Microsoft Defender for Endpoint

Master Class

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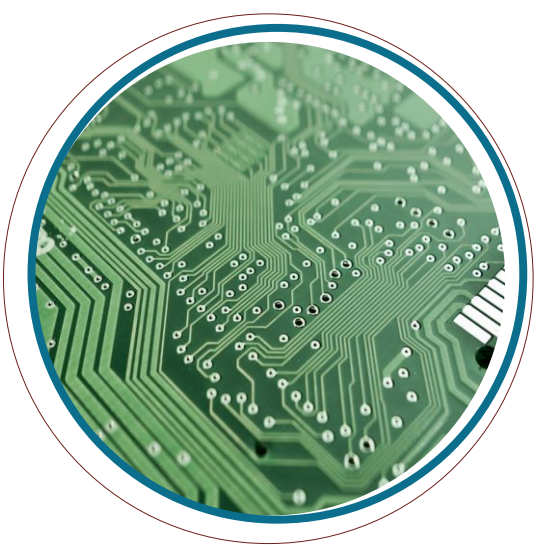
Module 5

Additional Configurations

Module 5 Contents:

- Advanced Features - Overview
- Indicators
- Web Content Filtering
- Vulnerability Management

Source: https://learn.microsoft.com/en-us/defender-endpoint/onboard-windows-client



Advanced Features

Source: https://learn.microsoft.com/en-us/defender-endpoint/overview-attack-surface-reduction

Advanced Features

Overview

- Restrict correlation to within scoped device groups
- Enable EDR in block mode
- Automatically resolve alerts
- Allow or block file
- Hide potential duplicate device records
- Custom network indicators
- Tamper protection
- Show user details
- Skype for business integration

Source: https://learn.microsoft.com/en-us/defender-endpoint/overview-attack-surface-reduction

Advanced Features

Overview

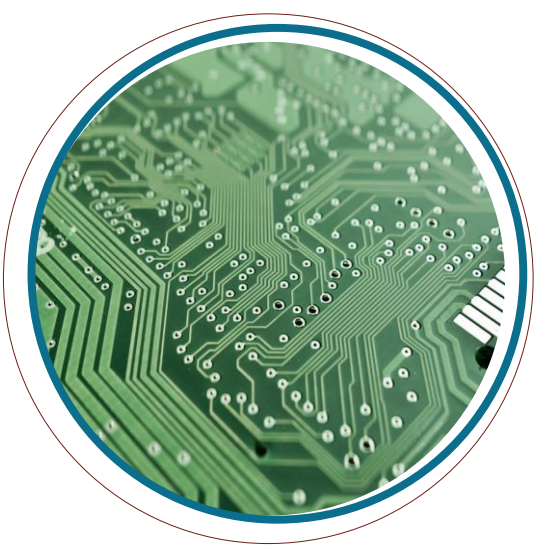
- Microsoft Defender for Cloud Apps
- Web content filtering
- Unified audit log
- Device discovery
- Download quarantined files
- Default to streamlined connectivity
- Apply streamlined connectivity settings …
- Live Response (3 times)
- Share endpoint alerts with Microsoft Compliance Center

Source: https://learn.microsoft.com/en-us/defender-endpoint/overview-attack-surface-reduction

Advanced Features

Overview

- Microsoft Intune connection
- Authenticated telemetry
- Preview Features



Indicators

Source: https://learn.microsoft.com/en-us/defender-endpoint/manage-indicators

Indicators

'*An Indicator of compromise (IoC) is a forensic artifact, observed on the network or host. […]* This capability gives SecOps the ability to set a list of indicators for detection and for blocking (prevention and response).'

Useful for

- customer known bad files e.g.
- allow false positives

Types

Source: https://learn.microsoft.com/en-us/defender-endpoint/manage-indicators

Indicators

IoC engines

- Endpoint prevention engine (MDAV)
- Automated Investigation and Remediation (AIR)
- Cloud detection

Enforcement types

- Allow
- Audit
- Warn
- Block execution
- Block and remediate

Source: https://learn.microsoft.com/en-us/defender-endpoint/manage-indicators

Indicators

Configuration

Prerequisites for all kind of IoCs

- Behavior Monitoring is enabled
- Cloud-based protection is turned on
- Cloud Protection network connectivity is functional
- Antimalware client version > 4.18.1901.x
- OS: Win 10/11; Win 2012 R2 or later (usual requirements)

Source: https://learn.microsoft.com/en-us/defender-endpoint/manage-indicators

Indicators

Configuration - **Files**

Prerequisites

- MDAV in active mode
- File hash computation enabled
  - GPO: Computer Configuration | Administrative Templates | Windows Components | Microsoft Defender AV | MpEngine
  - Policy: Enable file hash computation feature
  - PowerShell:

```
Set-MpPreference -EnableFileHashComputation $true
Get-MpPreference | Format-List -Property EnableFileHashComputation
```

Source: https://learn.microsoft.com/en-us/defender-endpoint/manage-indicators

Indicators

Configuration - **Files**

- Generate File hash of executable (*.exe or *.dll)

```
Get-FileHash -Path 'C:\Temp\notepad++.exe' -Algorithm SHA256
```

