

Managing and Responding to Security Events Using Azure Sentinel

AZURE SENTINEL GETTING STARTED



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Overview



What is Azure Sentinel?

- Core capabilities

Why do we need Azure Sentinel?

Design considerations

- Log analytics workspace
- Permissions

Enabling Azure Sentinel

- Pre-requisites

Target Audience



**Cloud
Architects**



**Security
Analysts**



SecOps Teams



**Azure
Developers**



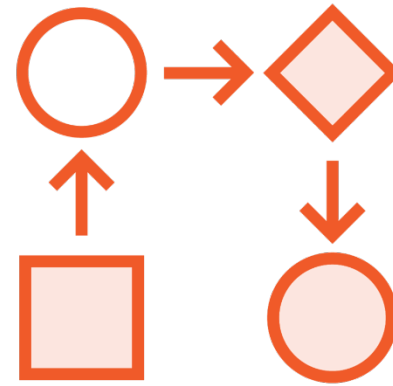
Learners Knowledge



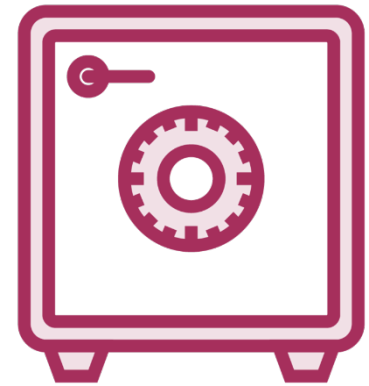
Microsoft Azure



Kusto Query
Language (KQL)



Logic Apps



Cyber security
Concepts



What Is Azure Sentinel?



What is Azure Sentinel?

Azure Sentinel is a next generation Security Information and Event Management (**SIEM**) and Security Orchestration Automation Response (**SOAR**) solution provided by Microsoft.

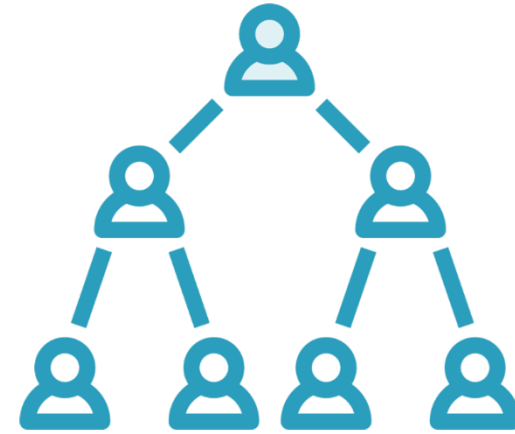


SecOps and SOC



SecOps

A Team focused on running the day-to-day tasks of a Security Operations Center (SOC)



SOC

A Team dedicated to securing The Enterprise.



“A team primarily composed of security analysts organized to detect, analyze, respond to, report on, and prevent cybersecurity incidents.”

Mitre (www.mitre.org)

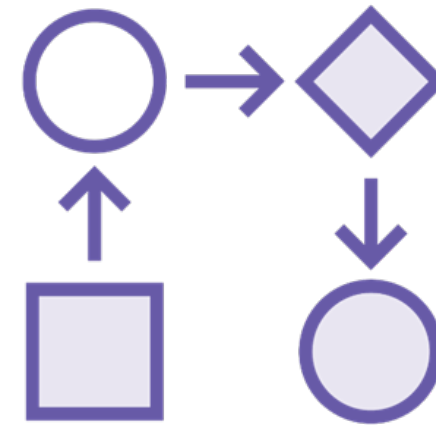


Modern SIEM and SOAR



SIM and SEM

Security Information and Event
Management



SOAR

Security Orchestration,
Automation and Response



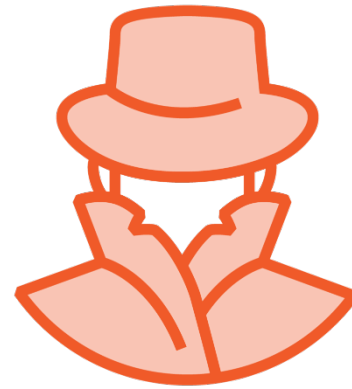
Core Capabilities of Azure Sentinel



Data Collection



**Threat
Detection**



**Threat
Investigation**



Rapid Response

Why Do Companies Need Azure Sentinel?



