# MVP Dagen



### Kjente feil og fallgruver i Microsoft sikkerhetsstacken



# Vi er Anders og Truls



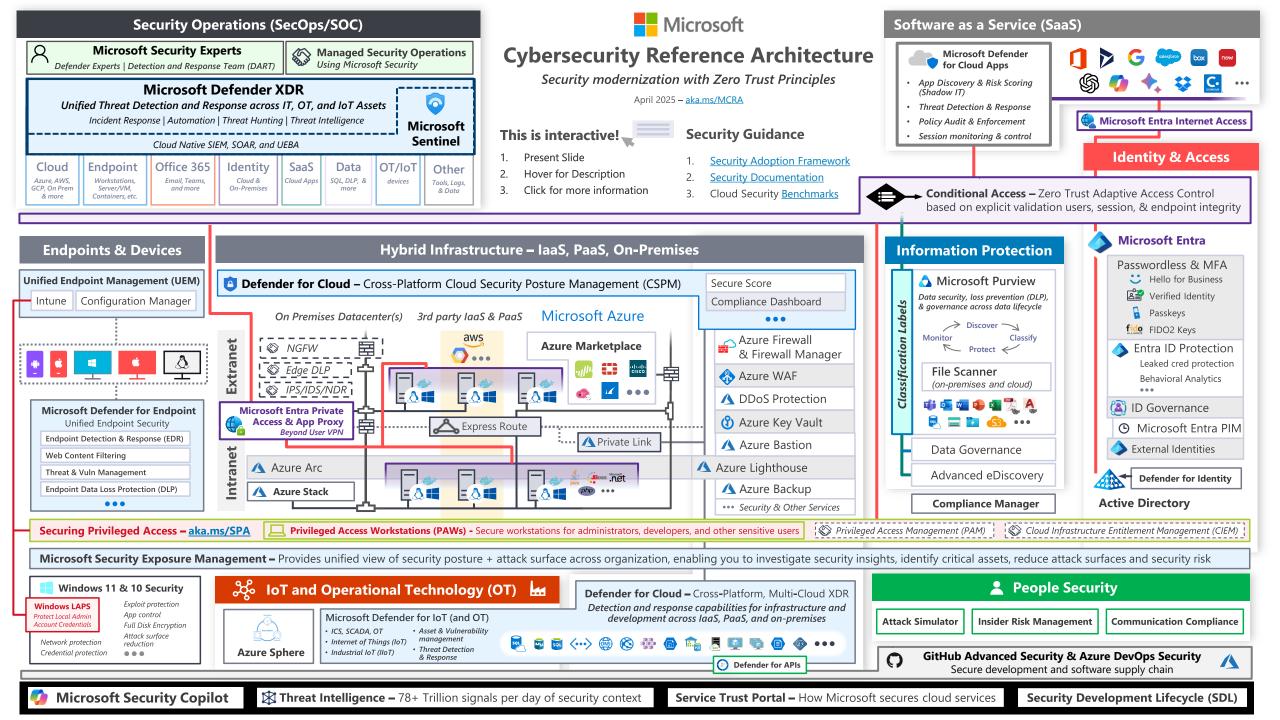
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### Dagens fokus

Microsoft Sentinel



Microsoft Defender XDR



Entra ID



### Entra ID Applikasjoner

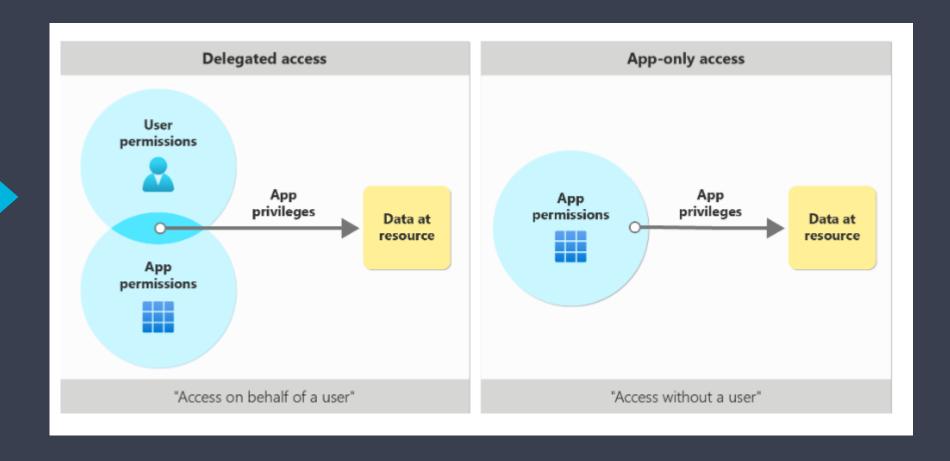
- Mye rom for feilkonfigurasjon
- Egne applikasjoner og tredjeparts applikasjoner
- o Applikasjons governance settings er 🥕
- O Deteksjon på høyt privilegerte apps

#### Marning

Microsoft-user-default-recommended is a Microsoft managed policy. The conditions included in the policy are automatically updated based on Microsoft's latest security recommendations for end-user consent.



