



The Future is Now

Enterprise Application Management and
Cloud PKI in the Intune Suite



Who am I?

Microsoft Intune plans

Intune Plan 1

Included in EMS E3 or Microsoft 365 E3, ME5, F1, F3, and Business Premium plans

- Cross-platform endpoint management
- Endpoint security built in
- Endpoint analytics
- App protection policies
- Shared device management
- Device compliance
- Risk and app based conditional access
- Proactive remediation
- Integrated Microsoft 365 and security

**Also available as individual add-ons
aka.ms/IntuneSuitePricing*



Intune Suite

Add to Plan 1 to utilize these solutions*

- Remote Help
- Endpoint Privilege Management
- Advanced Analytics
- Enterprise Application Management
- Cloud PKI
- [All Intune Plan 2 features](#)

Prerequisite

- Intune Plan 1

Intune Plan 2

Add to Plan 1 to utilize these features

- Tunnel for Mobile App Management
- Mobile firmware update management
- Specialty device management
- Multiple managed accounts (future)

Prerequisite

- Intune Plan 1

Enterprise Application Management

Proactively, simply, and securely deploy and manage apps

Supports: Windows

Reduce time and effort for IT administrators to package apps and track updates while streamlining fix deployments to keep apps up to date and secure.



Streamline application management.



Reduce security risks and vulnerabilities.



Stay current with updates and alerts.



78%

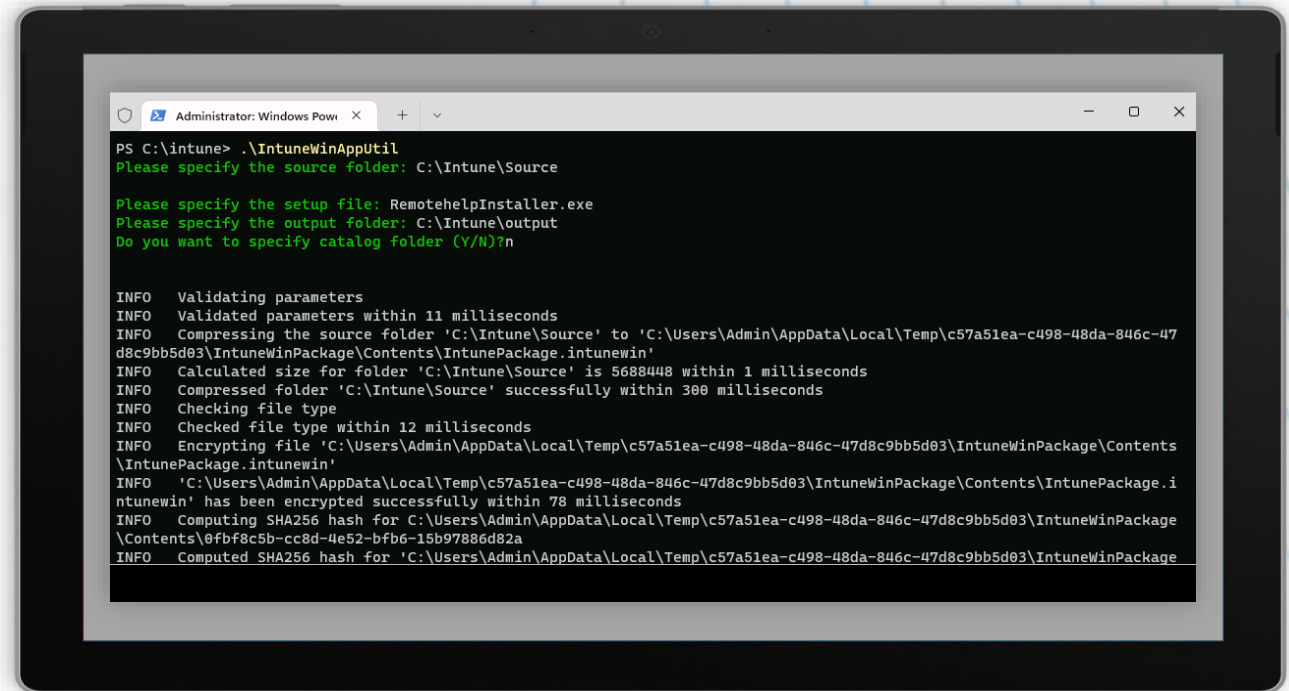
of devices remain unpatched nine months after the release of a patch fixing a critical vulnerability.

