AZ-500 Course 3 – Manage Security Operations – updated 2-6-22



COURS

Microsoft Azure Security Technologies (AZ-500) Cert Prep: 3 Manage Security Operations

in LinkedIn Learning · By: Pete Zerger · 2 months ago

Start your preparations for the "Manage security operations" domain of the AZ-500 exam.

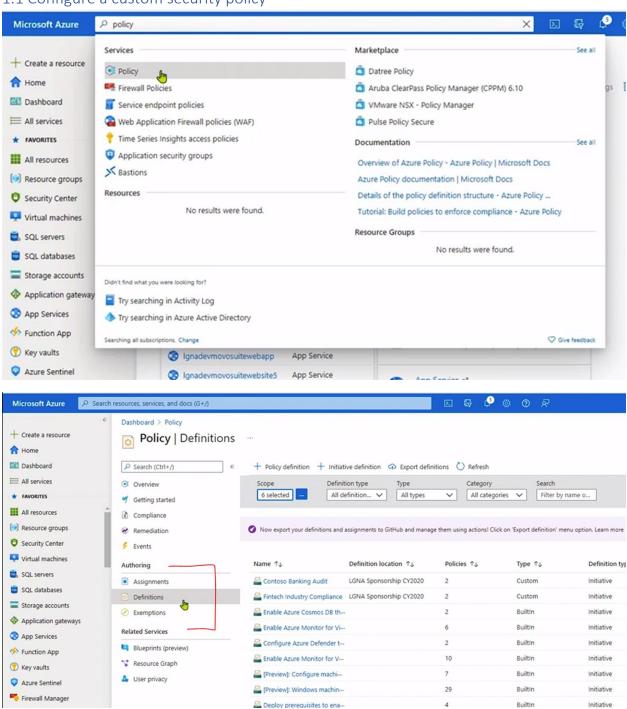
Become an Azure Security Engineer (linkedin.com)

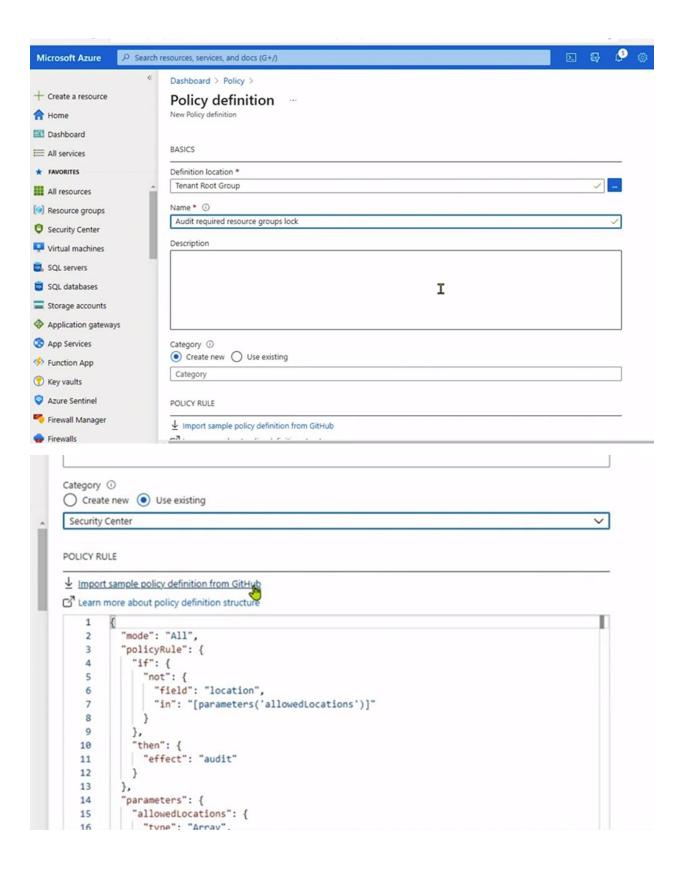
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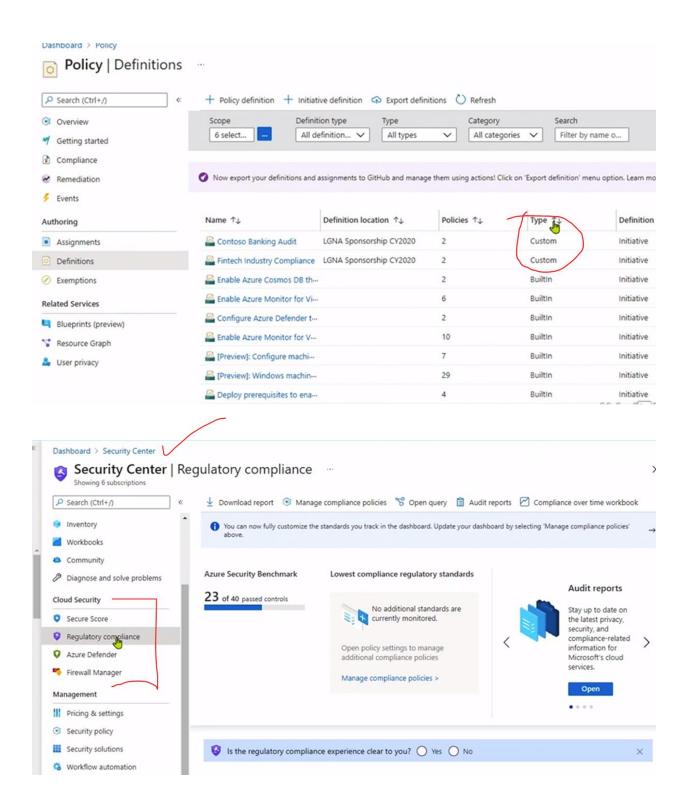
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1. Configure Centralized Policy Management

