Start here

Tuesday, October 25, 2022 2:37 PM

Hi,

This OneNote Study Guide has been created to help you prepare for the SC-200 exam. Please note this is not an official Microsoft document.

Tabs
Overview - includes list of exam objectives and other resources. Most resources are Microsoft specific but I have included non-Microsoft links.

The exam domains each have a tab and each set of objectives have a page within the domain. I have included links to the Microsoft docs. Those can be found on the left side of the page. Additional links are on the right.

Please feel free to update and change this OneNote to help you prepare for SC-200.

List of Objectives

Tuesday, October 25, 2022 10:41 AM

[Course SC-200T00--A: Microsoft Security Operations Analyst - Training | Microsoft Learn]

Mitigate threats using Microsoft 365 Defender (25–30%)
Mitigate threats to the productivity environment by using Microsoft 365 Defender

- Investigate, respond, and remediate threats to Microsoft Teams, SharePoint, and OneDrive
- Investigate, respond, and remediate threats to email by using Microsoft Defender for Office 365
- Investigate and respond to alerts generated from Data Loss Prevention policies
- Investigate and respond to alerts generated from insider risk policies
- Identify, investigate, and remediate security risks by using Microsoft Defender for Cloud Apps
- Configure Microsoft Defender for Cloud Apps to generate alerts and reports to detect threats

Mitigate endpoint threats by using Microsoft Defender for Endpoint

- Manage data retention, alert notification, and advanced features
- Recommend security baselines for devices
- Respond to incidents and alerts
- Manage automated investigations and remediations
- Assess and recommend endpoint configurations to reduce and remediate vulnerabilities by using the Microsoft's threat and vulnerability management solution
- Manage endpoint threat indicators

Mitigate identity threats

- Identify and remediate security risks related to Azure AD Identity Protection events
- Identify and remediate security risks related to conditional access events
- Identify and remediate security risks related to Azure Active Directory events
- Identify and remediate security risks related to Active Directory Domain Services using Microsoft Defender for Identity

Manage extended detection and response (XDR) in Microsoft 365 Defender

- Manage incidents across Microsoft 365 Defender products
- Manage investigation and remediation actions in the Action Center
- Perform threat hunting
- Identify and remediate security risks using Microsoft Secure Score
- Analyze threat analytics
- Configure and manage custom detections and alerts

Exam SC-200: Microsoft Security Operations Analyst

Mitigate threats using Microsoft Defender for Cloud (20–25%)
Implement and maintain cloud security posture management and workload protection

- Plan and configure Microsoft Defender for Cloud settings, including selecting target subscriptions and workspaces
- Configure Microsoft Defender for Cloud roles
- Assess and recommend cloud workload protection
- Identify and remediate security risks using the Microsoft Defender for Cloud Secure Score
- Manage policies for regulatory compliance
- Review and remediate security recommendations

Plan and implement the use of data connectors for ingestion of data sources in Microsoft Defender for Cloud

- Identify data sources to be ingested for Microsoft Defender for Cloud
- Configure automated onboarding for Azure resources
- Connect multi-cloud and on-premises resources
- Configure data collections

Configure and respond to alerts and incidents in Microsoft Defender for Cloud

- Validate alert configuration
- Set up email notifications
- Create and manage alert suppression rules
- Design and configure workflow automation in Microsoft Defender for Cloud
- Remediate alerts and incidents by using Microsoft Defender for Cloud recommendations
- Manage security alerts and incidents

- Analyze Microsoft Defender for Cloud threat intelligence reports
- Manage user data discovered during an investigation

Mitigate threats using Microsoft Sentinel (50–55%)

Design and configure a Microsoft Sentinel workspace

- Plan a Microsoft Sentinel workspace
- Configure Microsoft Sentinel roles
- Design and configure Microsoft Sentinel data storage
- Implement and use Content hub, repositories, and community resources

Plan and implement the use of data connectors for ingestion of data sources in Microsoft Sentinel

- Identify data sources to be ingested for Microsoft Sentinel
- Identify the prerequisites for a Microsoft Sentinel data connector

Exam SC-200: Microsoft Security Operations Analyst

- Configure and use Microsoft Sentinel data connectors
- Configure Microsoft Sentinel data connectors by using Azure Policy
- Configure Microsoft Sentinel connectors for Microsoft 365 Defender and Microsoft Defender for Cloud
- Design and configure Syslog and CEF event collections
- Design and configure Windows Security event collections
- Configure custom threat intelligence connectors

Manage Microsoft Sentinel analytics rules

- Design and configure analytics rules
- Activate Microsoft security analytics rules
- Configure built-in scheduled queries
- Configure custom scheduled queries
- Define incident creation logic
- Manage and use watchlists
- Manage and use threat indicators

Perform data classification and normalization

- Classify and analyze data by using entities
- Create custom logs in Azure Log Analytics to store custom data
- Query Microsoft Sentinel data by using Advanced SIEM Information Model (ASIM) parsers
- Develop and manage ASIM parsers

Configure Security Orchestration, Automation, and Response (SOAR) in Microsoft Sentinel

- Configure automation rules
- Create and configure Microsoft Sentinel playbooks
- Configure alerts and incidents to trigger automation
- Use automation to remediate threats
- Use automation to manage incidents

Manage Microsoft Sentinel incidents

- Triage incidents in Microsoft Sentinel
- Investigate incidents in Microsoft Sentinel
- Respond to incidents in Microsoft Sentinel
- Investigate multi-workspace incidents
- Identify advanced threats with Entity Behavior Analytics

Use Microsoft Sentinel workbooks to analyze and interpret data

- Activate and customize Microsoft Sentinel workbook templates
- Create custom workbooks

Exam SC-200: Microsoft Security Operations Analyst

- Configure advanced visualizations
- View and analyze Microsoft Sentinel data using workbooks
- Track incident metrics using the security operations efficiency workbook

Hunt for threats using Microsoft Sentinel

- Create custom hunting queries
- Run hunting queries manually
- Monitor hunting queries by using Livestream
- Configure and use MSTICPy in notebooks
- Perform hunting by using notebooks
- Track query results with bookmarks