### **Entra ID: Consents**



### Innsikt:

Innebygde verktøy:

Entra ID portal: Microsoft Entra application activity and workbooks

Security portal: App Governance

- MSIdentityTools
- AzADServicePrincipalInsights <a href="https://aka.ms/azadspi">https://aka.ms/azadspi</a>
- o Aztier.com
- o graphpermissions.merill.net
- Maester- Entra ID Config analyzer

### XDR – Hva er det?

Trenger vi msportals.io fortsatt?

Prøver å lage en portal for pre og post breach portal for bedrifter.

Sentinel vil bli fjernet 1. Juli 2026.

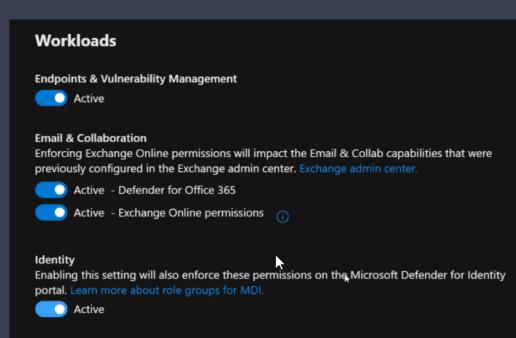
- Microsoft Defender for Endpoint
- Microsoft Defender for Office 365
- · Microsoft Defender for Identity
- · Microsoft Defender for Cloud Apps
- Microsoft Defender Vulnerability Management
- Microsoft Defender for Cloud
- Microsoft Entra ID Protection
- Microsoft Data Loss Prevention
- App Governance
- · Microsoft Purview Insider Risk Management

#### XDR Unified RBAC

Med unified RBAC Roller kan vi fjerne bruk av security admin rolle som altfor ofte brukes. (Security Admin ses på som tier 0)

Microsoft states that Unified RBAC is now the default permissions model for new tenants, existing tenants need to activate Unified RBAC

Med Unified RBAC vil man en rolle man PIMer seg opp til (om nødvendig) så har man tilgang på tvers av produkter.



Turning on this setting will apply these permissions to Microsoft Defender for Cloud Apps experiences, with the exception of app governance. Note: built in roles such as discovery admin, discovery report admin, app/instance admin and user group admin will no longer be supported

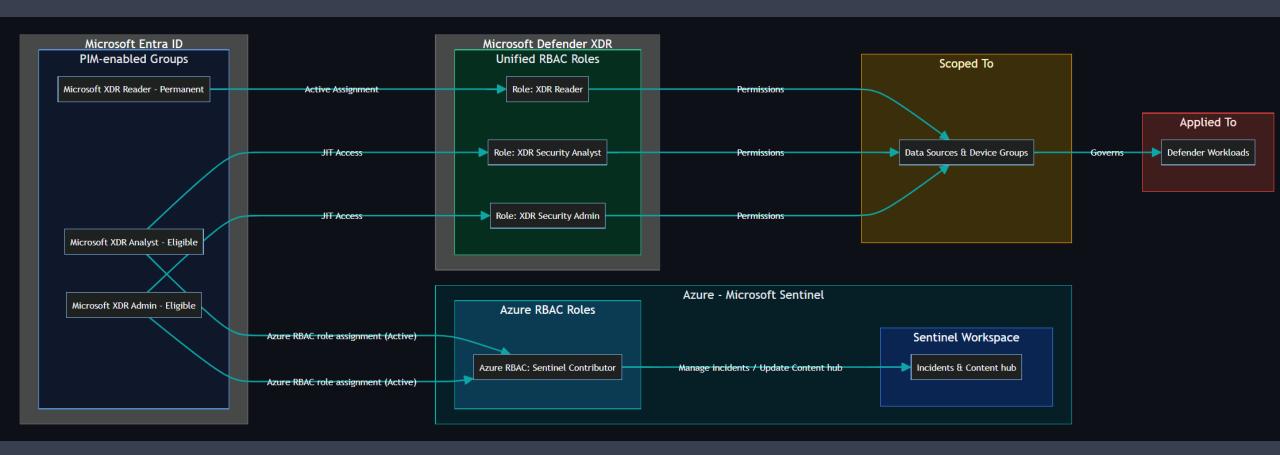
once this setting is activated. Learn more about the existing cloud apps roles.

