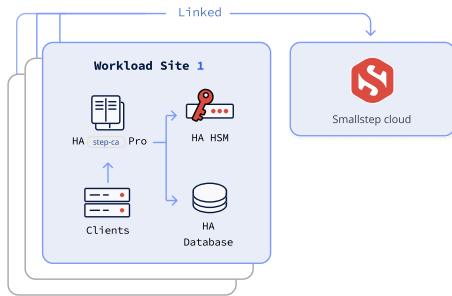Step CA Pro

Modern Enterprise Certificate Management

Store-and-forward (optional) aggregates local CA metrics to a single reporting dashboard on smallstep.com

Upgrade to enterprise–ready certificate management with Step CA Pro.

It's the open-source foundation you trust, with the enterprise-grade security, automation, scale, and control you need.

Smallstep built and maintains the leading open-source certificate management toolchain, trusted by 78 of the Fortune 100 and 3,000+ companies worldwide:

•**step:** A simple CLI for managing PKI, issuing certificates, and automating workflows.

•**step-ca:** A powerful online CA for secure, automated certificate management.

•**step-issuer & auto-cert:** Kubernetes-native solutions for seamless certificate issuance in containerized environments.

•**Step CA Pro** extends this open-source foundation with the features you need as your infrastructure scales:

•**On-Prem Control, Cloud Benefits :** Keep full control over your CA and root signing keys while leveraging cloud-based integrations.

•**Distributed Local CAs With Shared Cloud Config:** Sync multiple CA instances with a shared revocation list and centralized policy enforcement.

•**Unified Management & API:** A single interface for managing multiple CAs, monitoring certificate activity, and enforcing policies.
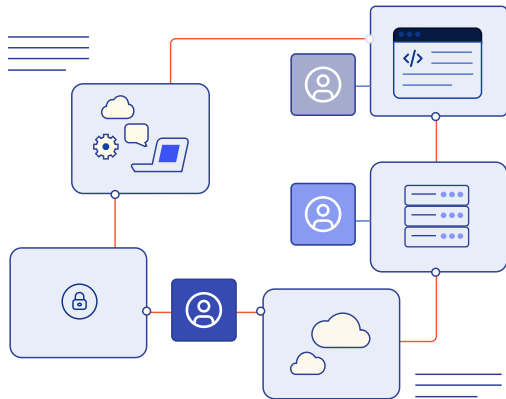
Key Features
Our open-source gives you:

- Fast and lightweight setup on Linux or in container environments

- High-volume certificate issuance with HSM integration

- Software supply-chain compliance, including SBOM & code-signing

- Broad support for enrollment protocols, such as ACME, SCEP, REST API, SSO (OAuth OIDC), SPIFFE, cloud identities, and Kubernetes integration

Step CA Pro gives you all of the above and also includes:

- Registration Authority Mode: Connectors for existing PKI backends (AD CS, GCP CAS, AWS PCM, Hashicorp Vault)

- Active revocation of certificates (OCSP)

- High availability, distributed topology for critical high-volume internal CAs

- Improved observability / Metrics (OpenTelemetry)

- Relational database schema enables reporting and ETL operations

- API eases integration with your CLM (Sectigo, AppViewX, Digicert)

- FIPS compliant binary

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Step CA Pro

Step CA Pro replaces the open source step-ca component, designed for mission-critical DevOps use cases:

- **Open Source to Commercial Transition:** A drop-in upgrade for open-source step-ca, offering advanced features and compliance options.
- **On-Prem Control:** Full control over the CA and root signing keys while benefiting from our cloud-based integrations and management interface.

Device Identity

Step CA Pro unlocks Device Identity.* Device Identity ensures that only company-owned devices can access your enterprise's most sensitive resources. Our collaboration with Google and Apple on the ACME Device Attestation (ACME DA) provides the strongest possible guarantee of authentic device identity, preventing credential exfiltration, phishing, and impersonation attacks. *Requires linking Step CA Pro to Smallstep's Saas CA service or a Smallstep Run Anywhere instance.

Enterprise Support and Reliability

Smallstep provides dedicated support for Step CA Pro, offering standard SLAs during business hours (Pacific Time). For organizations requiring tailored assistance, enhanced support options are available, ensuring your infrastructure remains secure and operational.

Smallstep is the market leader in end-to-end encryption across infrastructure. The comprehensive platform detects and mitigates anomalies, equipping developers with a toolkit that continuously monitors everything, everywhere. Smallstep removes the gap traditional secrets create, using certificates to enable trusted communications between technology and people. Learn more about operationalizing end-to-end encryption for all your devices, workloads, and people at smallstep.com.

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