- Use hunting bookmarks for data investigations
- Convert a hunting query to an analytical rule

Additional Links

Tuesday, October 25, 2022 10:50 AM

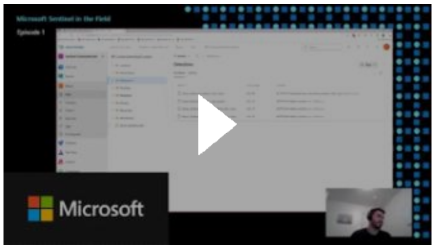
Microsoft Cybersecurity Reference Architectures
Microsoft Cybersecurity Reference Architectures - Security documentation | Microsoft Learn

Sentinel documentation on GitHub. Fantastic Resource
azure-docs/articles/sentinel at main · MicrosoftDocs/azure-docs (github.com)

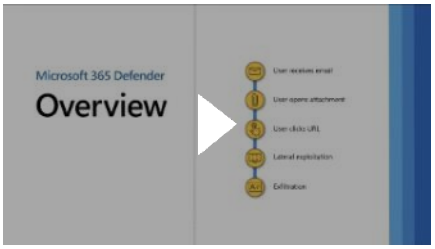
Log Analytics Demo
https://aka.ms/lademo

Microsoft Security YouTube Channel
Microsoft Security - YouTube

Microsoft Sentinel in the Field
Managing security content as code - Microsoft Sentinel in the Field #1



Microsoft 365 Defender Overview
Microsoft 365 Defender Playlist



Defender for MS 365 Playlist
Microsoft Defender for Office 365

https://github.com/Azure/Azure-Sentinel

SC-900
https://learn.microsoft.com/en-us/certifications/exams/sc-900

https://learn.microsoft.com/en-us/security/zero-trust/zero-trust-overview

Introduction - OWASP Cheat Sheet Series

Zen and the Art of Threat Hunting
https://www.microsoft.com/en-us/security/blog/2020/06/25/zen-and-the-art-of-threat-hunting/

http://download.microsoft.com/download/6/3/A/63AFA3DF-BB84-4B38-8704-B27605B99DA7/Microsoft%20SDL%20Cryptographic%20Recommendations.pdf

Microsoft Security Development Lifecycle Practices

Microsoft Learn Cloud Games | Microsoft Learn

Home | M365 Maps

Links from Class

Tuesday, October 25, 2022 12:01 PM

HOWTO: Set an alert to notify when an Azure AD emergency access account is used - The things that are better left unspoken (dirteam.com)

Governance
https://learn.microsoft.com/en-us/azure/governance/

Sentinel Pricing
https://azure.microsoft.com/en-us/pricing/details/microsoft-sentinel/

Security Portals and admin centers
Microsoft security portals and admin centers | Microsoft Learn

PCI Data Security Standards
https://learn.microsoft.com/en-us/compliance/regulatory/offering-pci-dss

EASM
https://www.microsoft.com/en-us/security/business/cloud-security/microsoft-defender-external-attack-surface-management

Query multiple log analytics workspaces
https://techcommunity.microsoft.com/t5/itops-talk-blog/querying-multiple-log-analytics-workspace-at-once/ba-p/990843

https://learn.microsoft.com/en-us/azure/azure-monitor/logs/cross-workspace-query

Sentinel Hunting Query Pack
https://danielchronlund.com/2022/10/03/sentinel-hunting-query-pack-dcsecurityoperations/

Closing the Cybersecurity skills gap - Microsoft
https://blogs.microsoft.com/blog/2022/03/23/closing-the-cybersecurity-skills-gap-microsoft-expands-efforts-to-23-countries/

Azure AD Pricing
https://www.microsoft.com/en-ca/security/business/identity-access/azure-active-directory-pricing?rtc=1

Azure Free Account
https://azure.microsoft.com/en-ca/free/

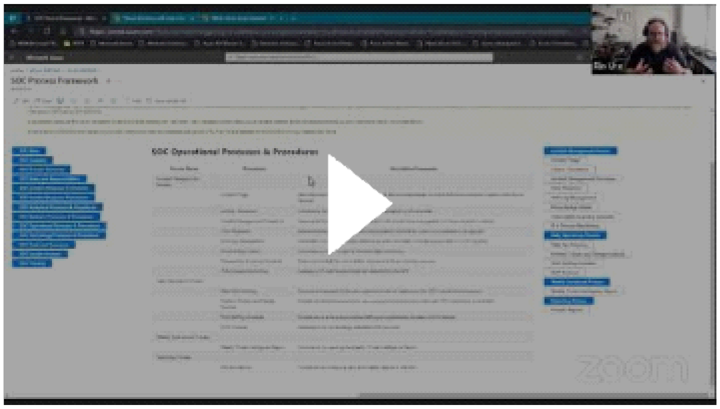
MS 365 Business
https://www.microsoft.com/en-ca/microsoft-365/business/compare-all-microsoft-365-business-products

Office 365 E5
https://www.microsoft.com/en-us/microsoft-365/enterprise/office-365-e5?activetab=pivot%3aoverviewtab

Office 365 E3
https://www.microsoft.com/en-us/microsoft-365/enterprise/e3?activetab=pivot%3aoverviewtab

Azure Pricing Calculator
https://azure.microsoft.com/en-us/pricing/calculator/

Azure Sentinel SOC Process Framework Workbook
Demo: Azure Sentinel SOC Process Framework Workbook with Rin Ure



https://github.com/Azure/Azure-Sentinel/wiki/SOC-Process-Framework

Connect Hybrid machines to Azure at Scale
https://learn.microsoft.com/en-us/azure/azure-arc/servers/onboard-service-principal

KQL

Tuesday, October 25, 2022 2:02 PM

Learning Kusto Query Language - A tool for performance test engineers (microsoft.com)

https://squaredup.com/blog/kusto-table-joins-and-the-let-statement/

Storm KQL Tutorial Tutorial: Learn common Kusto Query Language operators - Azure Data Explorer | Microsoft Learn