Cloud Apps

Active

Demo - show and tell

### **XDR** Design



### Sentinel kostnader

### Sentinel Cost use Case

Hei Anders, vi må spare noe penger, sentinel koster for mye.

Pls fix asap!

1. Du må klare oppdage en kostendring





### Mail

#### **Subscription summary**

Anomaly detected Yes

Delta compared to expected range 527.14 %

#### Resource group summary

- Cost up 79.05% from 5 new resource group(s).
- Cost changed 9.09% from 3 existing resource group(s).

#### Most significant changes in resource group(s) during this period

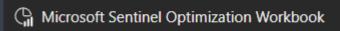
Name	Cost change %	Percent of total
mc_mvpdagen_mvpdagen-aks_ westeurope	88.43	51.94
t-aks-np	20.3	16.21
t-aks	39.66	9.09
defaultresourcegroup-weu	196.88	4.98
mvpdagen	79.22	4.82

Review additional details in the Azure portal.

### Hvordan?

#### 1.Undersøk hvor du kan "spare" eller filtrere bort data\*

- Security Portal o Sentinel o Threat Management o Workbooks
- Or Content Management- content hub



#### 2. Grav videre ned i tabell som generer mye ingest

- Avhengig av hva slags tabell dette er, finn ut om det er mønster eller om det er enkelte servere, løsninger, ressurser som "spammer" ned tabellen

### 3. Hva er egentlig denne loggkilden og hva slags data inneholder den?

Trenger vi dette I det hele tatt? (Eksisterende deteksjon, planlagte deksjoner)

Trenger vi det pga compliance/Dora?

Lag deg en matrise på hvordan du analyser de typiske spørsmålene.

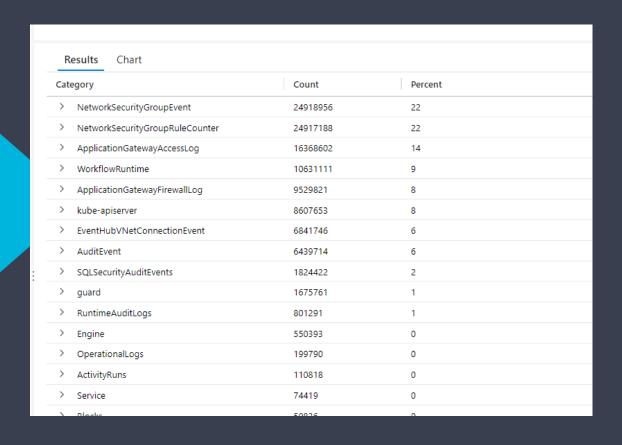
Del informasjon med stakeholders, åpent før du gjør tiltak (gjerne ADR)

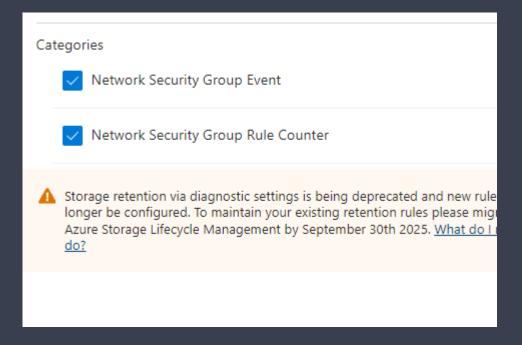
### Use case ADR: Nsg resource logs

Within the Diagnostics settings we noticed these a certain resource type was about 40 % + of the logs.

Status	COMPLETED
Owner	@Anders Kristiansen
Contributors	@Anders Kristiansen @Eirik Sveen
Approved	Approved by Security Architecture Group Sep 25, 2024
Created On	Sep 24, 2024
Decision Outcome	1: Stopp logging these events completely.  Proof of meeting
On this page	<ul> <li>Problem statement</li> <li>Research insights</li> <li>Solution hypothesis</li> <li>Posign options</li> <li>Criteria for voting</li> <li>Results</li> <li>✓ Follow up</li> <li>Examples and links</li> </ul>

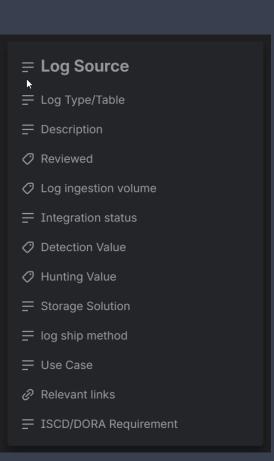
### Mye logger, er det verdt det?