Source: Microsoft Digital Defense Report 2022.

Application management takes too much effort

Application packaging is . . .

- time consuming
- too much work
- doesn't have what I need
- tedious
- archaic
- clunky
- cumbersome



```
Administrator: Windows Powe
PS C:\intune> .\IntuneWinAppUtil
Please specify the source folder: C:\Intune\Source

Please specify the setup file: RemotehelpInstaller.exe
Please specify the output folder: C:\Intune\output
Do you want to specify catalog folder (Y/N)?n

INFO Validating parameters
INFO Validated parameters within 11 milliseconds
INFO Compressing the source folder 'C:\Intune\Source' to 'C:\Users\Admin\AppData\Local\Temp\c57a51ea-c498-48da-846c-47d8c9bb5d03\IntuneWinPackage\Contents\IntunePackage.intunewin'
INFO Calculated size for folder 'C:\Intune\Source' is 5688448 within 1 milliseconds
INFO Compressed folder 'C:\Intune\Source' successfully within 300 milliseconds
INFO Checking file type
INFO Checked file type within 12 milliseconds
INFO Encrypting file 'C:\Users\Admin\AppData\Local\Temp\c57a51ea-c498-48da-846c-47d8c9bb5d03\IntuneWinPackage\Contents\IntunePackage.intunewin'
INFO 'C:\Users\Admin\AppData\Local\Temp\c57a51ea-c498-48da-846c-47d8c9bb5d03\IntuneWinPackage\Contents\IntunePackage.intunewin' has been encrypted successfully within 78 milliseconds
INFO Computing SHA256 hash for C:\Users\Admin\AppData\Local\Temp\c57a51ea-c498-48da-846c-47d8c9bb5d03\IntuneWinPackage\Contents\0fbf8c5b-cc8d-4e52-bfb6-15b97886d82a
INFO Computed SHA256 hash for 'C:\Users\Admin\AppData\Local\Temp\c57a51ea-c498-48da-846c-47d8c9bb5d03\IntuneWinPackage\Contents\0fbf8c5b-cc8d-4e52-bfb6-15b97886d82a'
```

Today we're focused on building the foundation

The foundation is the Enterprise App Catalog

Includes a prioritized set of pre-packaged applications

A guided upgrade experience

Support for managed applications

Enterprise Application Management snapshot



Enterprise App Catalog

- Securely hosted Enterprise App Catalog for Microsoft and non-Microsoft applications
- Prepackaged and preconfigured apps
- No wrapping, no install commands
- Includes Microsoft-hosted and validated content
- Enterprise App Catalog expanded to include more applications



Coming soon

- Graph API scripting available with Enterprise App Catalog
- Guided upgrade process to save time and resource hours

Cloud PKI

Create multiple certificate authorities and manage certificate lifecycle in the cloud

Supports: Windows | macOS | iOS | Android

Allow customers to create, revoke, and manage certificates using Intune, removing the cost and complexity associated with on-premise PKI infrastructure.



Simplify certificate delivery.



Accelerate cloud transformation.



Improve security with certificate-based authentication.



8.4

Average number of distinct applications PKI manages on behalf of organizations, a core element of the enterprise IT backbone.

Source: Ponemon Institute, 2022 Global PKI and IoT Trends Survey.