1.1 Configure a custom security policy



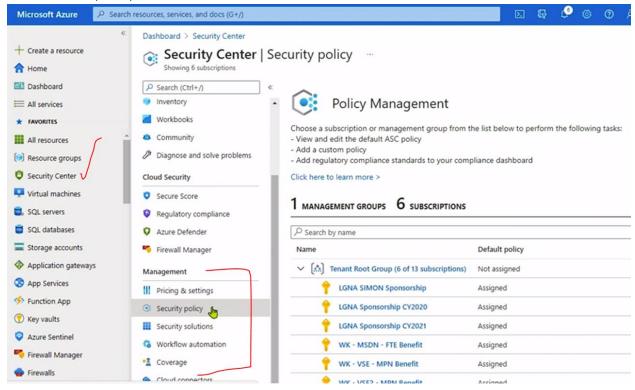


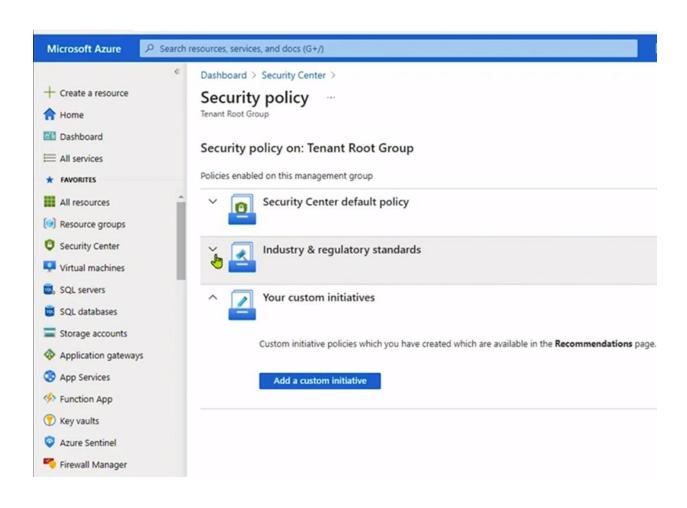


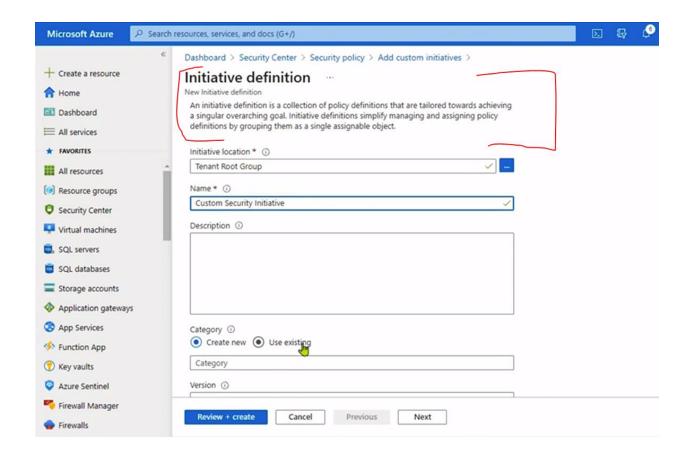


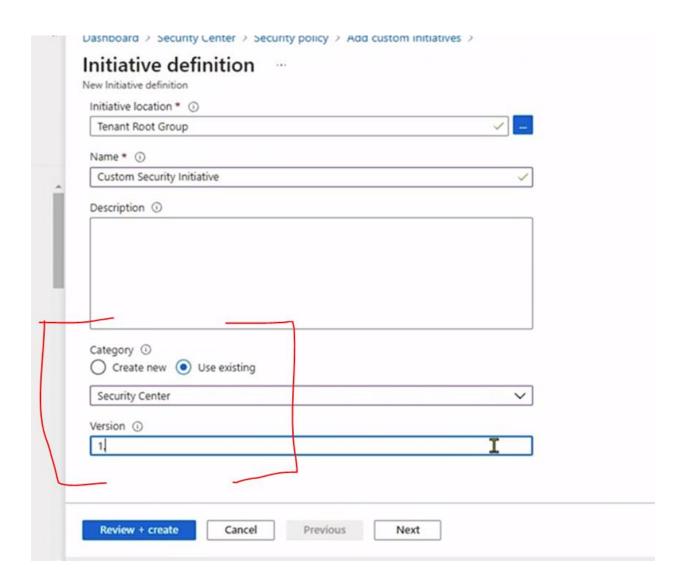
Know the details of policy and initiative creation, but with a security focus.