### Evaluering av loggkilde

Bruker vi disse til deteksjoner? Har vi andre måter å se denne type informasjon på? Legal?



### Design opsjoner

value from both a hunting

and incident response. The

	<b>1</b>	Option 1	Option 2	Option 3
Overview		Stopp logging these events completely.	Log to storage account.	As is, Do nothing
Benefits and risks		<ul> <li>saving about 70 K SEK each month.</li> <li>Aligned with log management evualuation schema.</li> <li>no monitor to detect anomalies and high spikes in deny/allow hits.</li> </ul>	<ul> <li>cost effective solution</li> <li>Keep logs for possible audit, post mortem incident</li> <li>Most likely waste of money and never used.</li> <li>Time spent on implementing and documenting should be used on other areas.</li> </ul>	<ul> <li>All logs in sentinel ready for use with live detection.</li> <li>high cost</li> <li>Wrong tier modell on this log.</li> </ul>
Criteria/Decision drivers		These logs give little added	If these logs are required for compliance	As is solution, no required job, just pay as

and audit we should store them in

storage account.

is.

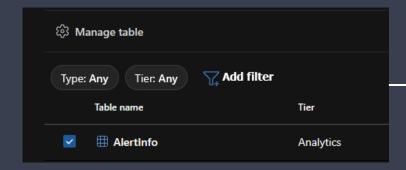
### Microsoft Sentinel Logaina

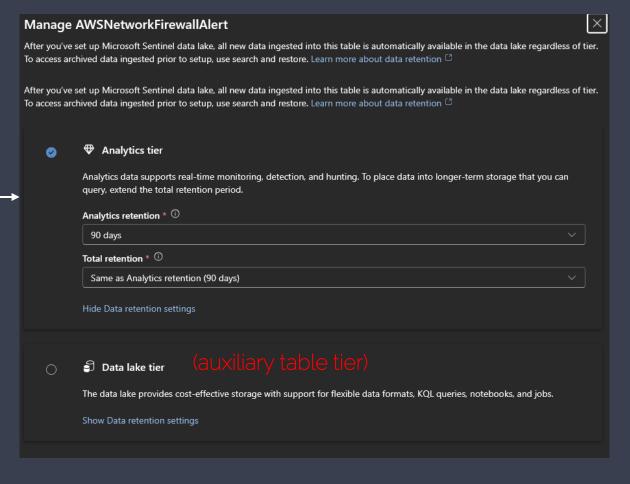
#### Feil tiering

Ofte setter man opp Sentinel og sender all logg – uansett bruksområde – direkte inn i analytic tier

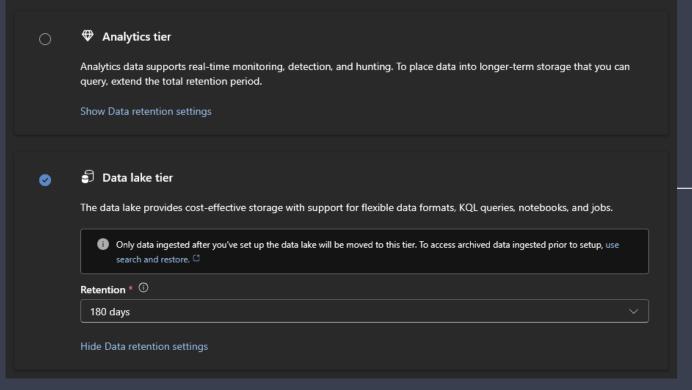
Table name ↑↓	Type ↑↓	Plan ↑↓
☐ ■ ABAPAuditLog	Azure table	Analytics
■ ABAPAuthorizationDetails	Azure table	Analytics
☐ ■ ABAPChangeDocsLog	Azure table	Analytics
☐ ■ ABAPTableDataLog	Azure table	Analytics
☐ ■ ABAPUserDetails	Azure table	Analytics
☐ ■ ADAssessmentRecommendation	Azure table	Analytics
☐ ■ ADReplicationResult	Azure table	Analytics
AggregatedSecurityAlert	Azure table	Analytics
☐ ■ Alert	Azure table	Analytics
☐ ■ AlertEvidence	Azure table	Analytics
☐ ■ Alertinfo	Azure table	Analytics
Anomalies	Azure table	Analytics
AppCenterError	Azure table	Analytics
☐ ■ ASimAuditEventLogs	Azure table	Analytics
☐ ■ ASimAuthenticationEventLogs	Azure table	Analytics