Acronyms decoder



ADCS – Active Directory Certificate Service

BYOCA – Bring Your Own Certificate Authority

CA – Certificate Authority

CBA – Certificate-Based Authentication

CDP – CRL Distribution Point

CRL – Certificate Revocation List

C-PKI – Microsoft Cloud PKI

DR – Disaster Recovery

GA – General Availability

HA – High Availability

HSM – Hardware Security Module

OPS – Operations, Operational

PKI – Public Key Infrastructure

NDES – Network Device Enrollment Service

RA – Certificate Registration Authority

RBAC – Role-Based Access Control

RSA – Rivest-Shamir-Adleman, a suite of
cryptographic algorithms

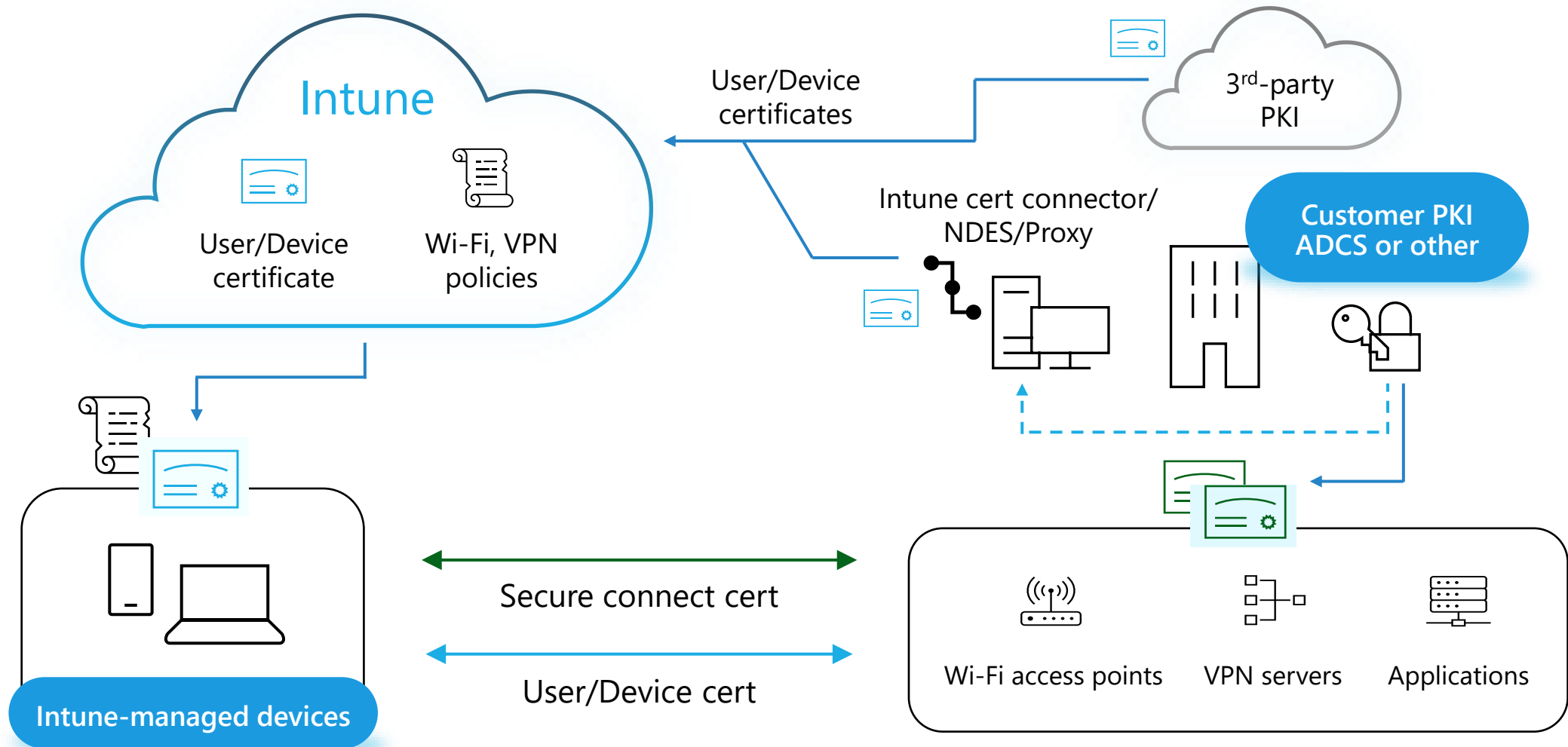
SaaS – Software as a Service

SHA – Secure Hash Algorithm

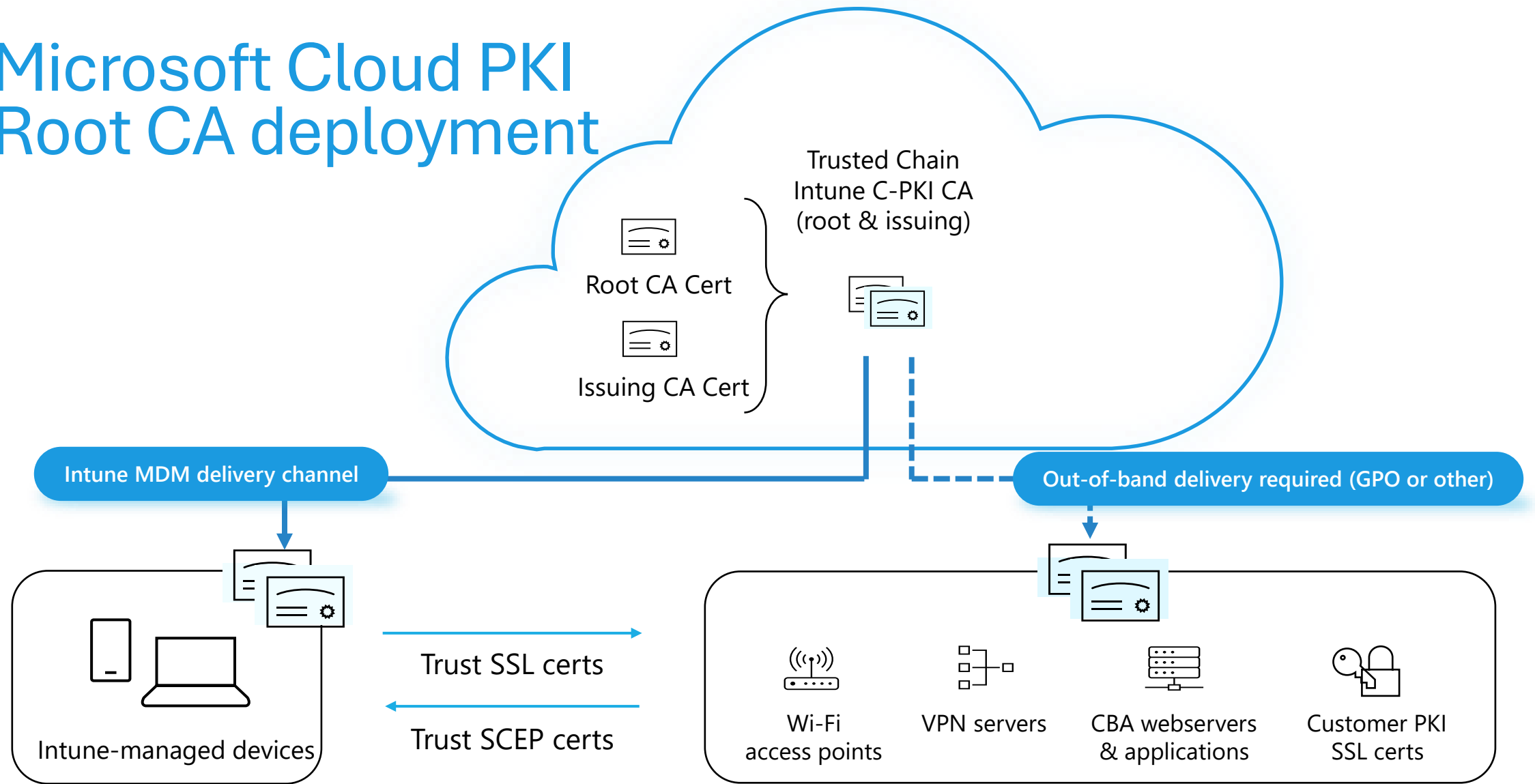
SCEP – Simple Certificate Enrollment Service

WHfB – Windows Hello for Business

Intune today | Certificate connector or 3rd-party API



Microsoft Cloud PKI Root CA deployment



Note: With 3rd-party solutions, customers will need to configure relying parties to trust additional certification authorities.

Details

> Create CA per Intune tenant

- Create 2-tier PKI hierarchy
 - Root, issuing CA in the cloud
- Support Bring Your Own CA (BYOCA)
 - Anchor Intune issuing CA to a private CA
- Signing and encryption algorithms | RSA
 - RSA Key sizes – 2048, 3072, 4096
- Hash algorithms – SHA-256, SHA-384, SHA-512
- Providing a SCEP service per issuing CA
- CRL distribution points

> End-entity (leaf) certificate issuance

- Protocol/Cert format – SCEP (PKCS#7)
- Platforms: Intune-enrolled devices on iOS, Android, Mac, and Windows

> Certificate life cycle management

- Automatic and manual certificate revocation

> Reporting/Dashboard

- Issuing CA summary (issued, expired, revoked) and detailed information about issued certificates

> Audit

- Admin actions performed on the CA

> RBAC permissions and scope tags



I am about to show you how it's done.