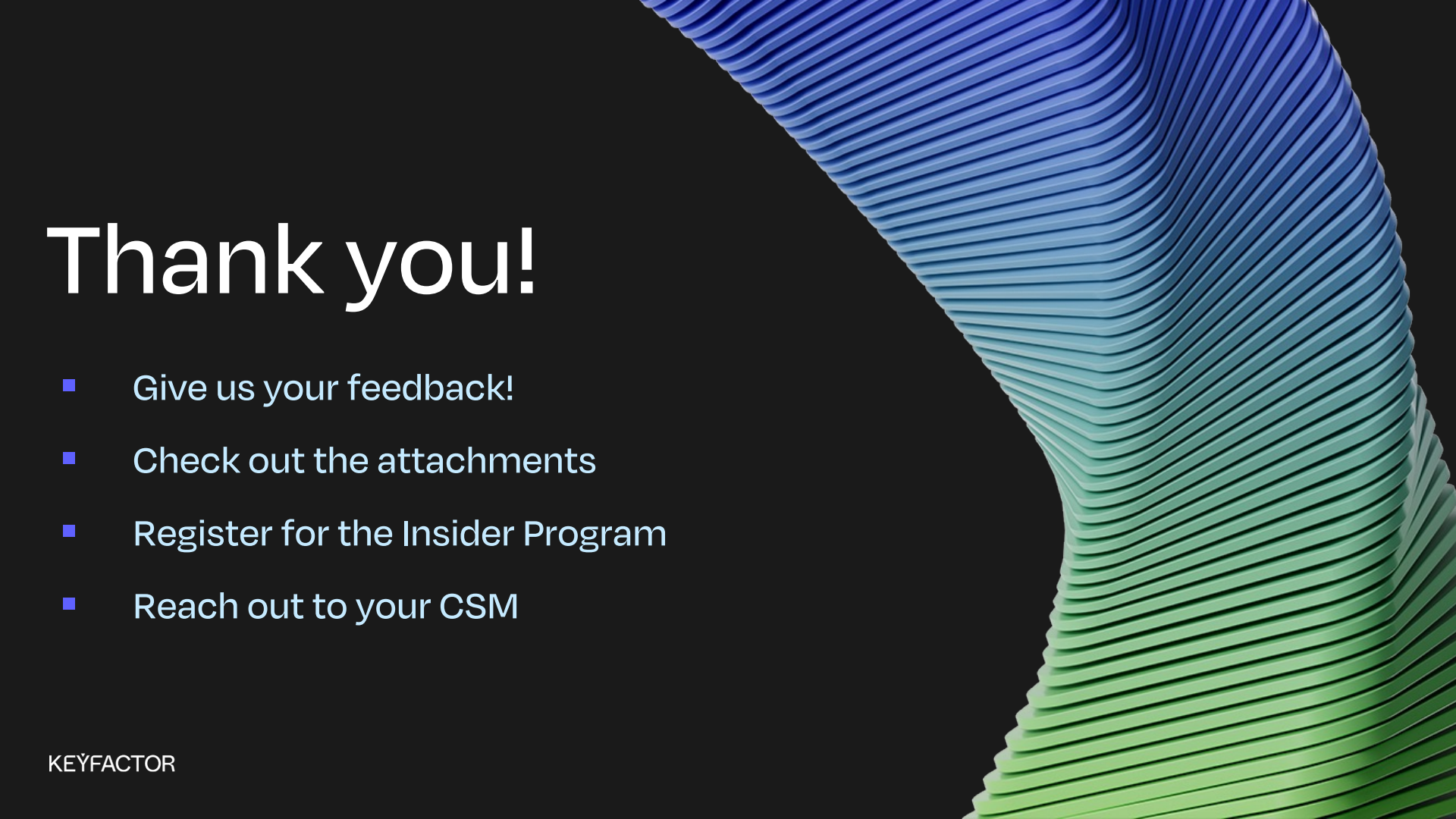
Open Q&A

Ask us anything

Thank you!

- Give us your feedback!
- Check out the attachments
- Register for the Insider Program
- Reach out to your CSM



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