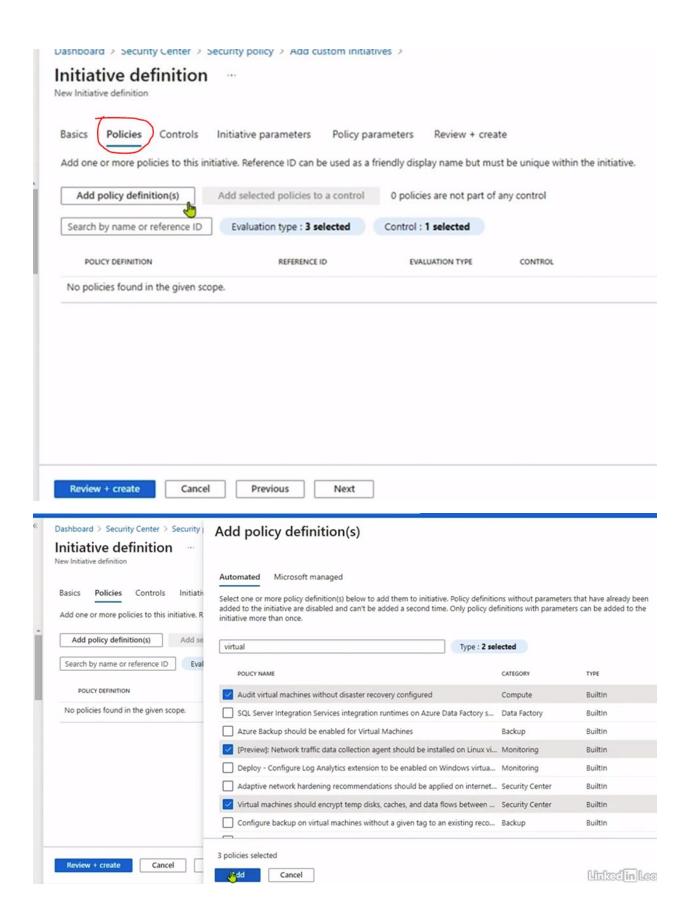
1.2 Create a policy initiative

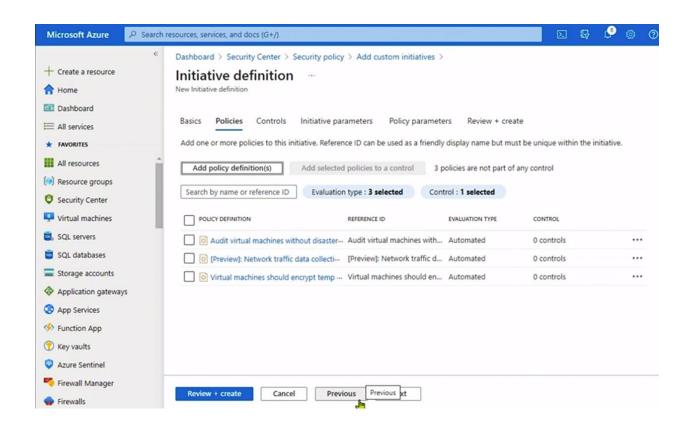


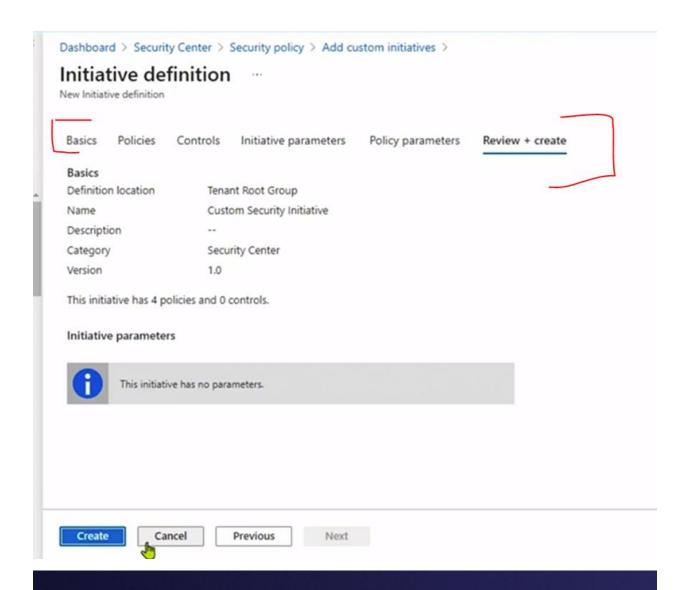














Know the details of policy and initiative creation, but with a security focus.

1.3 Configure security settings and auditing using Azure Policy



Security Policies in ASC

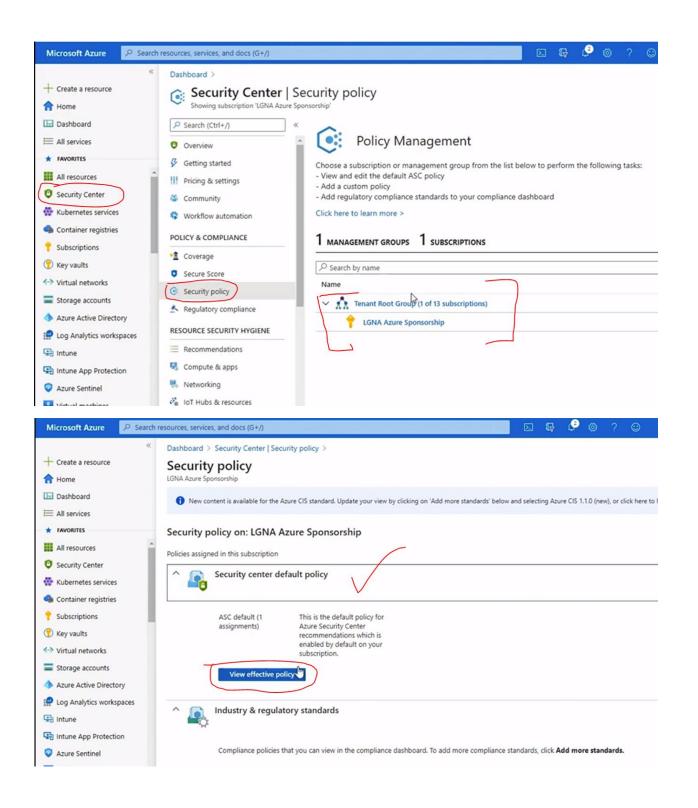
Define desired configuration and ensure compliance with regulatory and organizational standards.

