Entrust nShield® as a Service Web

Easy, cloud-native access to secure cryptographic operations and keys

KEY FEATURES

- Web Services API for authenticated and authorized cryptographic functionality with a zero client footprint

- Cloud-accessible HSMs that can be used from any cloud (private, public, or hybrid)

- Easy integration into current environment using standards-based web services calls

- Streamlined, secure, and scalable access to cryptography security controls for cloud-native applications

- Cloud-based RESTful APIs to easily incorporate use of cryptographic resources into applications, underpinned by an nShield HSM root of trust

The challenge: efficiently incorporating security from the outset

Cloud application developers wishing to take advantage of the efficient and dynamic scalability of the cloud environment are often inhibited when it comes to incorporating cryptographic security. They are forced to tightly couple with cumbersome and stateful interfaces that require deep knowledge of unfamiliar components.

The ideal solution to this problem is to provide streamlined access to a secure, centralized, and resilient cryptography service within the context of the existing development paradigm.
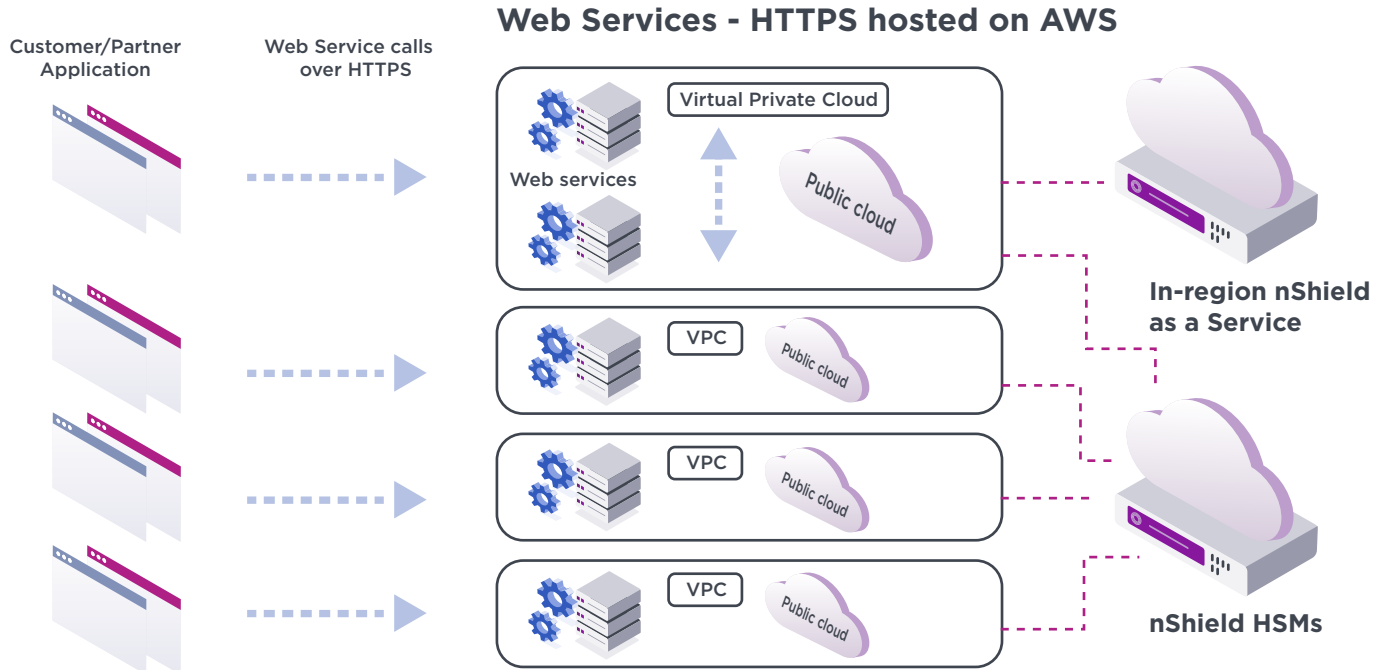
The solution: API-based access to on-demand cryptographic services

Entrust nShield® as a Service Web is a subscription-based solution for generating and protecting, while in use and throughout their lifecycle, cryptographic keys separately from sensitive data. The solution uses dedicated FIPS 140-2 Level 3 and Common Criteria EAL4+ certified nShield Connect HSMs.

nSaas Web allows security architects to adopt cloud-based RESTful APIs to build applications requiring access to nShield HSM cryptographic resources, underpinned by a resilient root of trust. This conforms with developers' requirements for cloud-native technologies and the need to dynamically provision highly scalable applications that can easily and securely consume cryptographic services.

Learn more about nShield as a Service at entrust.com

nShield as a Service Web

How it works

Web Services - HTTPS hosted on AWS

Customer/Partner Application

Web Service calls over HTTPS

Virtual Private Cloud

Web services

Public cloud

VPC

Public cloud

VPC

Public cloud

VPC

Public cloud

In-region nShield as a Service

nShield HSMs

The nShield as a Service Web difference

nShield as a Service Web provides several key advantages, including:

- Consistent cloud-based cryptography and key management across multiple clouds

- Encrypted, authenticated connection over industry-standard TLS ensuring only authorized users can access the service, while unauthorized attempts are denied, detected, and alerted on

- Automation of client credential issuing facilitates elastic workload scaling while maintaining secure access to data protection keys

- Performance-based pricing simplifies budgeting for critical security needs

- Access to cryptographic keys in cloud with the flexibility that web services access offers

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nShield as a Service Web

Service tier detail

	SaaS Web Standard
Application integrations	3
RSA 2048 TPS	4,400
NIST P-256 TPS	5,000
AES-128 KB/s	4,000
Uptime/SLA	99.9%

Deployment features

- Customer leverages dedicated nShield Connect hardware hosted in secure data center

- The nShield Remote Administration Kit lets you securely connect to and interact with your cloud-based nShield HSM(s)

- Dedicated access via a cloud platform to cryptographic functions

- Maintenance and support

  - Service monitoring

  - Pre-tested upgrades/patches applied during annual or emergency maintenance windows

  - 24/7 support

- Full management of installation

  - Security officer role fulfilled by trusted personnel

  - nShield Security World creation

  - HSM enrollment

- ISO/IEC 27001:2013-compliant policies and procedures (certificate of registration available on request)

- Cloud Security Alliance (CSA) Security Trust Assurance

ENTRUST

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