KQL quick reference | Microsoft Learn

rod-trent/MustLearnKQL: Code included as part of the MustLearnKQL blog series (github.com) - includes a free pdf book

KQL/kql_cheat_sheet_v01.pdf at master · marcusbakker/KQL (github.com)

John Savill Kusto Query Language (KQL) Overview

KQL in Sentinel Kusto Query Language in Microsoft Sentinel | Microsoft Learn

UTC to local time
https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/datetime-utc-to-local-function
datetime_utc_to_local(*from*,*timezone*)

From <https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/datetime-utc-to-local-function>

Join Operator
https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/joinoperator?pivots=azuredataexplorer

Kusto Query to extract useful fields from Azure Firewall
https://gist.github.com/marknettle/13fd0c49fe9eeb400572b279790f78bf

Extract Function
https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/extractfunction

https://dev.to/omiossec/introduction-to-kusto-query-language-kql-in-azure-monitor-2cpd

https://www.sqlservercentral.com/articles/an-introduction-to-kusto-query-language-kql

https://www.kustoking.com/basic-searching-and-string-operators/

https://azure-training.com/azure-data-science/the-kusto-query-language/

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/schema-entities/

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/concepts/

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/sqlcheatsheet

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/makelist-aggfunction

https://docs.microsoft.com/en-us/azure/data-explorer/kusto/query/tutorial?pivots=azuremonitor

From <https://teams.microsoft.com/multi-window/?agent=electron&version=22111412800>

Splunk to Kusto
https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/splunk-cheat-sheet

SQL to Kusto

https://learn.microsoft.com/en-us/azure/data-explorer/kusto/query/sqlcheatsheet

Learning Kusto Query Language A tool for performance test engineers
https://techcommunity.microsoft.com/t5/testingspot-blog/learning-kusto-query-language-a-tool-for-performance-test/ba-p/2308480

SC-200 Learning Paths

Monday, October 24, 2022 9:39 AM

SC-200: Mitigate threats using Microsoft 365 Defender
https://learn.microsoft.com/en-us/training/paths/sc-200-mitigate-threats-using-microsoft-365-defender/

SC-200: Mitigate threats using Microsoft Defender for Endpoint
https://learn.microsoft.com/en-us/training/paths/sc-200-mitigate-threats-using-microsoft-defender-for-endpoint/

SC-200: Mitigate threats using Microsoft Defender for Cloud
https://learn.microsoft.com/en-us/training/paths/sc-200-mitigate-threats-using-azure-defender/

SC-200: Create queries for Microsoft Sentinel using Kusto Query Language (KQL)
https://learn.microsoft.com/en-us/training/paths/sc-200-utilize-kql-for-azure-sentinel/

SC-200: Configure your Microsoft Sentinel environment
https://learn.microsoft.com/en-us/training/paths/sc-200-configure-azure-sentinel-environment/

SC-200: Connect logs to Microsoft Sentinel
https://learn.microsoft.com/en-us/training/paths/sc-200-connect-logs-to-azure-sentinel/

SC-200: Create detections and perform investigations using Microsoft Sentinel
https://learn.microsoft.com/en-us/training/paths/sc-200-create-detections-perform-investigations-azure-sentinel/

SC-200: Perform threat hunting in Microsoft Sentinel
https://learn.microsoft.com/en-us/training/paths/sc-200-perform-threat-hunting-azure-sentinel/

Additional Training Resources

Microsoft Certification Poster
Become Microsoft Certified

ESI Azure Training Journey (microsoft.com)

Learn Live | Microsoft Learn

E-Books
Resource search results | Microsoft Azure

Ninja Training

Thursday, November 17, 2022 2:11 PM

Defender Ninja Training
Microsoft Defender for Cloud Apps Ninja Training | June 2022 - Microsoft Community Hub
Microsoft Defender for Identity Ninja Training - Microsoft Community Hub
Become a Microsoft Defender for Endpoint Ninja - Microsoft Community Hub

Microsoft Cloud App Security
https://techcommunity.microsoft.com/t5/security-compliance-and-identity/the-microsoft-cloud-app-security-mcas-ninja-training-march-2021/ba-p/1877343

Complete Sentinel Ninja Level 400 training
https://techcommunity.microsoft.com/t5/microsoft-sentinel-blog/become-a-microsoft-sentinel-ninja-the-complete-level-400/ba-p/1246310