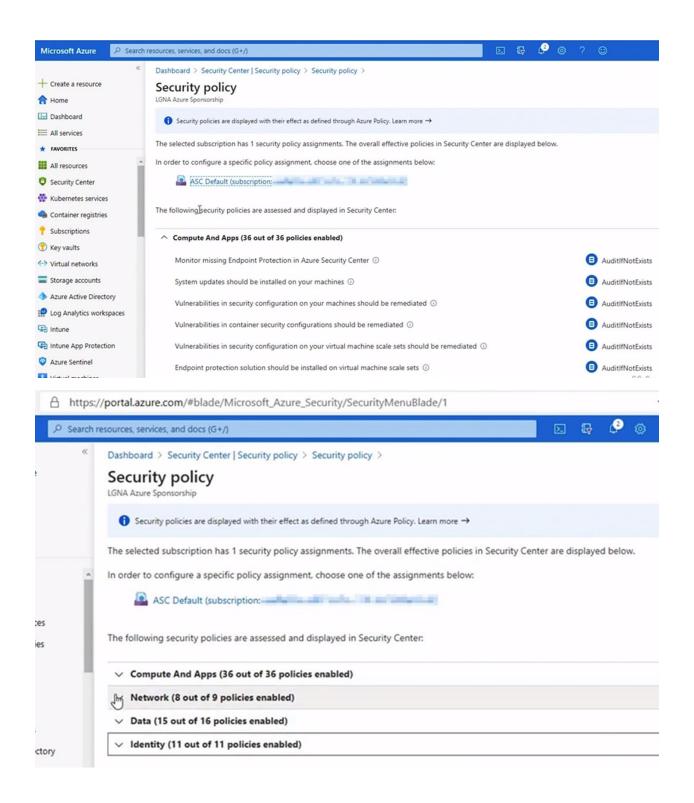


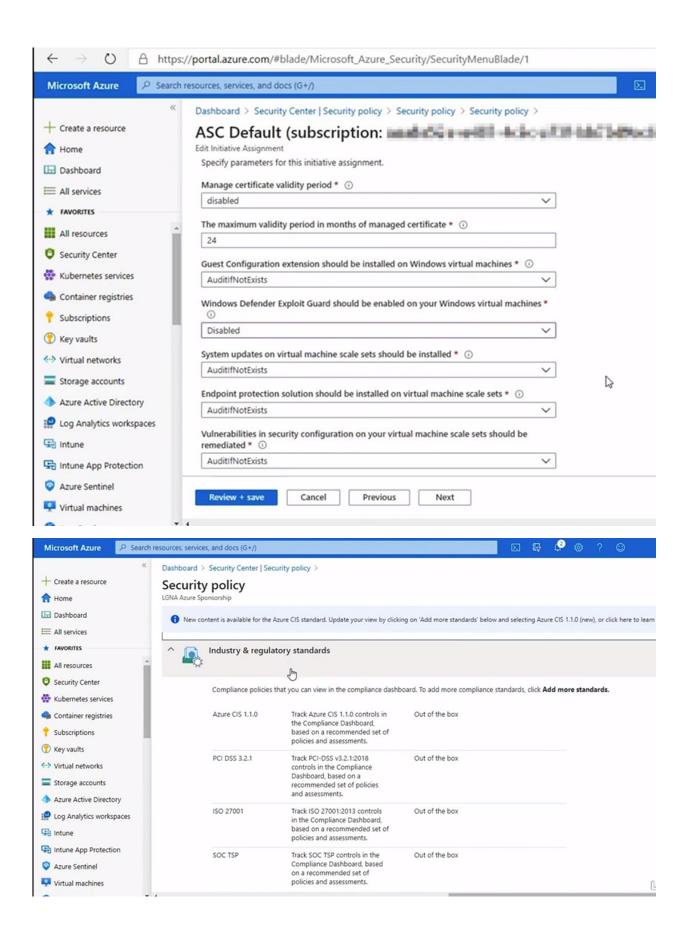
Security Policies in Azure Security Center

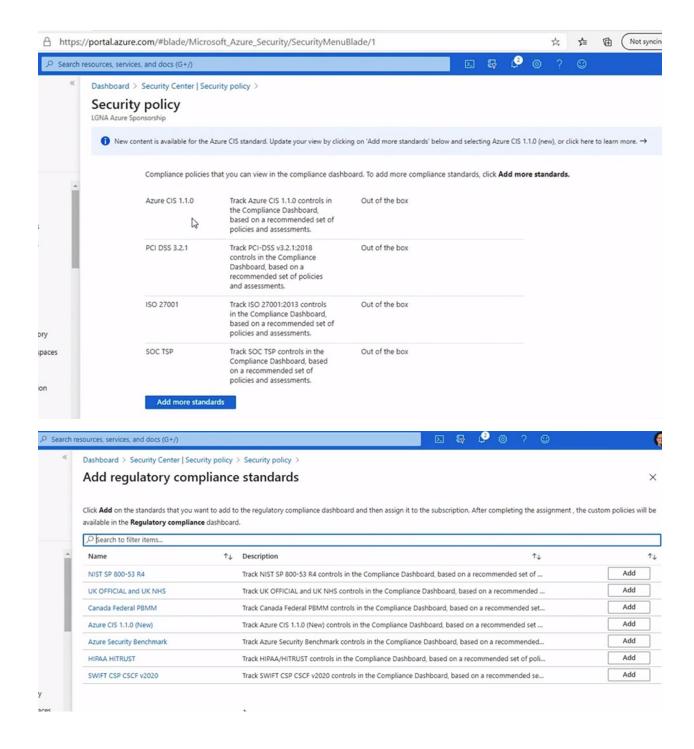
Options in ASC for working with security policies:

- ✓ View and edit the built-in **default** policy
- √ Add your own custom policies
- √ Add regulatory compliance policies











Exam Tip

Know your security policy options in ASC and how to configure them.

1.4 Quiz

Question 1 of 3

Your security dashboard is showing recommendations that are not relevant to your setup. How can you alter this to only show relevant recommendations?

- Use the default settings because they automatically configure themselves based on your business environment
- Configure the resources allocated in the pricing tier to remove the ones that your business does not use.
- Change the parameters of the default policy to disable irrelevant settings. Correct

You can edit the default policy in Azure Security Center to disable policy settings not relevant to your environment.

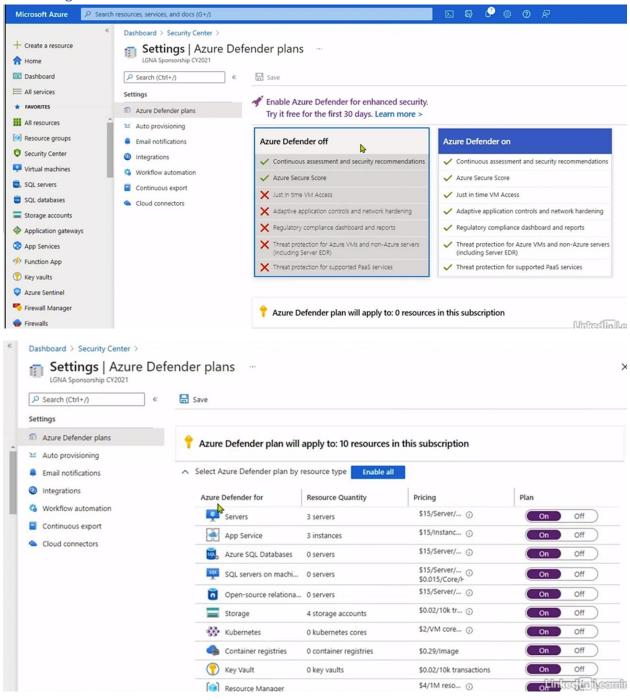
Log in on an account set to the Security Reader role to filter out irrelevant settings.