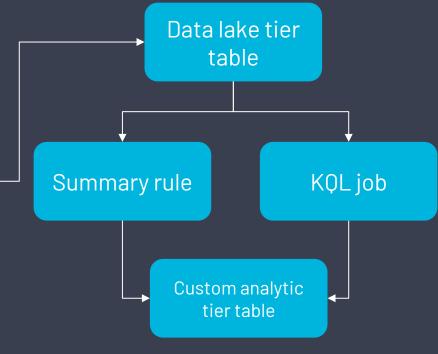
### Microsoft Sentinel





### Microsoft Sentinel Logging

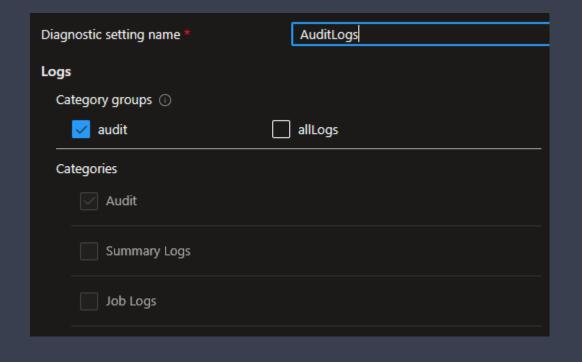




### Microsoft Sentinel Audit

#### LAQueryLogs

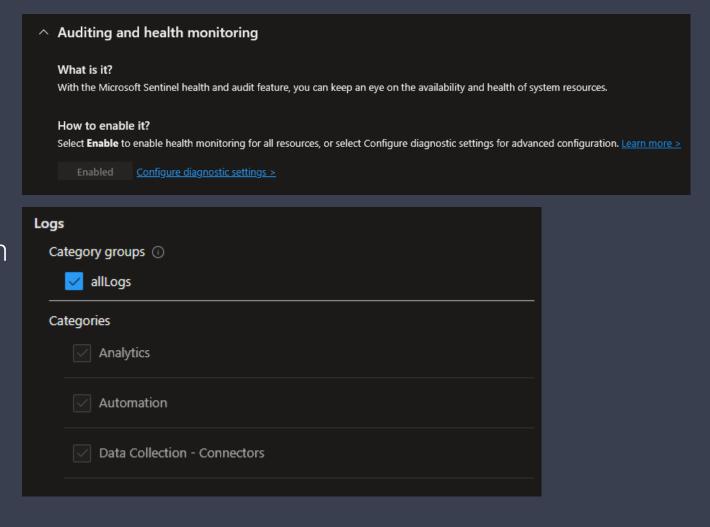
Mange glemmer å slå på Audit-logging direkte på log analytics workspacet som kreves for å bruke LAQueryLogs



### Microsoft Sentinel Health

#### SentinelHealth

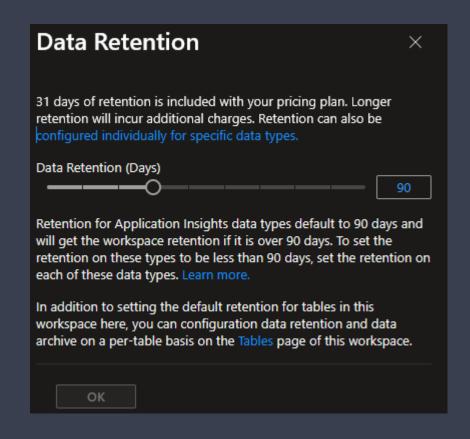
Samme historie her – SentinelHealth kan være ekstremt nyttig for å feilsøke komponenter som analytic rules, automation rules og playbooks



### Microsoft Sentinel Logging

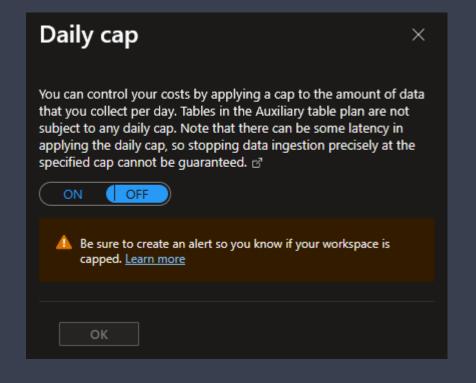
#### Workspace retention

Glemmer man å konfigurere retention på workspacet har man bare 30 dager med data – selv om 90 er «gratis»



