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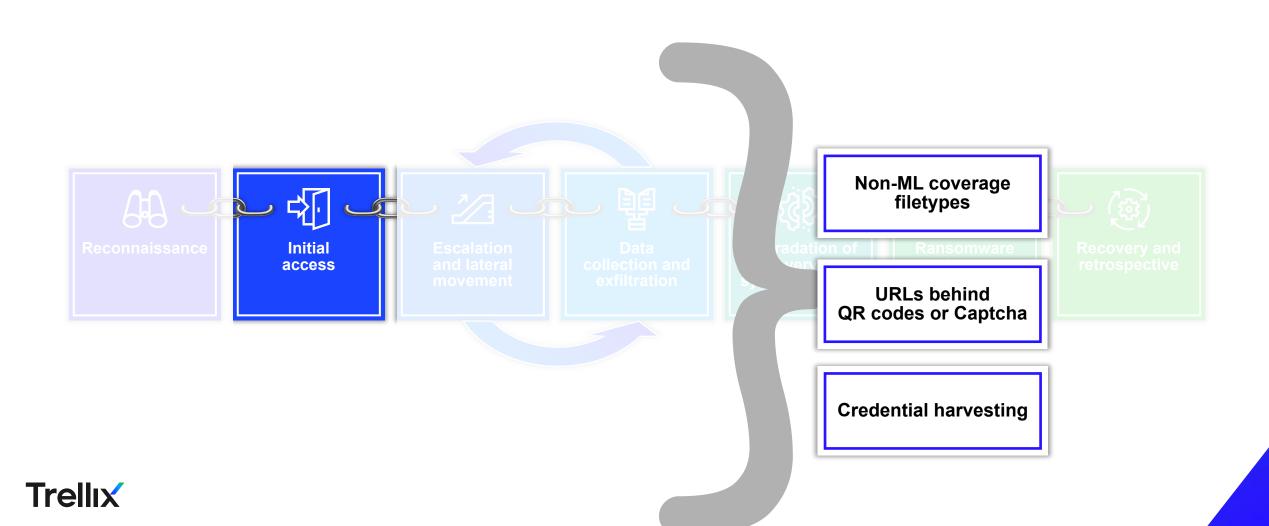


- Why invest in a Sandbox?
- The Trellix Sandbox differentiator
- **Some Cool Demos**
- 4 ATD-IVX migration path





Where we see the biggest gaps



Nature of collaboration has changed

Trellix Collaboration Security



Email

Still the primary attack vector.

Over 90 % of cyberattacks begin with phishing.



Collaboration
Platforms
(Box, Teams, Slack etc.)

Allow us to freely share information, but do not ensure the integrity of what is being shared



Enterprise
Applications
(Workday, Salesforce etc.)

Digital transformation initiatives grant access to suppliers, vendors, customers – and threat actors



Proven technology to address distinct use cases

IVX for Products

Targeted for Trellix Appliances

MVX detection created the sandbox market. Detection is our founding competency

Flexible deployment options that scale for scanning throughput with Network Security, Email Security, Endpoint, etc.

Clustered architecture instrumented for 200 potential simultaneous executions

Product: Trellix IVX

IVX for Investigators

Targeted for the SOC

Used during investigative workflows

Detonate suspicious content

Reverse engineer malware

Product:

Trellix Malware Analysis

IVX for Collaboration Security

Targeted for Enterprise Applications

Organizations focused on digitizing their extended enterprise value chain

Integrates with enterprise applications

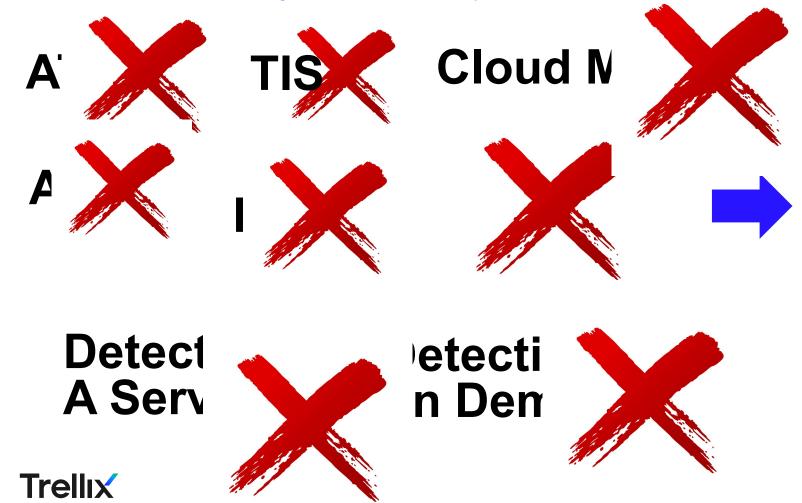
Mitigate the risk of working with external organizations and vendors

