Keyfactor

The Modern Approach to Outdated PKI

Simplify, streamline, and enhance security for the future.

There's no question that organizations face numerous challenges with their Public Key Infrastructure (PKI). Legacy PKI solutions, such as Microsoft CA, were once the go-to choice for IT environments. However, today's IT infrastructure is increasingly modern and evolving. With dynamic workloads, shorter certificate lifespans, and diverse use cases, a new approach is required. The evolving landscape demands a fresh perspective to address these challenges effectively.

The increasing number of applications running in diverse environments and the need for seamless scalability have made PKI more complex. Multiple teams and departments rely heavily on PKI and digital certificates to ensure secure connections between machines. However, as organizations grow, they often encounter the limitations of their legacy tools and processes. The traditional PKI infrastructure has become burdensome in cost, security, and operational efficiency, prompting a modernized approach to PKI.

Keyfactor solutions:

Enterprise PKI

Simplify and consolidate PKI to reduce unsanctioned Certificate Authorities

Certificate Lifecycle Management

Discover, manage, and automate every machine identity to regain control

PKIaaS

Combine certificate lifecycle automation and a custom-built private PKI deployment

Outdated PKI just can't keep up in the modern world.

Challenges

01 New use cases

Teams struggle to support the velocity and scale of new use cases, including IoT devices, DevOps workloads, and cloud computing. With legacy PKI, standing up and supporting new projects is time consuming, expensive, and labor intensive.

02 CA Sprawl

Different teams within an organization often spin up self-signed certificates and use different Certificate Authority (CA) tools, creating a fragmented and complex PKI landscape – which creates more risk. Organizations struggle to know how many digital certificates they have in their environment, never mind where they live, who issued them, or when they expire.

03 Lack of expertise

Implementing and maintaining an adequate PKI infrastructure requires specialized expertise in cryptography, certificate management, and security best practices. Many companies may lack in-house experts with the necessary skills and knowledge to design, deploy, and manage a robust PKI system.

> “PKI is an absolute foundational piece to what we’re building. Without EJBCA, we couldn’t have what we have. It is a key pillar of the future of our products.”
>
> Jason Slack, Director of Engineering, Truepic

Migrating to a modern PKI

Simplify and Streamline

The complexity of PKI shouldn't hinder your security. Adopting a modern PKI solution eliminates the sprawl of certificates and optimizes your infrastructure efficiency, enabling you to support a wide range of use cases quickly and efficiently.

Free up your IT

Managing PKI requires specialized skills and expertise, which can be time and resource intensive. By transitioning to a modern PKI solution, you can free your IT team from tedious and repetitive maintenance tasks, allowing them to focus on more strategic initiatives.

Enhance Security

Establishing digital trust is crucial, especially when embracing new business initiatives such as cloud-native applications, remote workforces, and connected devices. Implementing identity-based security through PKI helps you secure these initiatives, safeguarding your organization's sensitive data and infrastructure.

The Solution:

Make PKI work for you

Keyfactor's complete solution allows you to modernize your PKI and Certificate Lifecycle needs. With the scalability and flexibility EJBCA provides, you can replace outdated CA solutions and seamlessly issue and manage certificates for devices, workloads, and users. Keyfactor Command ensures efficient Certificate Lifecycle Management, offering automation capabilities, customizable dashboards, and detailed reporting to simplify the process of eliminate certificate outages.

Scalable and flexible PKI

Replace legacy CA solutions with a flexible and scalable PKI platform to issue and manage certificates for devices, workloads, and users. EJBCA offers complete flexibility in deploying your PKI to meet your specific use case and requirements. Whether you prefer on-premises or cloud deployment, self-managed or as a service, it's PKI your way.

Keyfactor EJBCA Enterprise

Learn more ↗

Certificate lifecycle management

Gain visibility and automate renewal and provisioning at scale to eliminate the risk of disruptive certificate outages. Keyfactor Command has customizable dashboards, detailed reporting, and automation capabilities, which simplify and streamline certificate management, ensuring that your organization maintains compliance and establishes digital trust.

Keyfactor Command

Learn more ↗

PKI as a Service

Combine Keyfactor Command with a fully hosted, 24/7 managed private PKI. We deploy your private PKI in a dedicated, single-tenant cloud environment to deliver the highest performance, availability, and scale.

Keyfactor Command

Learn more ↗

Modern PKI for Modern Environments

Want more information about Keyfactor's modern approach to PKI?

Learn more ↗

- Deploy PKI on-prem or cloud, turnkey or fully configurable, self-managed or as a service
- Secure any use case with the widest range of supported APIs, standard protocols, and a growing library of pre-built plugins.
- Spin up new CAs within minutes and issue thousands or billions of certificates.
- Scale up on demand and support new use cases as they emerge without slowing down your teams.
- Reduce costs by avoiding legacy PKI solutions' complex hardware and server requirements. Deploy your entire enterprise PKI on a single instance.

KEYFACTOR

Keyfactor brings digital trust to the hyper-connected world with identity-first security for every machine and human. By simplifying PKI, automating certificate lifecycle management, and securing every device, workload, and thing, Keyfactor helps organizations move fast to establish digital trust at scale — and then maintain it. In a zero-trust world, every machine needs an identity and every identity must be managed.

For more, visit keyfactor.com or follow @keyfactor.

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