SecOps and SOC Challenges

Big Data Challenge

Constantly increasing security data

Alert Fatigue and Attrition

49% of Security alerts are never investigated

Staffing Challenge

4.07 M unfilled security jobs

Lack of Tools

Automation, AI/ML, threat hunting and investigation



Benefits of Azure Sentinel



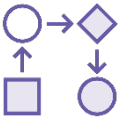
Scales automatically to meet the data storage needs



Direct integration with Microsoft Intelligent Security Graph



Advanced anomaly detections using Microsoft's machine learning



Automation capability for investigating and responding to alerts



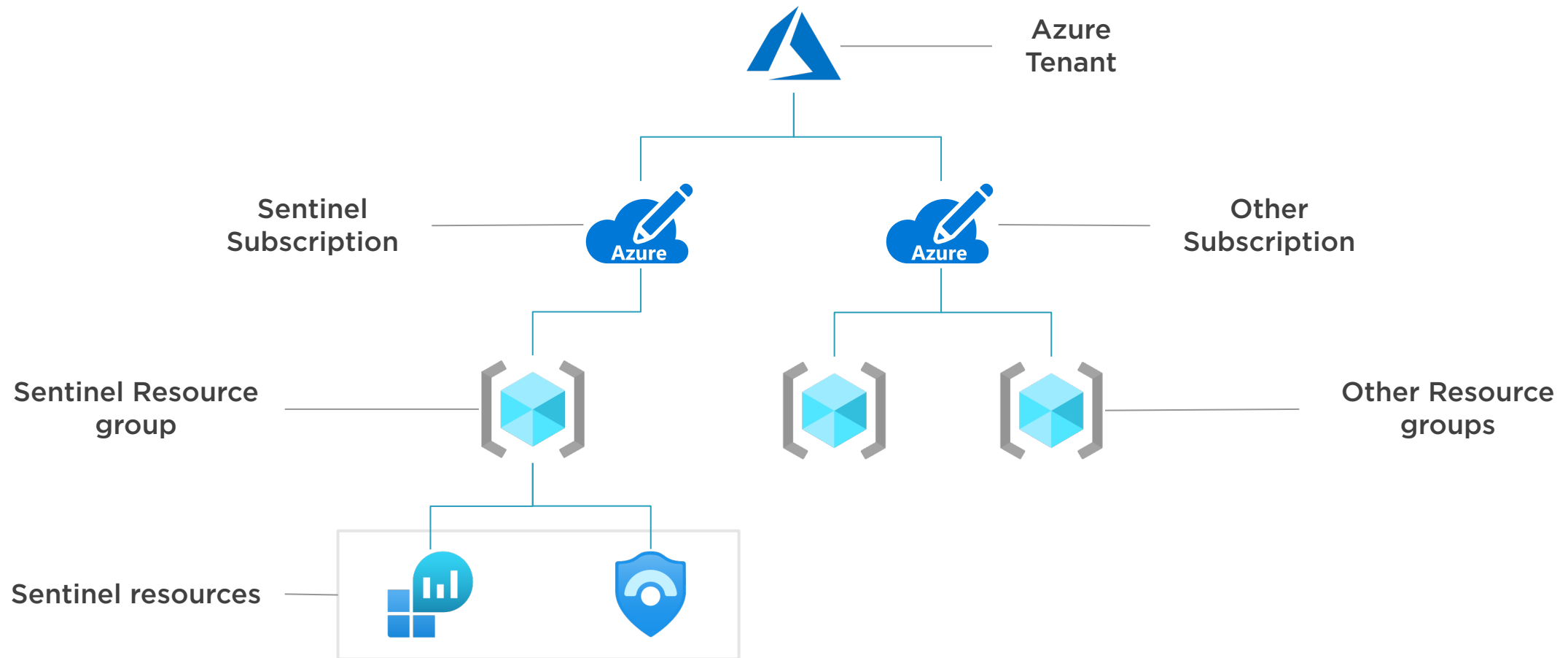
Intuitive dashboards and querying capability