Products: Trellix IVX Cloud
Trellix File Protect



IVX Brand Name for all Sandbox Product Lines

We have an array of sandbox products available to customers today



Intelligent Virtual eXecution

Key Features

Signature-less, dynamic analysis engine — Captures and confirms zero-day, and targeted APT attacks

Proprietary hypervisor — Detonates files, URLs, web objects, and email attachments within proprietary hypervisor instrumented for over 200 potential simultaneous executions

Static scanning — Includes object decomposition & emulation, machine learning and statistical analysis to conduct one-to-many analysis

Cross portfolio integration — Integrates with Trellix Network Security, Trellix Email Security, Trellix File Protect and Trellix Endpoint Security

Broad OS support — Analyzes threats across Windows, macOS and Linux operating systems

Trelix



Appliances

Upto 15,840 files per day Upto 120,960 files per day



Upto 4,320 files per day



Cloud

Upto 150,000 files per day

Trellix IVX Datasheet

IVX Cloud: Integrations available

Google Chat Beta

GCP Storage^{Beta}

Trellix | IVX CLOUD Dashboard Alerts Submissions Settings Integrations Resources • amkt-297ba14e - [vinoo.thomas@fireeye.com - FireEye Inc. - MANUAL] 🔻 🔘 🕼 Slack Amazon S3 Teams Salesforce SharePoint OneDrive **Azure Blob Storage** Chrome Web Store **Chrome Extension** Slack Enterprise Dropbox Webex Beta

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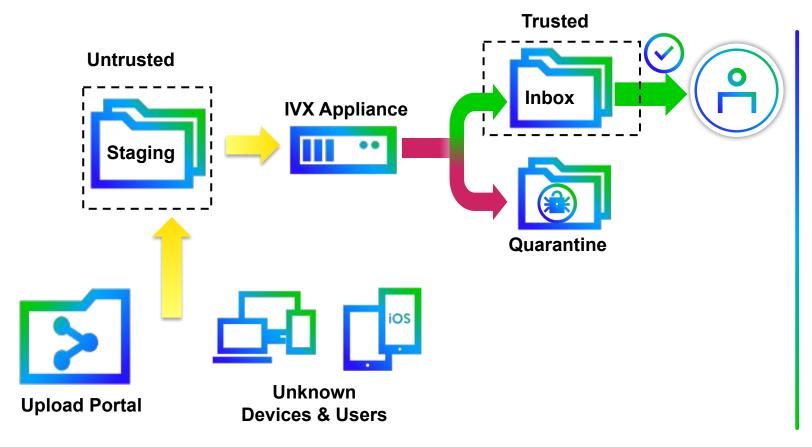
Demo IVX Cloud integration

- Chrome Extension
- S3 bucket scanning
- Custom Workflow using APIs





Trusted & Untrusted File Domains



Benefits

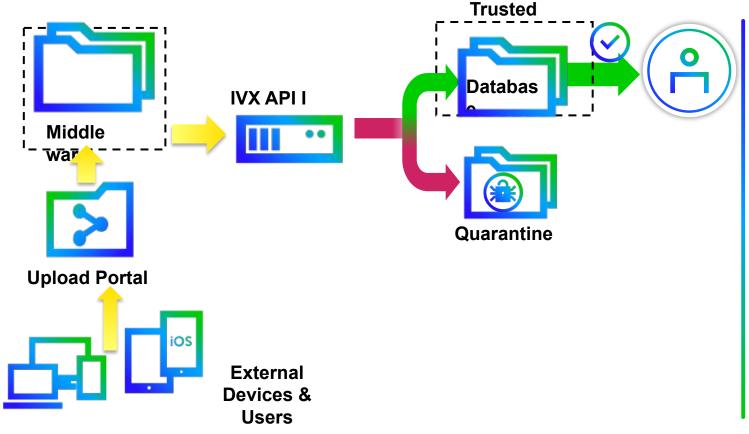
- Stop malware entering enterprise storage from untrusted area
- Ensure files are clean before end users access them