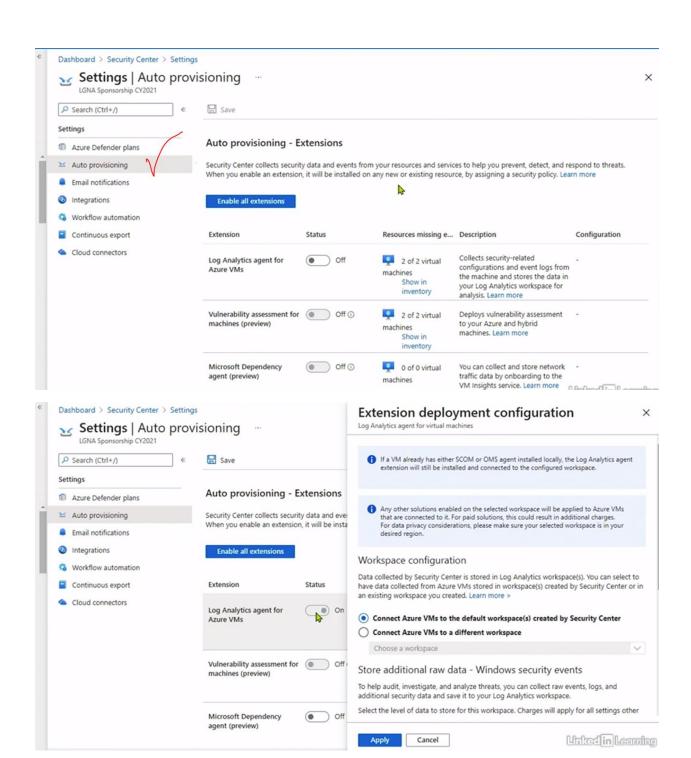
Next question

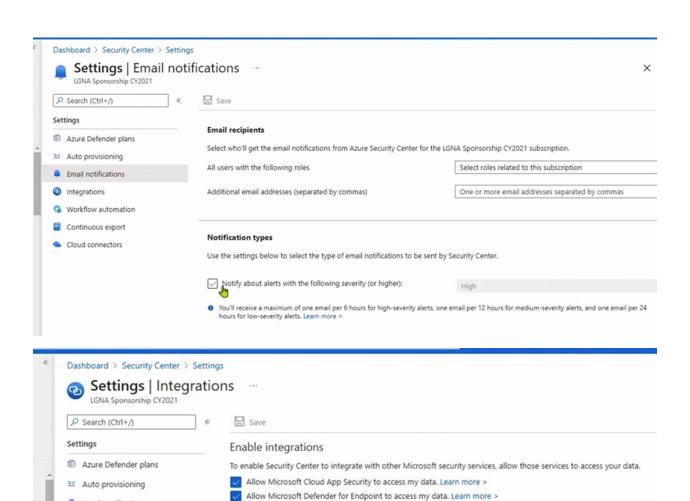
	Resource group
0	Resource
	Subscription
Ø	Management group
	Correct A management group, which can contain multiple subscriptions, is the broadest scope for a policy initiative.
	stion 3 of 3 at can the default security policies do out of the box in the Security Center?
Wha	Remediate configuration issues. Audit configuration settings. Correct
Wha	at can the default security policies do out of the box in the Security Center? Remediate configuration issues. Audit configuration settings.
Wha	Remediate configuration issues. Audit configuration settings. Correct