Service Mappings

Tuesday, December 13, 2022 12:31 PM

Azure AD	Cloud management. Houses tenants. B2C, B2B. Azure AD Connect. Supports SCIM.
PHS	Hash of a hash. Authentication occurs in the cloud. Password writeback keeps password changes synced Device writeback enabled conditional access in AD FS.
PTA	Authentication occurs on-premises. Requires authentication agent(s) on premises. Use when password policies, and sign -in hours are required.
Federation	Requires federated proxy server and federation servers. Required when using Smart cards.
Identity Protection	Leaked Credentials
Identity Governance aka Entra	PIM, Privileged Access Lifecycle. P2 license
Defender for Endpoint	DLP, Endpoint protection. Live response.
Defender for Cloud	Cloud Security Posture Management. Azure, AWS and GCP. Secure Score, recommendations, vulnerability assessments, file integri ty monitoring.
Defender for Office 365	Phishing, training
Defender for IoT	Manage IoT resources. Asset discovery, threat detection and response. Agent or network sensor.
Defender for MS 365	Detection, prevention, investigation and response across email, endpoints, identities and applications.
Defender for Identity	Lateral movement, User Behavior and Activities. Used for on-prem, requires sensors.
Microsoft Purview	Govern, protect, manage data. Classification. Identify sensitive data i.e. credit card. Locates sensitive data. eDiscovery=Pr emium sku
Azure Sphere	IoT. Secure MCU, Linux OS.
Intune	Onboard devices can be used in conjunction with Configuration manager.
Configuration Manager	Onboard devices can be used in conjunction with Intune.
Azure AD App Proxy	Secure remotes access to on-prem web apps.
Azure Sentinel	SIEM/SOAR. Pulls from log analytics. Has connectors to various stores. Uses KQL for hunting, etc. Recommendations, workbooks, playbooks.
Azure ARC	Manage resources on-premises via Azure.
Azure Stack	Extends Azure services to other environments and remote locations.
Azure Lighthouse	Cross-tenant management.
Azure Bastion	Secure RDP to vms in Azure. Removes the requirement for public IP on the vms.
Azure Firewall	L3-L7 filtering and threat intelligence feeds. Known malicious Ips and FQDNs. Premium sku includes TLS filtering, IDPS, URL filt ering. Traffic is denied by default.
Network Security Groups	Allows deny traffic to subnet and/or network interface.
Private Endpoint	Connect to an Azure resource directly from vnet. Uses a private IP. Services include Azure Storage, Cosmos DB, SQL DB. Requir es a Private Link.
DDOS Protection	Infrastructure protection already enabled. Enhanced protection requires Azure DDoS Protection Plan $$
Azure Key Vault	Keys, secrets and certificates. Management plane = manage key vault, Data plane = manage data in the key vault.
Azure Automation Update Management	Patch management. Scheduling and managing updates.
Azure Blueprints	ARM Templates, Policies, Resource Groups, Role Assignments. Automated environment setup.
Desired State Configuration	Configuration of guest OS.
Azure Policy	Enforcing and auditing of the environment. IE location of resources, enforcing Tags, applying compliance requirements.
Virtual Machine	Secure using Azure Disk Encryption Linux=DmCrypt, Windows=Bitlocker. Backup vms. Use JIT. Protect using Defender for Cloud. U se File Integrity monitoring.
Storage	Use HTTPs over HTTP, enable Secure Transfer required. Limit access to SAS tokens. Regenerate keys (MS managed or customer man aged). Uses Server Side Encryption (SSE) by default, can't be turned off.
JIT	Allow access via a port. Can time restrict and/or restrict to ip range.
Information Rights Management	Control what can be done to data. IE restrict copy, print, forward.

Logic Apps

Thursday, January 19, 2023 11:20 AM

Overview - Azure Logic Apps | Microsoft Learn

Training
Build automated workflows to integrate data and apps with Azure Logic Apps - Training | Microsoft Learn

Mitigate threats to the productivity environment by using Microsoft 365 Defender

Tuesday, October 25, 2022 10:42 AM

Investigate, respond, and remediate threats to Microsoft Teams, SharePoint, and OneDrive
Built-in virus protection in SharePoint Online, OneDrive, and Microsoft Teams - Office 365 | Microsoft Learn

• Investigate, respond, and remediate threats to email by using Microsoft Defender for Office 365
Microsoft Defender for Office 365 - Office 365 | Microsoft Learn
Plans - Microsoft Defender for Office 365 - Office 365 | Microsoft Learn

• Investigate and respond to alerts generated from Data Loss Prevention policies
Investigate data loss incidents with Microsoft 365 Defender | Microsoft Learn

• Investigate and respond to alerts generated from insider risk policies
Insider risk management settings - Microsoft Purview (compliance) | Microsoft Learn

• Identify, investigate, and remediate security risks by using Microsoft Defender for Cloud Apps
What is Defender for Cloud Apps? | Microsoft Learn
Best practices for protecting your organization | Microsoft Learn

• Configure Microsoft Defender for Cloud Apps to generate alerts and reports to detect threats
Defender for Cloud Apps anomaly detection alerts investigation guide | Microsoft Learn

Defense in depth security in Azure | Microsoft Learn

https://www.microsoft.com/en-us/security/business/security-101/what-is-a-cloud-access-security-broker-casb

MS Defender for Cloud Apps Ops Guide :
https://query.prod.cms.rt.microsoft.com/cms/api/am/binary/RWYAzA

Mitigate endpoint threats by using Microsoft Defender for Endpoint

Tuesday, October 25, 2022 10:44 AM

Microsoft Defender for Endpoint | Microsoft Learn

Compare Microsoft endpoint security plans | Microsoft Learn

Plan 1 Overview of Microsoft Defender for Endpoint Plan 1 | Microsoft Learn
Plan 2 Microsoft Defender for Endpoint | Microsoft Learn

Manage data retention, alert notification, and advanced features

• Recommend security baselines for devices
Settings list for the Microsoft Defender for Endpoint security baseline in Microsoft Intune - Microsoft Intune | Microsoft Learn

• Respond to incidents and alerts
Security alerts and incidents in Microsoft Defender for Cloud | Microsoft Learn

• Manage automated investigations and remediations
Automation levels in automated investigation and remediation | Microsoft Learn
Review remediation actions following automated investigations | Microsoft Learn

• Assess and recommend endpoint configurations to reduce and remediate vulnerabilities by using the Microsoft's threat and vulnerability management solution

• Manage endpoint threat indicators
Create indicators | Microsoft Learn

https://learn.microsoft.com/en-us/microsoft-365/security/defender-endpoint/attack-surface-reduction-rules-reference?view=o365-worldwide

https://techcommunity.microsoft.com/t5/microsoft-defender-for-endpoint/prevent-compromised-unmanaged-devices-from-moving-laterally-in/ba-p/3482134

Mitigate identity threats

Tuesday, October 25, 2022 10:44 AM

What is Azure Active Directory Identity Protection? - Microsoft Entra | Microsoft Learn

Identify and remediate security risks related to Azure AD Identity Protection events
Risk policies - Azure Active Directory Identity Protection - Microsoft Entra | Microsoft Learn
Investigate risk Azure Active Directory Identity Protection - Microsoft Entra | Microsoft Learn
Remediate risks and unblock users in Azure AD Identity Protection - Microsoft Entra | Microsoft Learn

• Identify and remediate security risks related to conditional access events
What is Conditional Access in Azure Active Directory? - Microsoft Entra | Microsoft Learn
Common Conditional Access policies - Azure Active Directory - Microsoft Entra | Microsoft Learn