Scenarios

- Insurance Claims
- Bank Account Registration
- Visa Processing



External User Files



Benefits

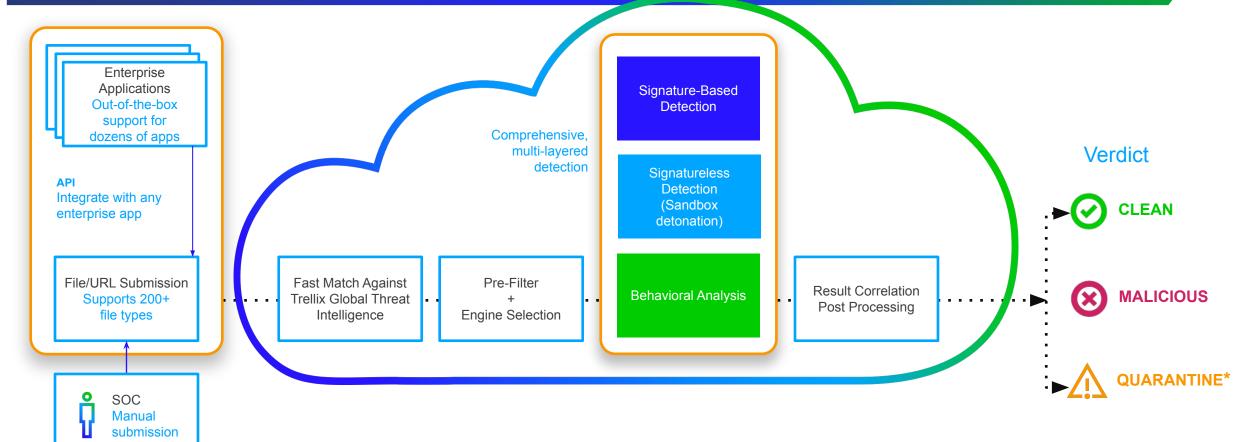
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Trellix IVX - How it works





Sandbox Evasion Techniques

Malware can easily detect a public sandbox **before executing** its payload:

Disk Drive

Disk volume serial number

Display Adapter

Domain

Host Name

MAC address

Environment variable name

Debugger present?





Sandbox Evasion Techniques

Malware can check running environment **before executing** its payload:

Mouse activity
No recent files presence
Processors Count
Performance counter frequency
Screen resolution
Sleep evasion
Time zone
Locale





Trellix IVX - Sandbox Customizations

User Name

Domain Name

Host Name

Home Directory

Windows Recent Files

Office Recent Files

Browser History URL

Honey Credentials

Honey Files & Directories

DNS Cache Entries

Host File Entries

Outlook Account

FTP Account

Skype Account

Locale & Time zone





Trellix IVX - Custom Detections

Link within Email Body Scripts Delivered via Email Executable Delivered via Email Attachment Encrypted PDF Document **Encrypted Office Document** Office Document With Embedded Object Office Document with Embedded SWF Office Document With Macro Activity **Excel Formula Python Script** Email with MS Access DB Attached Password Protected Archives Attacker Abused Legit Tool Corrupt Windows PE File Potential Zip Bomb







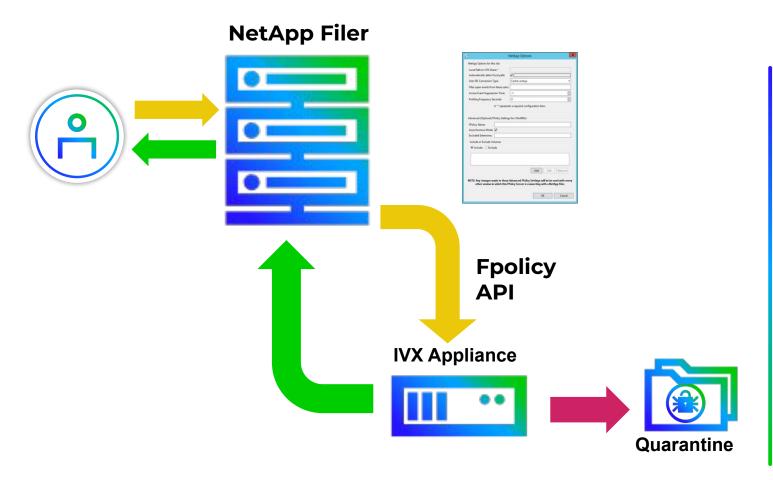
Demo **Trellix File Protect (FX)**

- NetApp scanningMount NFS/CIFS/SMB share for scan





Scanning NetApp Filer (Event Driven)