2. Configure and Manage Threat Protection

2.1 Configure Azure Defender for Servers







CI/CD vulnerability scanning

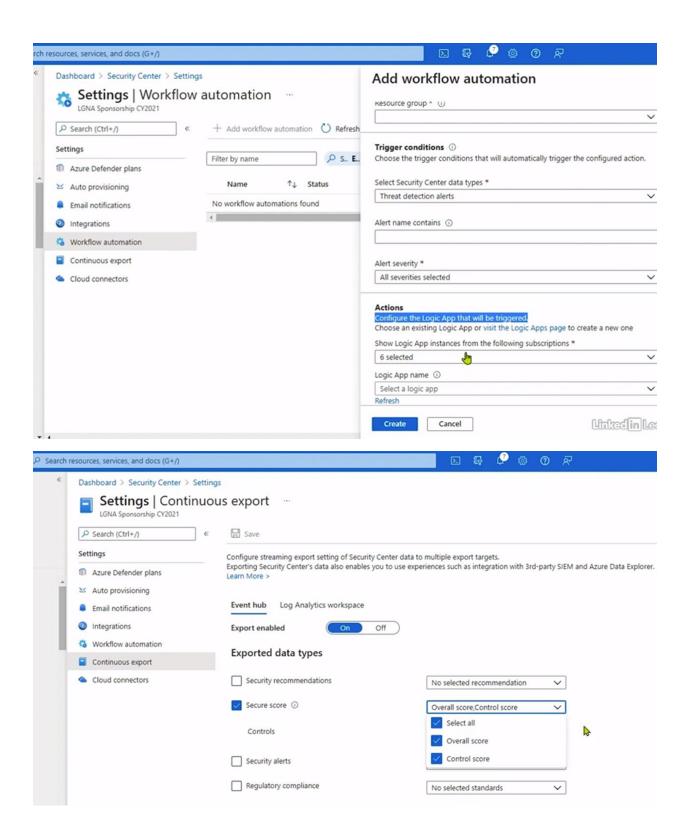
Configure CI/CD integration

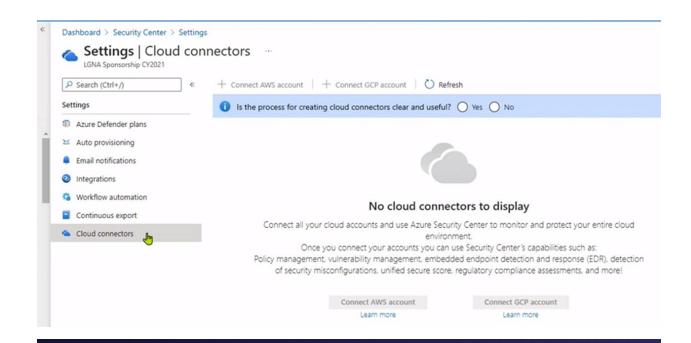
To enable CICD Vulnerability Scanning configure your CICD with Azure Security Center.

Email notificationsIntegrationsWorkflow automation

Continuous export

Cloud connectors







Be familiar with feature enablement, cost implications, and where to find and evaluate the results

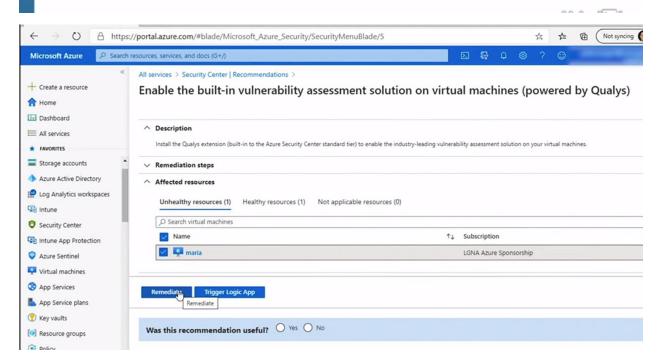
What Is Azure Policy?

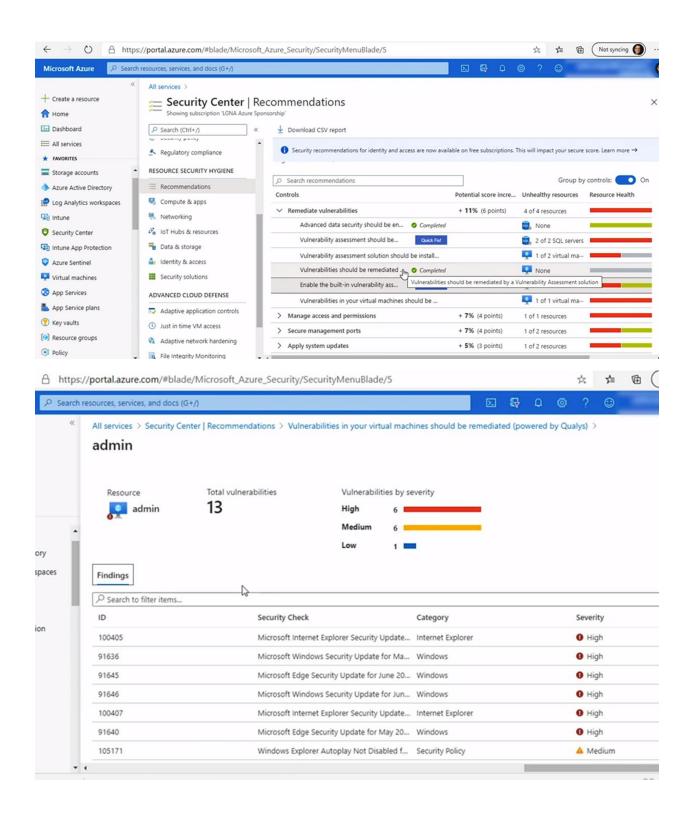
Policies enforce different rules (desired settings) and effects over your resources.

Azure Policy is the service used to create, assign, and manage policies.

Policies can automate desired configuration and block others.

Policies can even bring existing resources into compliance.