• Identify and remediate security risks related to Azure Active Directory events

• Identify and remediate security risks related to Active Directory Domain Services using Microsoft Defender for Identity
What is Microsoft Defender for Identity? | Microsoft Learn

Manage extended detection and response (XDR) in Microsoft 365 Defender

Tuesday, October 25, 2022 10:44 AM

Manage incidents across Microsoft 365 Defender products
What is Microsoft 365 Defender? | Microsoft Learn

- Manage investigation and remediation actions in the Action Center
Investigate and respond with Microsoft 365 Defender | Microsoft Learn
Investigate incidents in Microsoft 365 Defender | Microsoft Learn

- Perform threat hunting
Overview - Advanced hunting | Microsoft Learn

- Identify and remediate security risks using Microsoft Secure Score
Microsoft Secure Score | Microsoft Learn

- Analyze threat analytics
Threat analytics in Microsoft 365 Defender | Microsoft Learn

- Configure and manage custom detections and alerts
Create and manage custom detection rules in Microsoft 365 Defender | Microsoft Learn

Guided Demos

Wednesday, October 26, 2022 11:52 AM

Mitigate threats using Microsoft Defender for Endpoint

Video: Microsoft Defender for Endpoint – Advanced hunting

https://www.microsoft.com/en-us/videoplayer/embed/RE4bGqo

Video: Incident Investigation

https://www.microsoft.com/en-us/videoplayer/embed/RE4qLUV?rel=0&postJsllMsg=true

Microsoft Defender for Endpoint – Onboarding clients

https://www.microsoft.com/en-us/videoplayer/embed/RE4bGqr?rel=0&postJsllMsg=true

Role-based access control – Microsoft Defender for Endpoint

https://www.microsoft.com/en-us/videoplayer/embed/RE4bJ2a?rel=0&postJsllMsg=true

Attack surface reduction – Microsoft Defender for Endpoint

https://www.microsoft.com/en-us/videoplayer/embed/RE4woug?postJsllMsg=true

Microsoft Defender for Endpoint: EDR in block mode

https://www.microsoft.com/en-us/videoplayer/embed/RE4HjW2?rel=0&postJsllMsg=true

Assess and Onboard Unmanaged Devices

https://www.microsoft.com/en-us/videoplayer/embed/RE4RwQz?postJsllMsg=true

Discover Devices

https://www.youtube.com/watch?v=TCDxICrZQa8

Microsoft Defender for Endpoint: Live response

https://www.microsoft.com/en-us/videoplayer/embed/RE4qLUW?rel=0&postJsllMsg=true

Microsoft Defender for Endpoint: Deep analysis

https://www.microsoft.com/en-us/videoplayer/embed/RE4aAYy?rel=0&postJsllMsg=true

Microsoft Defender for Endpoint: Conditional access

https://www.microsoft.com/en-us/videoplayer/embed/RE4byD1?rel=0&postJsllMsg=true

Microsoft Defender for Endpoint: Unified IoCs

https://www.microsoft.com/en-us/videoplayer/embed/RE4qLVw?rel=0&postJsllMsg=true

Video: Threat and vulnerability management: discovery & remediation

https://www.microsoft.com/videoplayer/embed/RE4qLVs?rel=0

Interactive Guide: Threat and Vulnerability Management

https://aka.ms/MSDE_TVM_IG

Microsoft Defender for Cloud Apps

https://www.microsoft.com/en-us/videoplayer/embed/RE4CMYG?postJsllMsg=true

Purview Insider Risks
https://compliance.microsoft.com/insiderriskmgmt?viewid=overview

Implement and maintain cloud security posture management and workload protection

Tuesday, October 25, 2022 10:45 AM

What is Microsoft Defender for Cloud? - Microsoft Defender for Cloud | Microsoft Learn

Plan and configure Microsoft Defender for Cloud settings, including selecting target subscriptions and workspaces
Organize subscriptions into management groups and assign roles to users for Microsoft Defender for Cloud | Microsoft Learn
Grant and request tenant-wide permissions in Microsoft Defender for Cloud | Microsoft Learn
Onboard a management group to Microsoft Defender for Cloud | Microsoft Learn

Defender for Cloud Planning and Operations Guide | Microsoft Learn
Access & application controls tutorial - Microsoft Defender for Cloud | Microsoft Learn

• Configure Microsoft Defender for Cloud roles

• Assess and recommend cloud workload protection
Security alerts and incidents in Microsoft Defender for Cloud | Microsoft Learn
Agentless scanning of cloud machines using Microsoft Defender for Cloud | Microsoft Learn

• Identify and remediate security risks using the Microsoft Defender for Cloud Secure Score
Security posture for Microsoft Defender for Cloud | Microsoft Learn

• Manage policies for regulatory compliance
Understanding security policies, initiatives, and recommendations in Microsoft Defender for Cloud | Microsoft Learn

• Review and remediate security recommendations
Manage security alerts in Microsoft Defender for Cloud | Microsoft Learn

Permissions in Microsoft Defender for Cloud | Microsoft Learn

https://learn.microsoft.com/en-us/microsoft-365/security/defender-endpoint/data-storage-privacy?view=o365-worldwide#at-service-onboarding

https://learn.microsoft.com/en-us/partner-center/gdap-introduction

https://learn.microsoft.com/en-us/azure/active-directory/privileged-identity-management/pim-configure

https://techcommunity.microsoft.com/t5/itops-talk-blog/what-s-the-difference-between-azure-roles-and-azure-ad-roles/ba-p/2363647

ASR https://learn.microsoft.com/en-us/microsoft-365/security/defender-endpoint/attack-surface-reduction?view=o365-worldwide

https://learn.microsoft.com/en-us/mem/intune/protect/conditional-access-intune-common-ways-use

Important changes coming to Microsoft Defender for Cloud | Microsoft Learn

What is Microsoft Intune | Microsoft Learn

Plan and implement the use of data connectors for ingestion of data sources in Microsoft Defender for Cloud