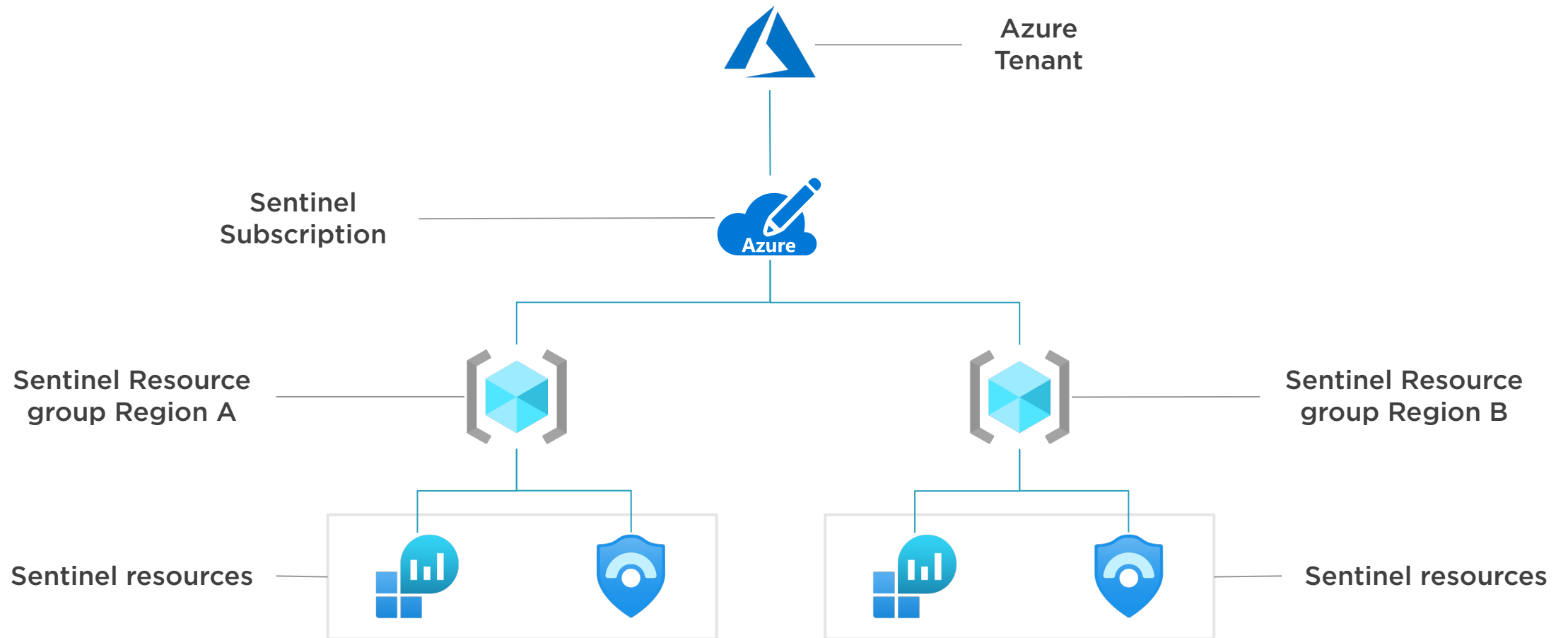
Design Considerations



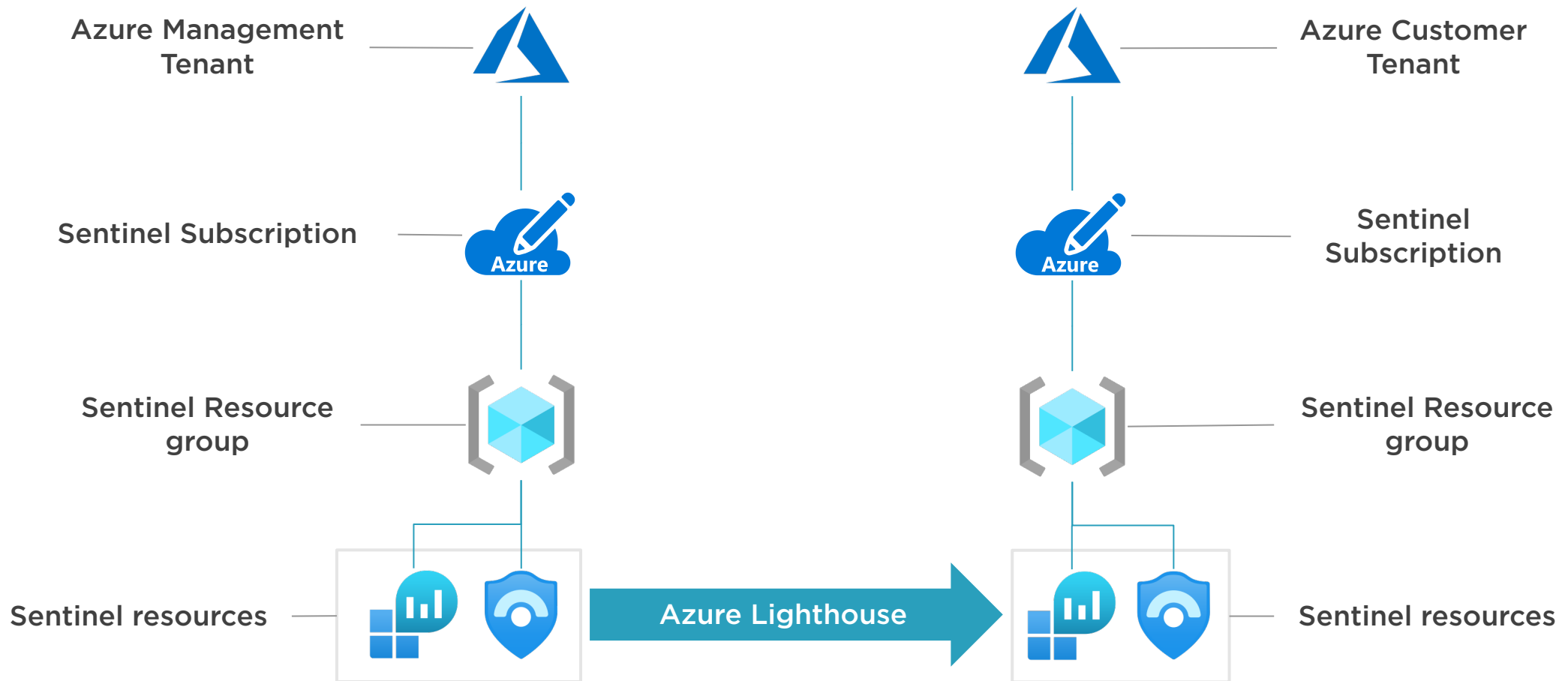
Workspace Design (Single Tenant)



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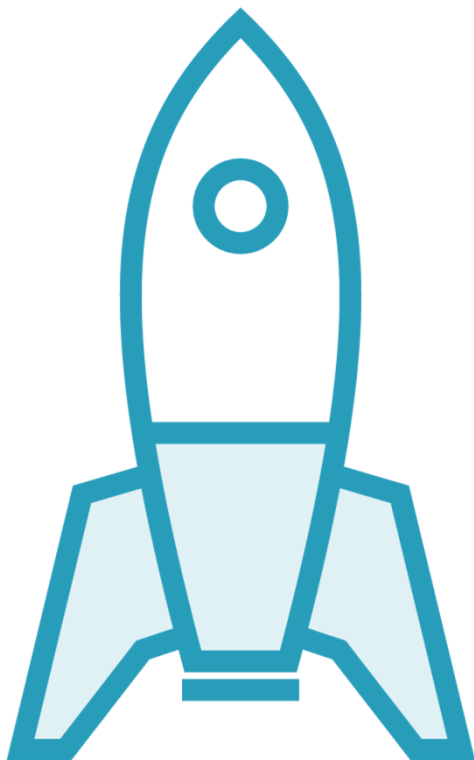
Workspace Design (Multi Tenant)



Getting Our Feet Wet



Pre-requisites to Enable Azure Sentinel



Azure Subscription

Log Analytics workspace

Permissions

- Azure Subscription
 - Contributor
- Resource group or Resource
 - Contributor
 - Reader



Demo



Enabling Azure Sentinel

- Using Azure Portal
- Using Resource Manager templates



Summary



Summary



What and Why of Azure Sentinel

Design considerations

Enabling Azure Sentinel



Up Next:

Getting Data into Azure Sentinel and Using
Workbooks