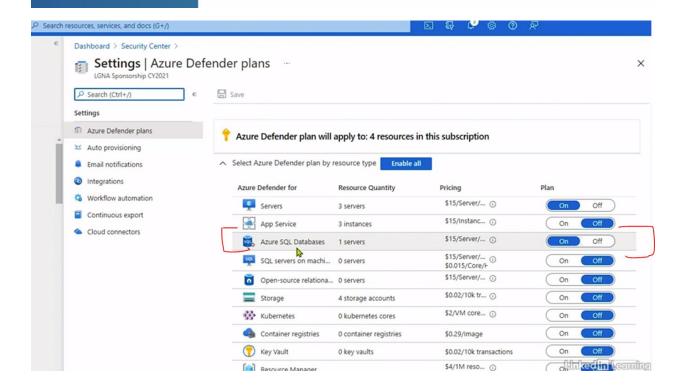


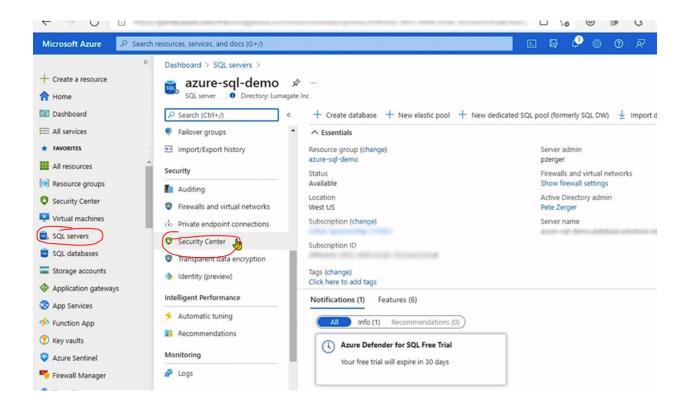
2.3 Configure Azure Defender for SQL

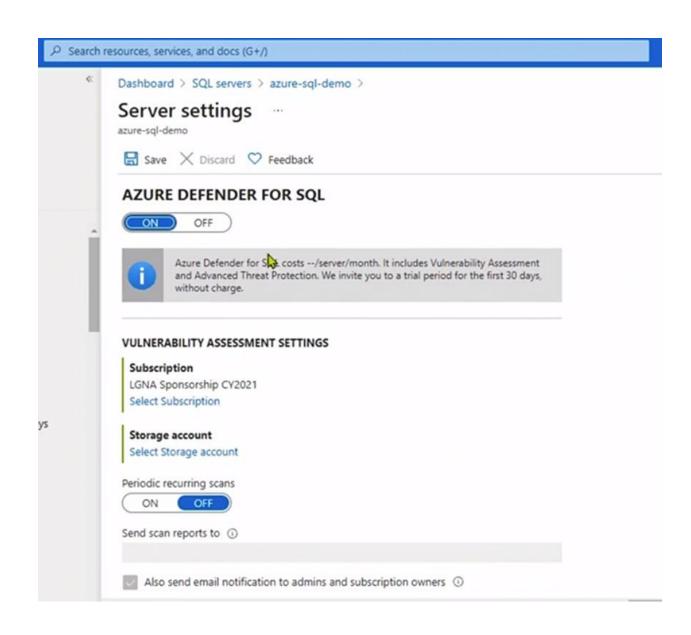


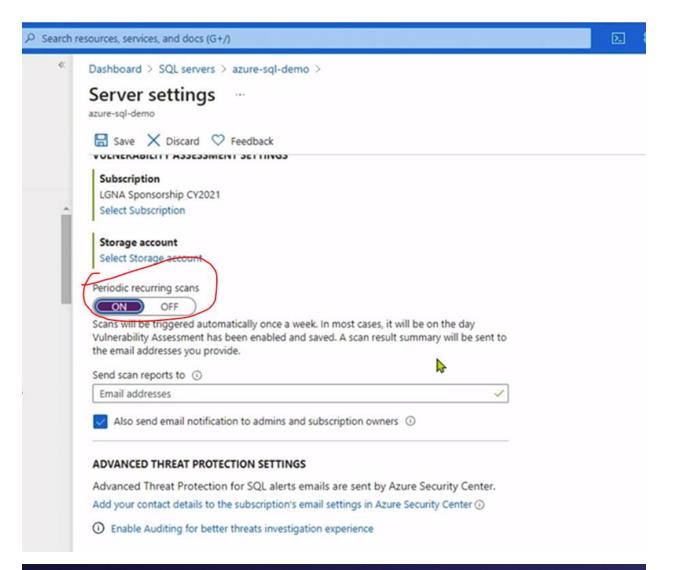
This service can detect anomalous activities like:

- SQL injection attacks
- Access from an unusual location
- Access from unfamiliar principal or application
- Brute force SQL credentials











Know how to configure Azure Defender for SQL and the protections it offers.

2.4 Use the Microsoft Threat Modeling Tool



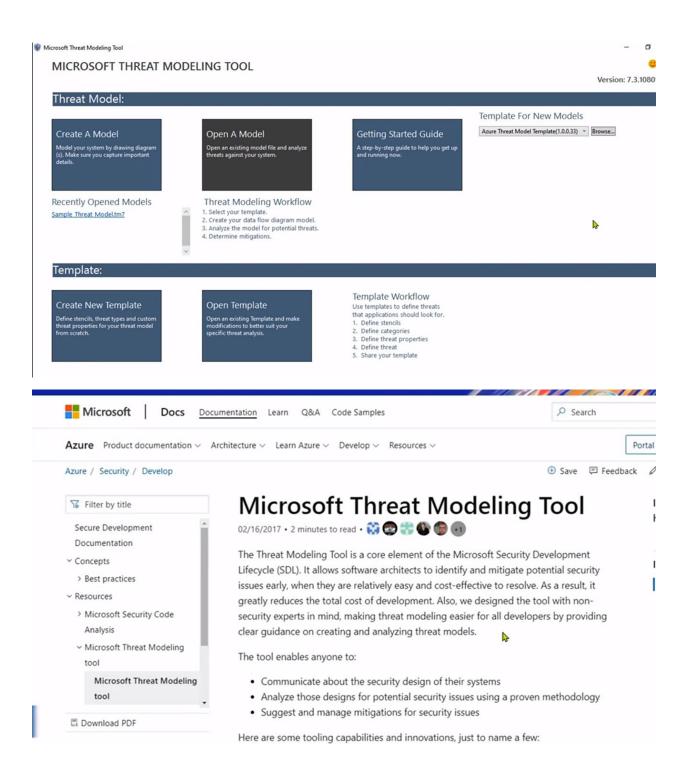
Microsoft Threat Modeling Tool

Allows software architects to identify and mitigate potential security issues early in the SDLC

MTMT value proposition

The tool enables software and systems architects to:

- Communicate about the security design of their systems
- Analyze those designs for potential security issues using a proven threat modeling methodology
- Suggest and manage mitigations for security issues





Know the purpose and process behind the Microsoft Threat Modeling Tool, and how to use it.

- 2.5 Quiz
- 3. Configure and Manage Security Monitoring
- 3.1 Create and customize alert rules using Azure Monitor

Alerting in Azure Monitor

- ✓Alert rules
- ✓ Action groups
- ✓ Event source



Activity Log Categories

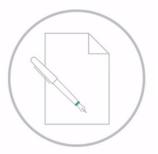
Administrative - For operations like create, update, and delete

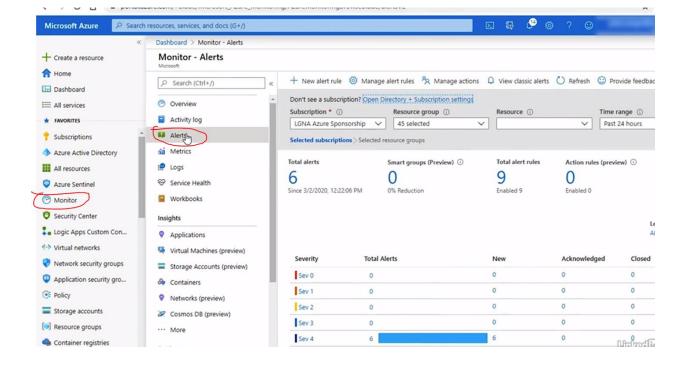
Security - Related to Azure Security Center

