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SSL Certificate Management

Overview

JioCloud's SSL Certificate Management is an enterprise-grade service that simplifies the full lifecycle management of SSL/TLS certificates. It unifies issuance, renewal, revocation, and monitoring under a single interface, ensuring secure communication across both public-facing and internal systems. With automated workflows, centralized visibility, and compliance-ready features, SSL Certificate Management eliminates the risks of certificate outages while strengthening digital trust.

Key Features

- **Multi-certificate authorities support**
  Manage certificates from both public and private CA — all in one place.
- **Automated lifecycle management**
  No more manual overhead, handle all lifecycle tasks (renewal, reissuance, or revocation) seamlessly with pre-built automation.
- **Built-in SSL utility tools**
  Create CSRs, convert certificate formats, and manage private keys securely — with no external tools required.
- **Unified certificate dashboard**
  Track certificate status, ownership, and expiry timelines across your entire digital footprint.
- **Intranet SSL support**
  Issue internal certificates for IPs and internal domains using private CA workflows.
- **RBAC and secure access**
  Control who can issue or revoke certificates with fine-grained access policies.
- **Alerts and notifications**
  Get ahead of outages with proactive expiry notifications and periodic alerts.

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Benefits

- **Fewer outages, more confidence**
  Stay ahead of certificate expiry with automation and real-time tracking.
- **Faster operations**
  Eliminate manual workflows — save hours every week with self-service tools and automated workflows.
- **Cost Efficiency**
  Reduce operational overhead by automating manual tasks and preventing costly outages.
- **End-to-end visibility**
  Get a unified, accurate view of all certificate assets across cloud and on-prem systems.
- **Support for every use case**
  Choose from variety of certificate types such as Single-Domain, Wildcard, MultiSAN, and Intranet SSLs as per the applicable use case.

Technologies Supported

- **Operating Systems:** Windows, Linux, macOS
- **Web servers and platforms:** Apache, Nginx, Microsoft IIS, Tomcat (all major web browsers)
- **Databases / Applications:** SSL for MySQL, PostgreSQL, MongoDB, Oracle DB

Technical Specifications

Specification	Details
Supported CA Types	Public CA, Private CA
Validation Methods	Domain Validation (DV)- DNS, HTTP, Email
Certificate Types	Single Domain, MultiSAN, Wildcard, Intranet SSL
Hashing Algorithm	SHA-256
TLS Version	TLS1.3

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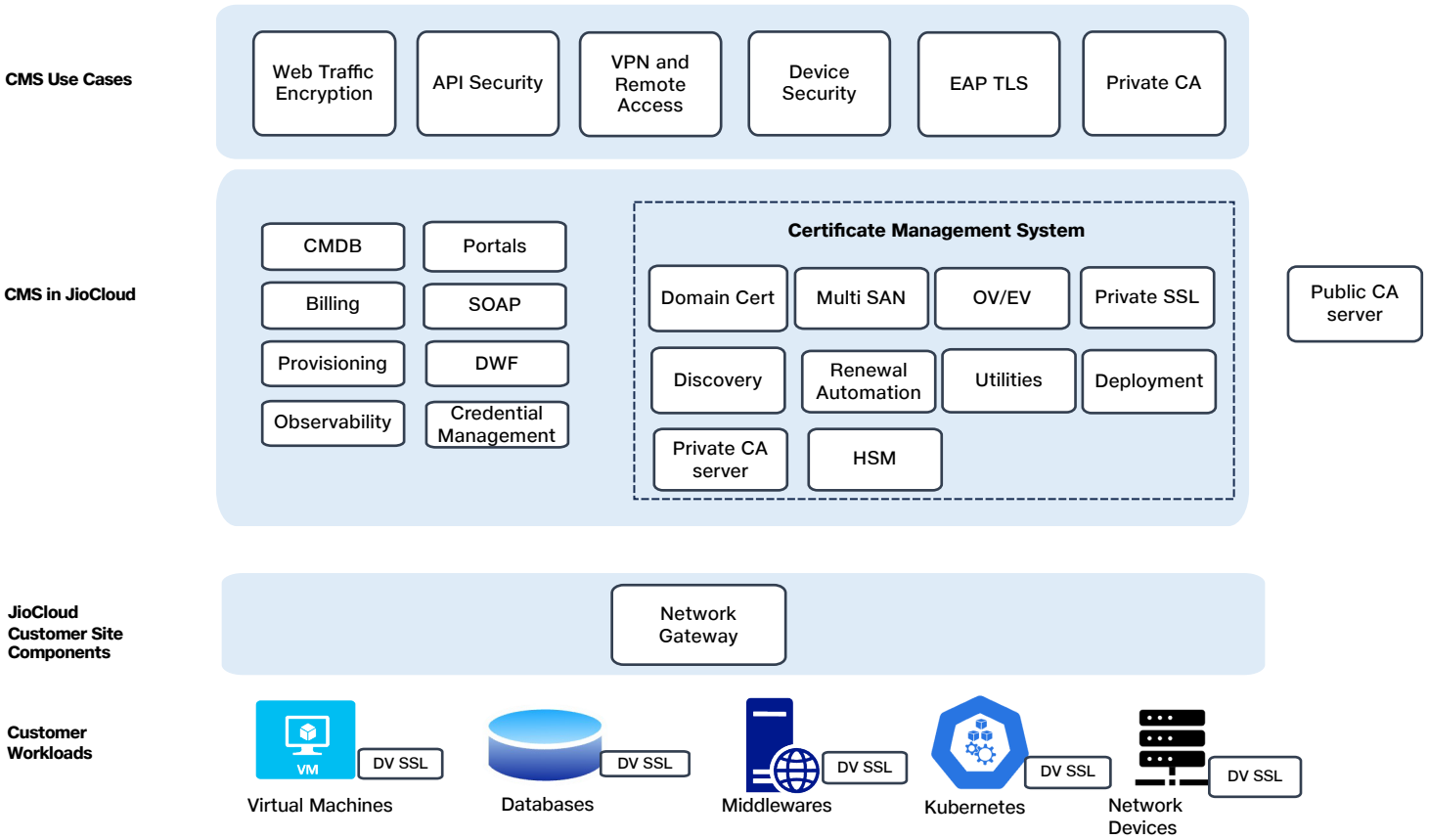
Architecture Diagram



Use Cases

- **Public website protection, simplified**
  Stay ahead of certificate expiry with proactive alerts and guided renewal, ensuring your public-facing SSLs are always secure and compliant.

- **Internal system encryption**
  Issue and manage internal certificates for applications and services - all within compliance scope.

- **Multi-certificate management from one place**
  Handle hundreds of certificates across teams and departments without needing multiple tools.