### Microsoft Sentinel Logging

Slås kanskje på for å få kostnadskontroll uten å være klar over konsekvensen – man er effektivt blind fra man når cap



### Microsoft Sentinel Deteksjon

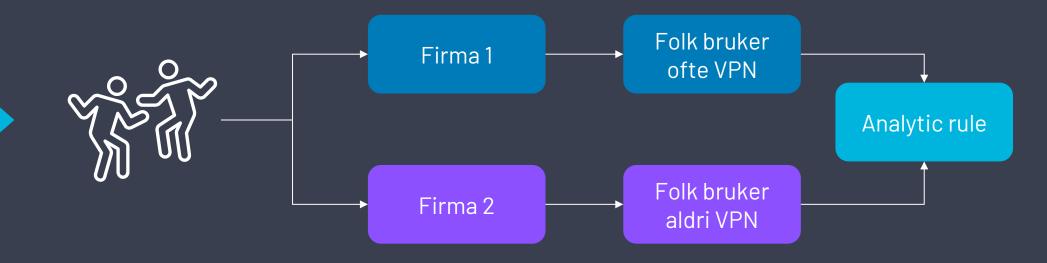
#### Manglende deteksjon

Ingen eller få alarmer til tross for «mange» regler kan bety en av to ting – enten har man lite aktivitet, ellers har man for dårlig dekning.

#### Dårlig deteksjon

Begrep som falske
positiver og alert fatigue
er velkjente i security
operations – skyldes ofte at
man belager seg på
standardmaler som ikke
egner seg for alle.

### Microsoft Sentinel Deteksjon



### Microsoft 365/Azure Audit logging

Data Source	# Unique Actions	% of Activities Covered
Purview Audit Search (Unified Audit Log)	190	99,5%
Defender For Cloud Apps CloudAppEvents Logs	170	89,5%
Sentinel OfficeActivity Logs	76	40,0%
Total Unique Actions	191	100%

# Microsoft 365/Azure Unified Audit Log

The **Unified Audit Log (UAL)** is a Microsoft 365 feature that consolidates user and administrator activity across various services into a single, searchable log.

```
PS C:\Program Files\PowerShell\7> Get-AdminAuditLogConfig | Format-List UnifiedAuditLogIngestionEnabled
UnifiedAuditLogIngestionEnabled : False
PS C:\Program Files\PowerShell\7> Set-AdminAuditLogConfig -UnifiedAuditLogIngestionEnabled $true
```