- Settings | Endpoints | Rules/Indicators
- Tab 'File hashes' | + Add item

From file investigation page also possible

Source: https://learn.microsoft.com/en-us/defender-endpoint/indicator-file#policy-conflict-handling

Indicators

Policy Conflict handling - **Files/Certs**

- Open documentation

Source: https://learn.microsoft.com/en-us/defender-endpoint/indicator-ip-domain#non-microsoft-edge-and-internet-explorer-processes

Indicators

Configuration - **IPs and URLs**

Prerequisites

- Network protection enabled
- Settings | Endpoints | Adv Features: Custom network indicators: ON

- For Non Microsoft Edge and IE processes
  - TCP, HTTP, HTTPS supported
  - only single IP addresses (no CIDR)
  - not supported in Application Guard sessions

Source: https://learn.microsoft.com/en-us/defender-endpoint/indicator-ip-domain#ioc-ip-url-and-domain-policy-conflict-handling-order

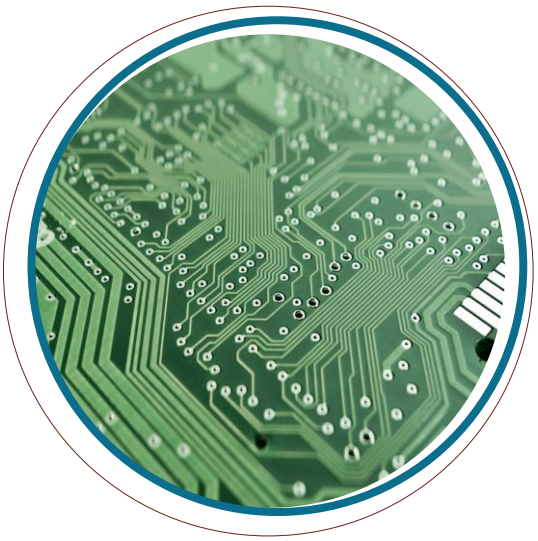
Indicators

Configuration - **IPs and URLs**

IoC conflict handling order

- *Allow* wins over *Warn* wins over *Block*

- Settings | Endpoints | Rules/Indications
- Tab 'Ip addresses' | + Add item
- Tab 'URLs/domain' | + Add item



Web Protection

Source: https://learn.microsoft.com/en-us/defender-endpoint/web-protection-overview

Web Protection

'Web protection lets you secure your devices against web threats and helps you regulate unwanted content.'

- made up of
  - Web threat protection
  - Web content filtering
  - Custom indicators

Web protection

Web threat protection

- Enabled, if Network protection is enabled

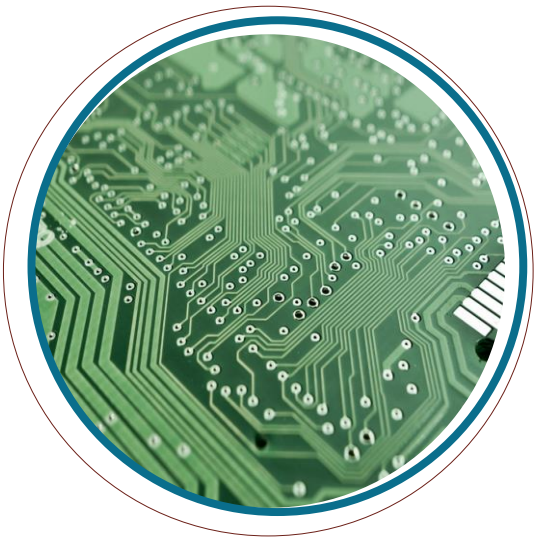
Custom Indicator

- Settings | Adv Features: Custom network indicators: On
- Configured Settings | Endpoint | Rules/Indicators
- Types:
  - IPs
  - URLs/domains

Web protection

Web content filtering

- Settings | Endpoint | Adv Features: Web content filtering: On
- Configured by policies
  - Settings | Endpoint | Rules/Web content filtering
  - Categories to block
  - Scope: Device Group this filter should be applied



Vulnerability Managment

Source: https://learn.microsoft.com/en-us/defender-vulnerability-management/defender-vulnerability-management

Vulnerability Management

'Vulnerability management serves as an infrastructure for reducing organizational exposure, hardening endpoint surface area, and increasing organizational resilience.'

Vulnerability Management

Standalone license provides all features

MDE P2 Features

Device discovery
Device inventory
Vulnerability assessment
Configuration assessment
Risk based prioritization
Remediation tracking
Continuous monitoring
Software inventory
Software usages insights

Add-On Features

Security baselines assessment
Block vulnerable applications
Browser extensions assessment
Digital certificate assessment
Network share analysis
Hardware and firmware assessment
Authenticated scan for Windows

Vulnerability Management

- Portal
- Dashboard
- Recommendations
- Remediation
- Inventories
- Weaknesses
  - Common Vulnerabilites and Exposures (CVEs)
- Event timeline

End of Module 5