Benefits

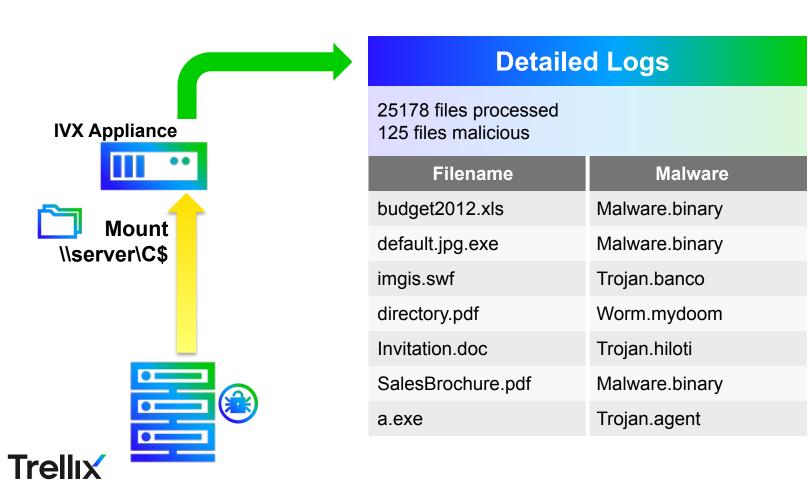
 Monitor and Scan the changes of NetApp Filer in real time through integration with **Fpolicy API**

Scenarios

 File storage and sharing in NetApp Filers



Server Hard Drive Scanning



Benefits

- Proactive scanning of server hard drive for advanced malware
- Off-box scanning of infected or legacy servers
- Identify malware not found by end-point AV

Scenarios

- Server admin team to proactively protect critical infrastructure
- CSIRT or Forensics team investigating infected servers

ATD-IVX

Upgrade Path

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- 2) Physical & Virtual ATD upgrade License auto populated in the backend
- 3) Virtual CMS and Virtual EX
 \$0 offering to assist with ATD migration
- 4) No additional OS guest image license Microsoft Windows, macOS and Linux covered
- 5) 1-Way and Offline License available
 At additional cost talk to your account team

Benefits of IVX over TIS (ATD)

Targeted for Trellix Appliances

- **Better overall detection** efficacy through proven VX multi-session execution engine technology:
 - Support for over 200 files types
 - Advanced URL analysis capabilities

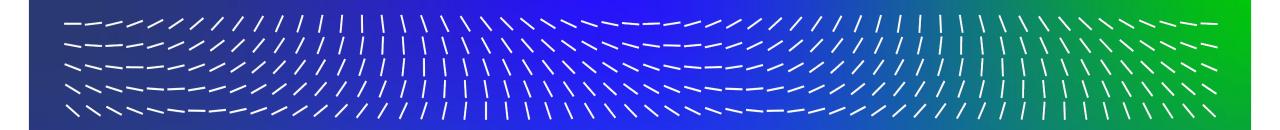
• Operational Efficiencies:

- Support for static and dynamic analysis of macOS and Linux malware.
- No additional license fees for Windows, MacOS guest images.
- The Guest **images are hardened, tuned and OS/application updates provided by Trellix**. No need for customers to maintain Guest images. (yes, customization is possible)
- Patented technology to run multiple versions of an application within the same Guest OS. Ex:
 Multiple versions of Office, java, PDF reader, Flash etc. on the same guest image
- Strategic detection engine for future development and integrations:
 - Critically, future R&D investment and new features will be focused on IVX going forward.
 Ex: Adding native ICAP interface and other integrations.
 - Collaboration Platforms and Enterprise Applications



Q&A *\-----*

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