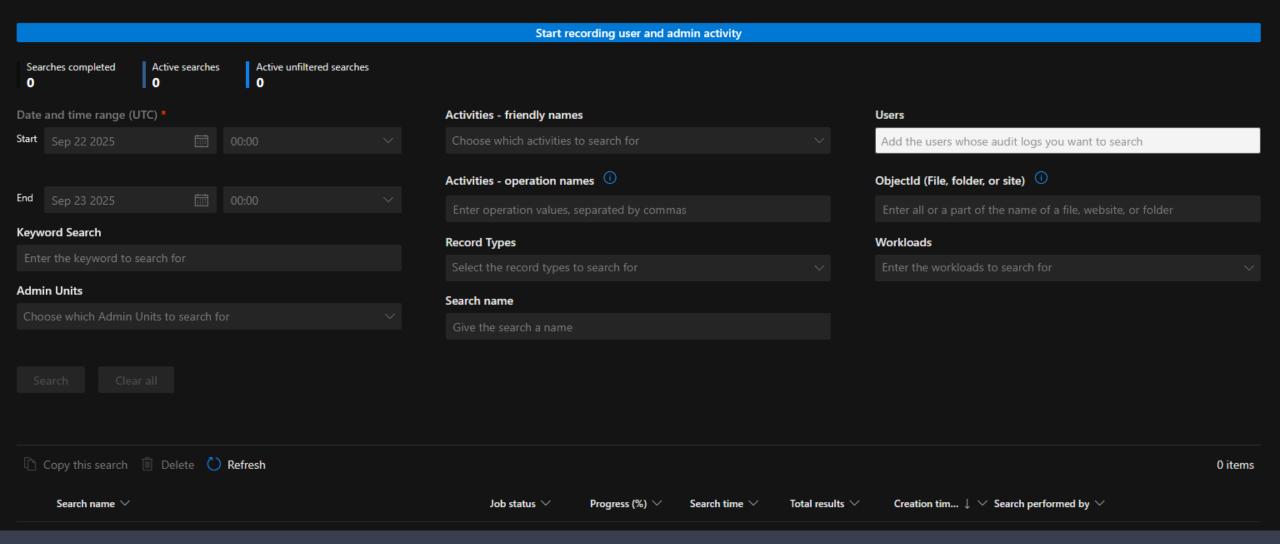




Learn about audit



Audit retention policies





https://purview.microsoft.com/auditlogsearchhttps://security.micro

### Defender for Linux Standard configuration

```
root@mde-test-tux:/home/mdetest# mdatp health
healthy
health_issues
                                             : []
licensed
                                             : true
engine_version
                                             : "1.1.25070.4000"
engine_load_status
                                             : "Engine not loaded"
app_version
                                               "101.25082.0003"
org_id
                                             : "e66378e2-49cb-4233-a97e-ea70652bcf23"
log_level
                                             : "info"
machine_quid
                                               "1585eed5-8b04-42b6-a4ee-e33207ac486f"
release_ring
                                             : "Production"
product_expiration
                                             : Jun 04, 2026 at 01:55:31 PM
cloud_enabled
                                             : true
cloud_automatic_sample_submission_consent
                                            : "safe"
cloud_diagnostic_enabled
                                             : false
cloud_pin_certificate_thumbs
                                             : false
passive_mode_enabled
                                             : true
                                             : "disabled"
behavior_monitoring
real_time_protection_enabled
                                             : false
real_time_protection_available
                                             : true
real_time_protection_subsystem
                                             : "fanotify"
supplementary_events_subsystem
                                             : "ebpf"
automatic_definition_update_enabled
                                             : true
definitions_updated
                                             : Sep 30, 2025 at 07:36:28 AM
definitions_updated_minutes_ago
definitions_version
                                             : "1.437.227.0"
definitions_status
                                             : "up_to_date"
edr_early_preview_enabled
edr_device_tags
                                             : [{"key":"AzureResourceId","value":"/subscriptions/6558eb22-631e-4ae8-9858-3c60595050e5/resourceGroups/mde-test/providers/Microsoft.Compute/virtualMachines/mde-test
-tux"},{"key":"SecurityWorkspaceId","value":"6558eb22-631e-4ae8-9858-3c60595050e5"}]
edr_group_ids
edr_configuration_version
                                             : "30.199999.main.2025.09.28.26-456999a3392a7b494c50cd4b88e64e540c495082"
edr machine id
                                               "8e7abfe9ea5494dbb992cf7fecd602d9e5fe31dd"
conflicting_applications
                                             : []
network_protection_status
                                             : "stopped"
network_protection_enforcement_level
                                             : "disabled"
```

Configuration status

Configuration updated

Real time protection/RTP

Enabled

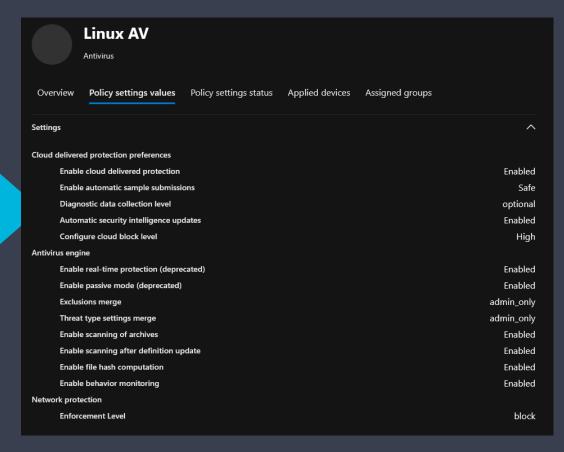
Behavior monitoring/BM

Enabled

Device health status			
Defender Antivirus not active +2 more issues			
Туре	State	Date & time	
Last full scan	No scan performed		
Last quick scan	No scan performed		
Security intelligence	<ul><li>Version 1.437.227.0</li></ul>	Sep 30, 2025 9:36:28 AM	
Engine	<ul> <li>Version 1.1.25070.4000</li> </ul>	Sep 30, 2025 9:36:25 AM	
Platform	<ul> <li>Version 101.25082.0003</li> </ul>	Sep 30, 2025 9:36:20 AM	
Defender Antivirus mode	• Passive	Sep 30, 2025 8:57:16 PM	

Device health status			
Security intelligence is not up to date +4 more issues			
Туре	State	Date & time	
Last full scan	No scan performed		
Last quick scan	No scan performed		
Security intelligence	• Version 1.409.120.0	Apr 8, 2024 10:25:08 AM	
Engine	• Version 1.1.24030.4	Apr 8, 2024 10:25:08 AM	
Platform	Version 4.18.24020.7	Sep 3, 2025 1:47:24 PM	
Defender Antivirus mode	Active	Sep 30, 2025 8:59:17 PM	