Tuesday, October 25, 2022 10:45 AM

Identify data sources to be ingested for Microsoft Defender for Cloud

Overview of Microsoft Defender for Servers | Microsoft Learn

Container security with Microsoft Defender for Cloud | Microsoft Learn

Enable database protection for your subscription | Microsoft Learn

Microsoft Defender for App Service - the benefits and features | Microsoft Learn

Microsoft Defender for Storage - the benefits and features - Microsoft Defender for Cloud | Microsoft Learn

Microsoft Defender for Key Vault - the benefits and features | Microsoft Learn

Microsoft Defender for Resource Manager - the benefits and features | Microsoft Learn

Microsoft Defender for DNS - the benefits and features | Microsoft Learn

Microsoft Defender for DevOps - the benefits and features | Microsoft Learn

- Configure automated onboarding for Azure resources

- Connect multi-cloud and on-premises resources

Connect your AWS account to Microsoft Defender for Cloud | Microsoft Learn

Connect your non-Azure machines to Microsoft Defender for Cloud | Microsoft Learn

Quickstart: Connect your GitHub repositories to Microsoft Defender for Cloud | Microsoft Learn

Connect your GCP project to Microsoft Defender for Cloud | Microsoft Learn

Quickstart: Connect your Azure DevOps repositories to Microsoft Defender for Cloud | Microsoft Learn

- Configure data collections

Overview of the extensions that collect data from your workloads | Microsoft Learn

How to evaluate Azure Arc-enabled servers with an Azure VM - Azure Arc | Microsoft Learn

https://learn.microsoft.com/en-us/training/modules/build-overall-security-strategy-architecture/3-develop-integration-points-architecture

One pager listing agent required for specific workload in D4C

https://learn.microsoft.com/en-us/azure/defender-for-cloud/plan-multicloud-security-determine-multicloud-dependencies#what-agent-do-i-need

https://learn.microsoft.com/en-us/azure/defender-for-cloud/exempt-resource#find-recommendations-with-exemptions-using-azure-resource-graph

Configure and respond to alerts and incidents in Microsoft Defender for Cloud

Tuesday, October 25, 2022 10:46 AM

Validate alert configuration
Alert validation in Microsoft Defender for Cloud | Microsoft Learn

- Set up email notifications
Configure email notifications for Microsoft Defender for Cloud alerts | Microsoft Learn

- Create and manage alert suppression rules
Using alerts suppression rules to suppress false positives or other unwanted security alerts in Microsoft Defender for Cloud | Microsoft Learn

- Design and configure workflow automation in Microsoft Defender for Cloud
Workflow automation in Microsoft Defender for Cloud | Microsoft Learn

- Remediate alerts and incidents by using Microsoft Defender for Cloud recommendations

- Manage security alerts and incidents
Stream your alerts from Microsoft Defender for Cloud to Security Information and Event Management (SIEM) systems and other monitoring solutions | Microsoft Learn

- Analyze Microsoft Defender for Cloud threat intelligence reports
Microsoft Defender for Cloud threat intelligence report | Microsoft Learn

- Manage user data discovered during an investigation

Guided Demo

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Mitigate threats using Microsoft Defender for Cloud

Demo link: https://mslearn.cloudguides.com/guides/Protect%20your%20hybrid%20cloud%20with%20Azure%20Security%20Center

https://www.microsoft.com/videoplayer/embed/RE4bOeh?rel=0

Design and configure a Microsoft Sentinel workspace

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Best practices for Microsoft Sentinel | Microsoft Learn

Learning with the Microsoft Sentinel Training Lab - Microsoft Community Hub
Roles and permissions in Microsoft Sentinel | Microsoft Learn

Plan a Microsoft Sentinel workspace
Design your Microsoft Sentinel workspace architecture | Microsoft Learn
Manage access to Microsoft Sentinel data by resource | Microsoft Learn
Hybrid security monitoring with Microsoft Sentinel - Azure Architecture Center | Microsoft Learn
Manage Microsoft Sentinel workspaces at scale - Azure Lighthouse | Microsoft Learn

• Configure Microsoft Sentinel roles
Quickstart: Onboard in Microsoft Sentinel | Microsoft Learn
https://learn.microsoft.com/en-us/azure/sentinel/roles

• Design and configure Microsoft Sentinel data storage
Microsoft Sentinel data connectors | Microsoft Learn
Use entities to classify and analyze data in Microsoft Sentinel | Microsoft Learn

• Implement and use Content hub, repositories, and community resources
Microsoft Sentinel content hub catalog | Microsoft Learn
Manage custom content with repository connections - Microsoft Sentinel | Microsoft Learn

Become a Microsoft Sentinel Ninja Become a Microsoft Sentinel Ninja: The complete level 400 training - Microsoft Community Hub

Azure Sentinel Notebook on GitHub includes tutorials and examples
Azure/Azure-Sentinel-Notebooks: Interactive Azure Sentinel Notebooks provides security insights and actions to investigate anomalies and hunt for malicious behaviors. (github.com)

Pricing: Plan costs, understand Microsoft Sentinel pricing and billing | Microsoft Learn

To archive a Log Analytics workspace in Microsoft Sentinel, you can use the Archive tier in Azure Monitor Logs. This tier allows you to retain data for up to seven years in a low-cost archived state. You can also use Azure Data Explorer for long-term retention of Microsoft Sentinel logs. Additionally, you can set fine-grained retention periods by using table-level retention settings.

https://learn.microsoft.com/en-us/azure/sentinel/configure-data-retention
https://learn.microsoft.com/en-us/azure/azure-monitor/logs/move-workspace-region
https://learn.microsoft.com/en-us/azure/azure-monitor/logs/move-workspace

Migrate to the Azure Monitor agent (AMA) from the Log Analytics agent (MMA/OMS) for Microsoft Sentinel | Microsoft Learn

Monitor the health of your Microsoft Sentinel data connectors | Microsoft Learn
If you reconnect a Microsoft Sentinel data connector, it may cause duplicated data.To avoid duplicated data, you can disconnect the connector before reconnecting it. To disconnect the connector, you can use the Azure portal or the DISCONNECT API.

