AppViewX

Agility through Automation

Certificate management and automation

Solution Brief

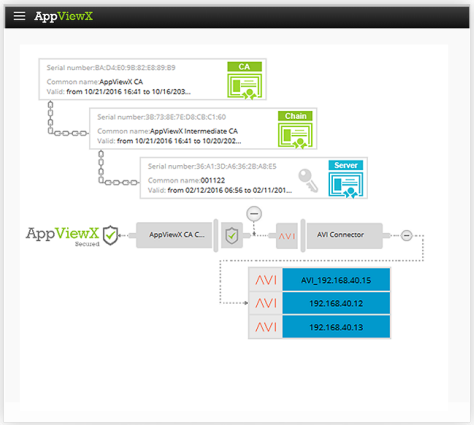
X.509 certificates and their keys are essential for authenticating the identity of an application and encrypting traffic between endpoints communicating with the application. When enterprises scale, the number of certificates and keys in the infrastructure proliferates. Often, these certificates and keys are managed using spreadsheets and a manual process that is error-prone, lacks the required visibility, and is audited inefficiently.

Without proper access controls and policy enforcement, anybody can create an SSL certificate in the environment, posing a huge security risk for the enterprise. Due to lack of visibility, no one knows when a certificate will expire, and if it is not renewed on time, the application goes down. Without an automated way to deploy, renew, and revoke certificates and keys on time, enterprises risk damage to their brand reputation and customer trust.

Certificate and Key Lifecycle Management

Managing thousands of certificates and keys manually is complex and time consuming. Even a small human error can prove to be costly. With AppViewX, you can automate the whole process seamlessly without manual interventions.

- Use a one-stop solution for lifecycle management: create, issue, renew, rotate, revoke, and install certificates and keys
- Discover certificates and keys in your environment through different modes, such as IP, subnet, and managed devices, and build an inventory automatically
- Get enhanced visibility with a hierarchal view of server certificates, intermediate certificates, CA root certificates, and trust chain validity



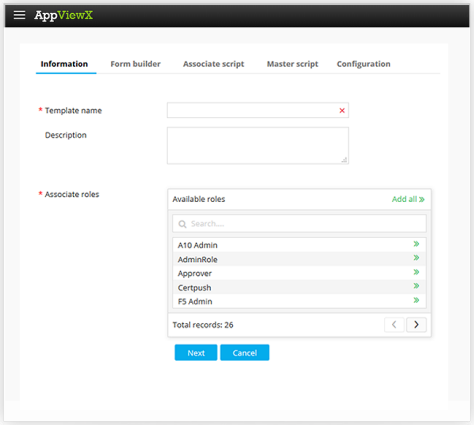
Automated Alerts and Reports

Tracking all certificates manually is an intensive task, and organizations can lose track of certificate expiration dates when certificates proliferate. Certificate expiration is a risk to customer confidence and brand reputation. With AppViewX, you can automate this mundane task.

- Monitor the expiration status of certificates across networks, renew certificates on time, and prevent unnecessary application downtime
- Send custom alerts through emails or SNMP traps
- Diagnose expiration issues with minimal manual interventions
- Get notified about non-compliant keys and certificates in your environment on a regular basis

Auditing and FIPS Compliance

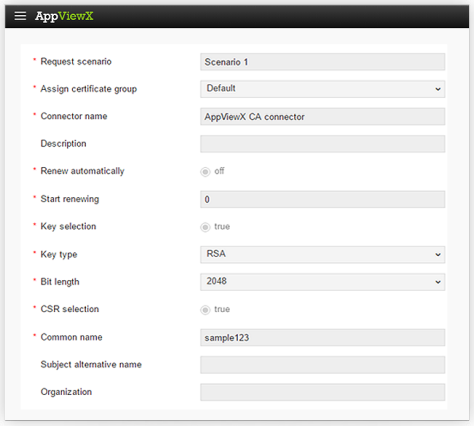
Multiple teams work on managing SSL certificates across the infrastructure, and manual processes lack the necessary auditing and accountability. Role-based access for these teams can enable efficient provisioning, ensure policy administration, and help ensure compliance with international standards.



- Use simple self-service forms with admin-defined workflows and a standardized SSL provisioning template to provision certificates
- Create audit trails for each activity
- Store private keys in a FIPS-compliant environment

SHA-1 to SHA-2 Migration

As cybersecurity attacks become more sophisticated, encryption techniques become more vulnerable. For example, SHA-1 has been vulnerable for years and SHA-2 has now become the recommended hashing standard. With AppViewX, you can migrate to the recommended standards with ease.



- During maintenance windows, certificates can be renewed in bulk using a provisioning template
- In production environments, users can renew certificates one by one
- Certificates in intermediate chain/certificate bundles can also be updated with the recommended standard (SHA-2)

About AppViewX

AppViewX is a global leader in the management, automation and orchestration of network services in brownfield and greenfield data centers. The AppViewX Platform helps network operations (NetOps) adapt to technology and process demands, such as agile, DevOps, IoT, cloud, and software-defined infrastructure. AppViewX delivers greater business agility and efficiency at a lower cost. For more information, visit www.appviewx.com.

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