

Solution Brief

Strengthening Code Signing Security with AppViewX SIGN+ and Fortanix DSM



Empowering Organizations with Robust Code Signing Protection

Code signing is a critical step in the software development cycle that helps protect the software supply chain, build end-user trust, and maintain brand reputation. AppViewX and Fortanix, two industry leaders in their respective domains, have collaborated to provide a joint solution that elevates code signing security and ensures organizations can deploy software confidently, with resilience against cyber threats.

The Challenge: Elevating Code Signing Security to Combat Evolving Threats

Code signing is critical for software integrity, authenticity, and security, with private key protection being fundamental to thwarting software tampering, malware injection, and impersonation attacks. Recent CA/Browser Forum mandates emphasize the importance of storing code signing private keys in certified hardware crypto modules, such as FIPS 140-2 Level 2 HSMs. However, while security is crucial, integrating these security measures into DevOps processes can often be complex, hindering speed and agility.

The Solution: AppViewX and Fortanix – A Synergistic Approach to Code Signing Security

AppViewX SIGN+ – Simplifying Code Signing for DevOps

AppViewX SIGN+ is a flexible code signing solution, designed to streamline the code signing process while ensuring it is simple, fast, and highly secure. With centralized code signing, secure key storage, extensive vendor-agnostic integrations, versatile file support, and a robust policy and compliance engine, AppViewX SIGN+ addresses the operational and security challenges of code signing.

Fortanix Data Security Manager – Securing Code Signing Processes

Fortanix Data Security Manager (DSM) is a unified platform delivering data security and privacy solutions, powered by Confidential Computing. The DSM platform secures data across hybrid multi-cloud environments, enabling control, security, and compliance of sensitive data. Fortanix DSM is natively integrated with FIPS 140-2 Level 3-certified HSMs. With Fortanix, organizations can confidently store and manage cryptographic keys without compromising speed, agility, or ease of use.

The Joint Solution: Combining Security and Simplicity

Together, AppViewX and Fortanix create a formidable solution that combines code signing simplicity with the robust security required in today's threat landscape.

Unified Code Signing Workflow: AppViewX SIGN+ integrates seamlessly with Fortanix DSM, providing a unified and secure code signing workflow. Private keys are securely stored in Fortanix HSMs, ensuring the highest level of protection. The integration simplifies the code signing process, enhancing speed, agility, and ease of use for DevOps teams.

Comprehensive Security and Compliance: The joint solution ensures that code signing processes adhere to the highest security standards and meet the CA/B Forum baseline requirements for secure code signing certificate key storage. Private keys are stored securely in Fortanix HSMs, and AppViewX SIGN+ enforces enterprise-wide PKI policies, providing granular control over key access and code signing events. This combination enhances security, aids compliance, and simplifies audits.

Global Customer Success: AppViewX and Fortanix bring a customer-first approach, offering global customer success teams that provide guidance and support at every step. This collaborative effort accelerates the time to value for organizations implementing this joint code signing solution.

Advantages of the Joint Solution:

Robust Security: Private keys are stored in Fortanix HSMs, ensuring FIPS 140-2 Level 3 certified security.

Simplicity and Integration: AppViewX SIGN+ seamlessly integrates with Fortanix HSMs, simplifying the code signing process for DevOps teams.

Consistent and Granular Policy Enforcement: AppViewX SIGN+ enforces enterprise-wide PKI policies, ensuring adherence to key access, code signing, and compliance standards.

Global Support: AppViewX and Fortanix offer global customer success teams, providing support and guidance across the implementation journey.

A Future-Ready Code Signing Solution

In a digital landscape where cyber threats continue to evolve, the joint solution from AppViewX and Fortanix stands as a testament to the commitment to providing organizations with a future-ready code signing solution. Combining security with simplicity, this collaboration empowers organizations to fortify their software supply chain against emerging threats.

For more information:

<https://www.appviewx.com/solutions/secure-code-signing-for-devops/>

<https://www.fortanix.com/solutions/use-case/secure-your-code-signing-process>

About AppViewX:

AppViewX is trusted by the world's leading enterprise organizations to reduce risk, ensure compliance, and increase visibility through automated machine identity management and application infrastructure security and orchestration.

About Fortanix:

Fortanix is a global leader in data security. Our unified data security platform empowers enterprises worldwide to simplify the discovery, assessment, and remediation of data exposure risks across hybrid multi-cloud environments.

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