https://learn.microsoft.com/en-us/azure/architecture/example-scenario/data/sentinel-threat-intelligence

https://learn.microsoft.com/en-us/azure/sentinel/billing?tabs=commitment-tier

https://learn.microsoft.com/en-us/azure/azure-monitor/logs/data-retention-archive?tabs=portal-1%2Cportal-2

https://learn.microsoft.com/en-us/azure/sentinel/basic-logs-use-cases

https://azure.microsoft.com/en-us/pricing/details/microsoft-sentinel/

https://learn.microsoft.com/en-us/azure/sentinel/extend-sentinel-across-workspaces-tenants

Event IDs Windows security event sets that can be sent to Microsoft Sentinel | Microsoft Learn
https://learn.microsoft.com/en-us/azure/sentinel/partner-integrations

Sentinel and CLI https://learn.microsoft.com/en-us/cli/azure/sentinel?view=azure-cli-latest

Lockheed Martin https://www.lockheedmartin.com/en-us/capabilities/cyber/cyber-kill-chain.html

Extend Microsoft Sentinel across workspaces and tenants | Microsoft Learn

AZ-305: Design identity, governance, and monitor solutions - Training | Microsoft Learn

Comparing AWS and Azure regions and zones - Azure Architecture Center | Microsoft Learn

Plan and implement the use of data connectors for ingestion of data sources in Microsoft Sentinel

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Identify data sources to be ingested for Microsoft Sentinel
Microsoft Sentinel data connectors | Microsoft Learn

• Identify the prerequisites for a Microsoft Sentinel data connector
Find your Microsoft Sentinel data connector | Microsoft Learn

• Configure and use Microsoft Sentinel data connectors
Connect Microsoft Sentinel to Azure, Windows, and Microsoft services | Microsoft Learn

• Configure Microsoft Sentinel data connectors by using Azure Policy

• Configure Microsoft Sentinel connectors for Microsoft 365 Defender and Microsoft Defender for Cloud
Microsoft 365 Defender integration with Microsoft Sentinel | Microsoft Learn
Microsoft Sentinel integration with Defender for Cloud Apps | Microsoft Learn

• Design and configure Syslog and CEF event collections
Troubleshoot a connection between Microsoft Sentinel and a CEF or Syslog data connector | Microsoft Learn
Get CEF-formatted logs from your device or appliance into Microsoft Sentinel | Microsoft Learn
Connect Syslog data to Microsoft Sentinel | Microsoft Learn

• Design and configure Windows Security event collections
Find your Microsoft Sentinel data connector | Microsoft Learn

• Configure custom threat intelligence connectors
Understand threat intelligence in Microsoft Sentinel | Microsoft Learn

LightHouse
https://azure.microsoft.com/en-us/products/azure-lighthouse/#overview
https://learn.microsoft.com/en-us/azure/lighthouse/overview

Custom data ingestion and transformation in Microsoft Sentinel | Microsoft Learn

https://learn.microsoft.com/en-us/azure/sentinel/connect-logstash-data-connection-rules

https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/ready/landing-zone/

Ingest from Blob Storage
To ingest data from Azure Blob Storage into Microsoft Sentinel, you can use the Azure Blob Storage data connector. The Azure Blob Storage data connector allows you to stream and filter events from Azure Blob Storage logs.

Manage Microsoft Sentinel analytics rules

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Design and configure analytics rules
Detect threats with built-in analytics rules in Microsoft Sentinel | Microsoft Learn

- Activate Microsoft security analytics rules

- Configure built-in scheduled queries

- Configure custom scheduled queries
Create custom analytics rules to detect threats with Microsoft Sentinel | Microsoft Learn

- Define incident creation logic
Create your own incidents manually in Microsoft Sentinel | Microsoft Learn

- Manage and use watchlists
What is a watchlist - Microsoft Sentinel | Microsoft Learn
Build queries or rules with watchlists - Microsoft Sentinel | Microsoft Learn
Create watchlists - Microsoft Sentinel | Microsoft Learn

- Manage and use threat indicators
Work with threat indicators in Microsoft Sentinel | Microsoft Learn

More info on Content hub solutions and the GitHub repo Out-of-the-box (OOTB) content centralization changes - Microsoft Sentinel | Microsoft Learn

To build and publish Sentinel Solutions see Azure-Sentinel/Solutions at master · Azure/Azure-Sentinel (github.com)

Use entity behavior analytics to detect advanced threats | Microsoft Learn

Perform data classification and normalization

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Classify and analyze data by using entities
Microsoft Sentinel entity types reference | Microsoft Learn
azure-docs/entities.md at main · MicrosoftDocs/azure-docs (github.com)

- Create custom logs in Azure Log Analytics to store custom data
Collect data in custom log formats to Microsoft Sentinel | Microsoft Learn
Kusto: Custom Logs in Log Analytics - SquaredUp

- Query Microsoft Sentinel data by using Advanced SIEM Information Model (ASIM) parsers
Advanced Security Information Model (ASIM) schemas | Microsoft Learn
Normalization and the Advanced Security Information Model (ASIM) | Microsoft Learn

- Develop and manage ASIM parsers
Microsoft Sentinel Advanced Security Information Model (ASIM) parsers overview | Microsoft Learn

https://learn.microsoft.com/en-us/azure/azure-monitor/logs/data-ingestion-time

Microsoft Sentinel migration: Select a target Azure platform to host exported data | Microsoft Learn

Configure Security Orchestration, Automation, and Response (SOAR) in Microsoft Sentinel

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Introduction to automation in Microsoft Sentinel | Microsoft Learn

Configure automation rules
Automate threat response in Microsoft Sentinel with automation rules | Microsoft Learn

• Create and configure Microsoft Sentinel playbooks
Automate threat response with playbooks in Microsoft Sentinel | Microsoft Learn

• Configure alerts and incidents to trigger automation
Automate threat response in Microsoft Sentinel with automation rules | Microsoft Learn