### Defender for Linux Endpoint Security Policies



### mdatp\_managed.json

```
"antivirusEngine":{
   "enforcementLevel": "real_time",
   "threatTypeSettings":[
         "key": "potentially unwanted application",
         "value": "block"
         "key": "archive bomb",
         "value": "audit"
"cloudService":{
   "automaticDefinitionUpdateEnabled":true,
   "automaticSampleSubmissionConsent": "safe",
   "enabled":true,
   "proxy": "<EXAMPLE DO NOT USE> http://proxy.server:port/"
```

- Make sure it's valid json
- Set realtime monitoring on
- Enable cloud block mode
- Enable cloud protection
- Set all merge policies to admin\_only!

https://learn.microsoft.com/en-us/defenderendpoint/linux-preferences

### Defender for Cloud Apps Standard configuration

#### Blokkering av applikasjoner

For å blokkere applikasjoner som er markert unsanctioned må man sette på integrasjon mot Defender for Endpoint

Microsoft Defender for Endpoint

Microsoft Defender for Endpoint Integration

Enforce app access
Enabling this will Block access to apps that were marked as Unsanctioned and will deliver a Warning on access and allow bypass to apps marked as Monitored.

#### Oppdagelse og blokkering av applikasjoner

Må også sette på integrasjonen fra Defender for Endpoint sine settings mot MCAS



#### On

#### **Microsoft Defender for Cloud Apps**

Forwards Microsoft Defender for Endpoint signals to Defender for Cloud Apps, giving administrators deeper visibility into both sanctioned cloud apps and shadow IT. It also gives them the ability to block unauthorized applications when the custom network indicators setting is turned on. Forwarded data is stored and processed in the same location as your Cloud App Security data. This feature is available with an E5 license for Enterprise Mobility + Security on devices running Windows 10 version 1709 (OS Build 16299.1085 with KB4493441), Windows 10 version 1803 (OS Build 17134.704 with KB4493464), Windows 10 version 1809 (OS Build 17763.379 with KB4489899) or later Windows 10 versions.

#### Custom network indicators

MCAS legger inn domener, URL og IP her når man markerer som unsanctioned – så dette må også stå på



#### **Custom network indicators**

Configures devices to allow or block connections to IP addresses, domains, or URLs in your custom indicator lists. To use this feature, devices must be running Windows 10 version 1709 or later. They should also have network protection in block mode and version 4.18.1906.3 or later of the antimalware platform (see KB 4052623). Note that network protection leverages reputation services that process requests in locations that might be outside of the location you have selected for your Microsoft Defender for Endpoint data.

#### EDR i blokkeringsmodus

Når Defender ikke er hovedpersonen på en server er blokkeringsmodus nyttig for ekstra beskyttelse – ingen grunn til å ha det slått av (utenom oppdukkende kompabilitetsproblemer)



#### Enable EDR in block mode

When turned on, Microsoft Defender for Endpoint leverages behavioral blocking and containment capabilities by blocking malicious artifacts or behaviors observed through post-breach endpoint detection and response (EDR) capabilities. This feature does not change how Microsoft Defender for Endpoint performs detection, alert generation, and incident correlation. To get the best protection, make sure to apply security baselines in Intune. See EDR in block mode for more details.

#### Automatisk lukking av alarmer

Har en tendens til å lukke alarmer med f.eks URL-klikk på phishing-lenker uten å faktisk få verifisert om brukeren har gitt fra seg info.



Automatically resolve alerts

Resolves an alert if Automated investigation finds no threats or has successfully remediated all malicious artifacts.

#### Automation uploads fra automated investigation

#### **File Content Analysis**

Content analysis submits suspicious files identified by Automated investigation to the cloud for additional inspection. Only files with the specified extension names will be submitted.

#### Content analysis



Off

File extension names (1)

air, bat, cmd, com, cpl, dll, elf, exe, gadget, inf, job. js, ko, ko. gz, msi, pl, ps, 1, py, rb, reg, rgs, scr, sh, sys, tcl, url, vb, vbe, vbs, ws, wsf

#### **Memory Content Analysis**

If you would like Microsoft Defender for Endpoint to automatically investigate memory content of processes, please enable the Memory Content Analysis. When enabled, memory content might be uploaded to Microsoft Defender for Endpoint during an Automated investigation.

#### Enabled



Off

### Takk

### Spørsmål?

#### Du finner oss på:

- Anders @linkedin.com/in/akristiansendotcom
- Truls @linkedin.com/in/truls-dahlsveen/

