Entrust PKI as a Service for Microsoft Auto-Enrollment (WSTEP)

Certificate enrollment made easy

Automated user and device enrollment

Based on Entrust's next-generation virtual machine, the PKI as a Service Auto-Enrollment for WS-Trust X.509v3 Token Enrollment Extensions (WSTEP) provides a modular enrollment service supporting Microsoft Active Directory auto-enrollment.
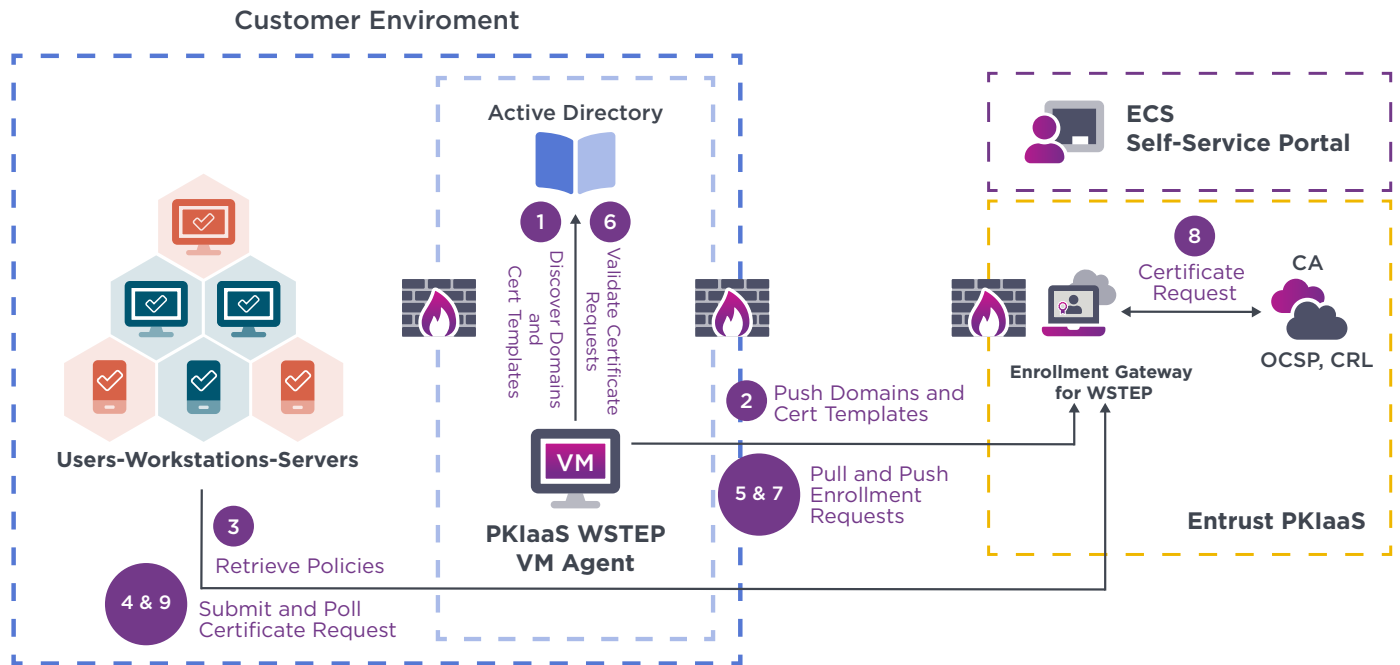
Entrust PKI as a Service (PKIaaS) offers a zero-touch, turnkey, and simple virtual machine (VM) agent that integrates with the Microsoft Auto-Enrollment WSTEP protocol. This allows customers to leverage Entrust PKI seamlessly with their IT management platform. Flexible and scalable, Entrust PKIaaS allows devices of any kind to be enrolled securely with key and certificate parameters to support advanced identification, authentication, and authorization schemes.

Since PKIaaS is cloud-native, many of the components required to integrate with WSTEP are hosted, leaving only a stateless VM to deploy on-premises given the nature of the customer's Active Directory environment.

BENEFITS

- High assurance certificate-based credentials for Microsoft Intune deployments
- Leverage your enterprise certificate authority for managing Microsoft Intune devices
- Self-service PKI with an intuitive web-based interface
- Rapid and turnkey deployment
- Secure communications/secure tunnel/VPN
- Cryptography policy and algorithm management (data protection, encryption)
    - Different profiles for different devices – ECC vs. RSA (key lengths)
    - Rotation policies
- Support for automatic revocation via Intune
- Cloud-native PKI that leverages 25+ years of Entrust PKI innovation and technology

Learn more about Entrust PKIaaS at entrust.com

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Customer Enviroment

Active Directory

① Discover Domains and Cert Templates

⑥ Validate Certificate Requests

Users-Workstations-Servers

PKIaaS WSTEP VM Agent

③ Retrieve Policies

④ & ⑨ Submit and Poll Certificate Request

② Push Domains and Cert Templates

⑤ & ⑦ Pull and Push Enrollment Requests

ECS Self-Service Portal

⑧ Certificate Request

CA

OCSP, CRL

Enrollment Gateway for WSTEP

Entrust PKIaaS

The secure enrollment ensures no tampering occurs at any point in the certificate issuance. Organizations can issue certificates via Entrust to provide seamless authentication to applications and on-premises resources, creating a user-friendly, flexible, and cost-effective experience. These benefits are all in addition to industry-leading certificate-based authentication.

Key Capabilities

Ensures secure delivery of keys and certificates to devices

Easy to set up using the GUI; stateless light on-prem footprint

Leverages industry-standard WSTEP protocol for maximum device interoperability

Certificate publishing and validation services allow for real-time revocation checking

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Features

Simple deployment and seamless upgrades	Supports diverse deployment models as an OVA (open virtual appliance) file and easy upgrades via the Entrust cloud
Virtual environments	The following VMware products are compatible with this version: ESXi 6.7, Fusion 10.x, Workstation Pro 14.x, Workstation Player 14.x
OS system requirements	The OVA file of the PKIaaS Virtual Machine is configured to use the following resources: 2 cores, 8 GB of RAM, 30 GB of disk space

Learn more at
entrust.com

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