• Use automation to remediate threats

• Use automation to manage incidents

Manage Microsoft Sentinel incidents

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Triage incidents in Microsoft Sentinel
- Investigate incidents in Microsoft Sentinel

Investigate incidents with Microsoft Sentinel | Microsoft Learn

- Respond to incidents in Microsoft Sentinel

Relate alerts to incidents in Microsoft Sentinel | Microsoft Learn

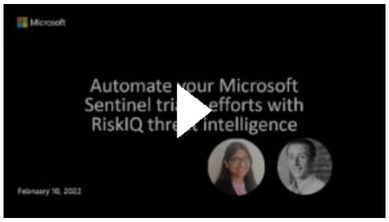
- Investigate multi-workspace incidents

Work with Microsoft Sentinel incidents in many workspaces at once | Microsoft Learn
Extend Microsoft Sentinel across workspaces and tenants | Microsoft Learn

- Identify advanced threats with Entity Behavior Analytics

Use entity behavior analytics to detect advanced threats | Microsoft Learn
Identify advanced threats with User and Entity Behavior Analytics (UEBA) in Microsoft Sentinel | Microsoft Learn
Microsoft Sentinel UEBA reference | Microsoft Learn

Automate Your Microsoft Sentinel Triage Efforts with RiskIQ Threat Intelligence


Microsoft
Automate your Microsoft Sentinel triage efforts with RiskIQ threat intelligence
February 10, 2022

Use Advanced Security Information Model (ASIM) parsers | Microsoft Learn

Work with threat indicators
https://learn.microsoft.com/en-us/azure/sentinel/work-with-threat-indicators

Closing Incidents and Alerts
https://techcommunity.microsoft.com/t5/microsoft-defender-for-cloud/closing-an-incident-in-azure-sentinel-and-dismissing-an-alert-in/ba-p/1180208#:~:text=When%20I%20use%20Azure%20Security,the%20ASC%20Alert%20remains%20active.

Detect threats with built-in analytics rules in Microsoft Sentinel | Microsoft Learn

Deploy and monitor Azure Key Vault honeytokens with Microsoft Sentinel | Microsoft Learn

Overview - Azure Logic Apps | Microsoft Learn

Learning Path for Azure Logic Apps Build automated workflows to integrate data and apps with Azure Logic Apps - Training | Microsoft Learn

Power Automate vs Logic Apps | Microsoft Learn

Playbooks

Microsoft Sentinel - Connectors | Microsoft Learn
https://github.com/Azure/Azure-Sentinel/tree/master/Playbooks

Use Microsoft Sentinel workbooks to analyze and interpret data

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Activate and customize Microsoft Sentinel workbook templates
Commonly used Microsoft Sentinel workbooks | Microsoft Learn

Azure Workbooks - Save as PDF (Print) - Microsoft Community Hub

- Create custom workbooks

Configure advanced visualizations

- View and analyze Microsoft Sentinel data using workbooks

Visualize your data using Azure Monitor Workbooks in Microsoft Sentinel | Microsoft Learn
Visualize collected data | Microsoft Learn

- Track incident metrics using the security operations efficiency workbook

Manage your SOC better with incident metrics in Microsoft Sentinel | Microsoft Learn

Azure-Sentinel/Workbooks at master · Azure/Azure-Sentinel (github.com)

Hunt for threats using Microsoft Sentinel

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Hunting capabilities in Microsoft Sentinel | Microsoft Learn

Create custom hunting queries
Hunting capabilities in Microsoft Sentinel | Microsoft Learn

- Run hunting queries manually

- Monitor hunting queries by using Livestream
Manage hunting and livestream queries in Microsoft Sentinel using REST API | Microsoft Learn

- Configure and use MSTICPy in notebooks
Advanced configurations for Jupyter notebooks and MSTICPy in Microsoft Sentinel | Microsoft Learn
Get started with Jupyter notebooks and MSTICPy in Microsoft Sentinel | Microsoft Learn

- Perform hunting by using notebooks
Hunt for security threats with Jupyter notebooks - Microsoft Sentinel | Microsoft Learn

- Track query results with bookmarks

- Use hunting bookmarks for data investigations
Use hunting bookmarks for data investigations in Microsoft Sentinel | Microsoft Learn

- Convert a hunting query to an analytical rule

MSTICPy and Jupyter Notebooks in Azure Sentinel, an update - Microsoft Community Hub
Notebooks with Kqlmagic (Kusto Query Language) in Azure Data Studio - Azure Data Studio | Microsoft Learn
Azure-Sentinel-Notebooks/Sample-Notebooks at 8122bca32387d60a8ee9c058ead9d3ab8f4d61e6 · Azure/Azure-Sentinel-Notebooks (github.com)

RBAC
https://learn.microsoft.com/en-us/azure/sentinel/resource-context-rbac
https://learn.microsoft.com/en-us/azure/sentinel/roles

Azure Custom Roles
https://learn.microsoft.com/en-us/azure/role-based-access-control/custom-roles

Data Collection Rules
https://learn.microsoft.com/en-us/azure/azure-monitor/essentials/data-collection-rule-overview

Azure Sentinel Workbooks
https://github.com/Azure/Azure-Sentinel/tree/master/Workbooks

Data normalization
https://learn.microsoft.com/en-us/azure/sentinel/normalization

Aggregating Insider Risk Management
https://techcommunity.microsoft.com/t5/microsoft-sentinel-blog/aggregating-insider-risk-management-information-via-azure/ba-p/1743211

Identify advanced threats and with UEBA
https://learn.microsoft.com/en-us/azure/sentinel/identify-threats-with-entity-behavior-analytics

Roles and permissions in Microsoft Sentinel | Microsoft Learn

Guided Demos

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Detect and respond to modern attacks with unified SIEM and XDR capabilities

https://aka.ms/AzureSentinel_SOC_InteractiveGuide

Discover Devices

https://www.youtube.com/watch?v=TCDxICrZQa8

Assess and Onboard Unmanaged Devices

https://www.microsoft.com/en-us/videoplayer/embed/RE4RwQz?postJsllMsg=true

Demo creating a DCR rule from the connector