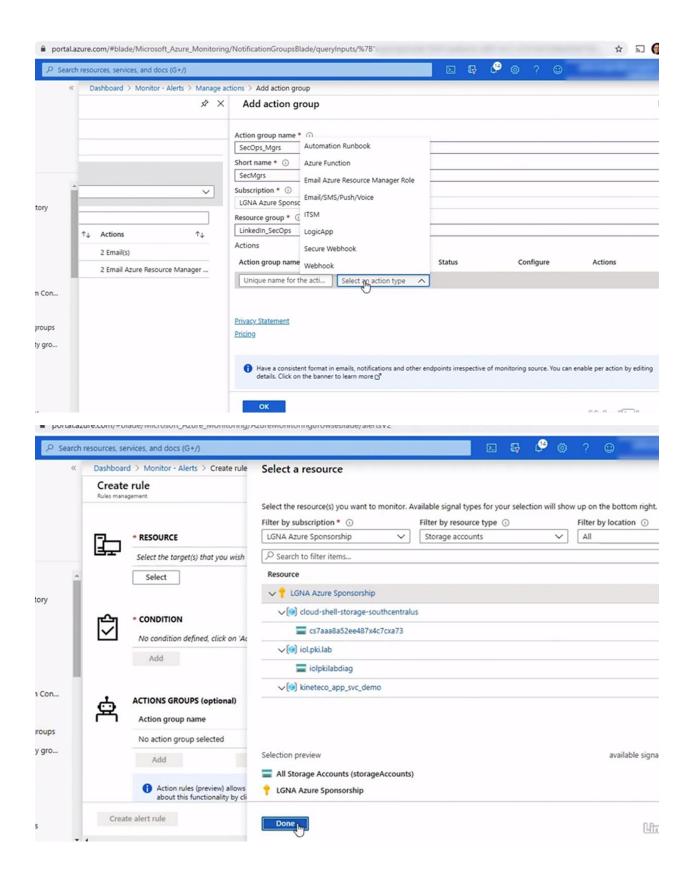
Recommendation – From Azure Advisor

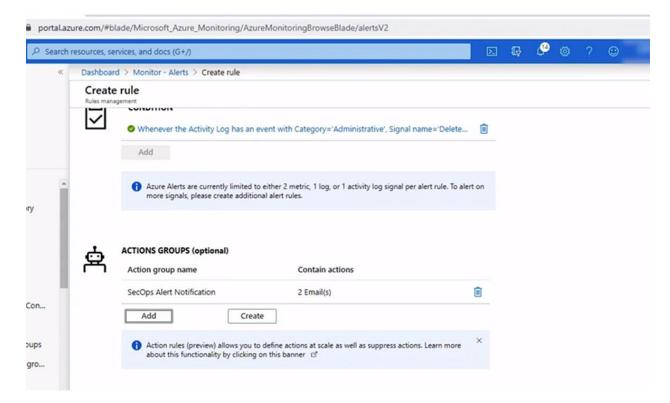
Policy – Effects and operations of Azure Policy

Autoscale - Infrastructure autoscale operations

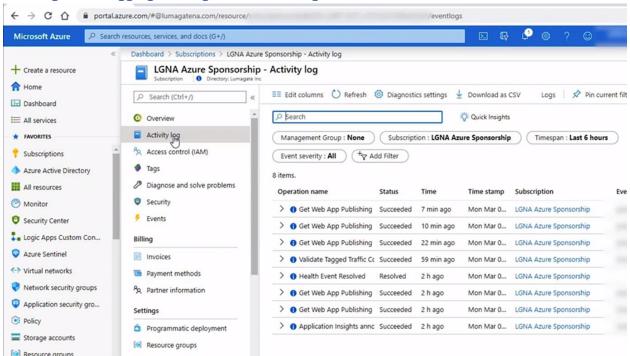


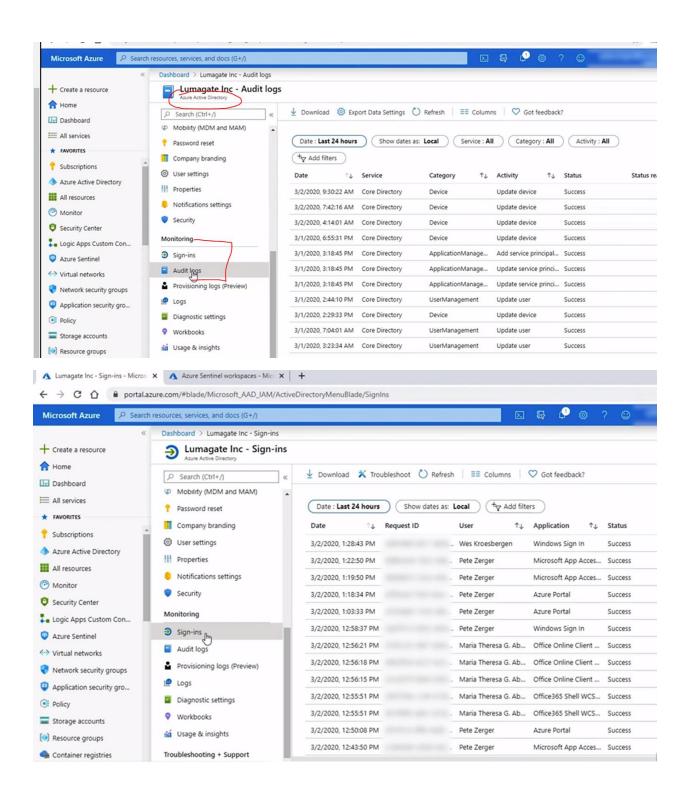


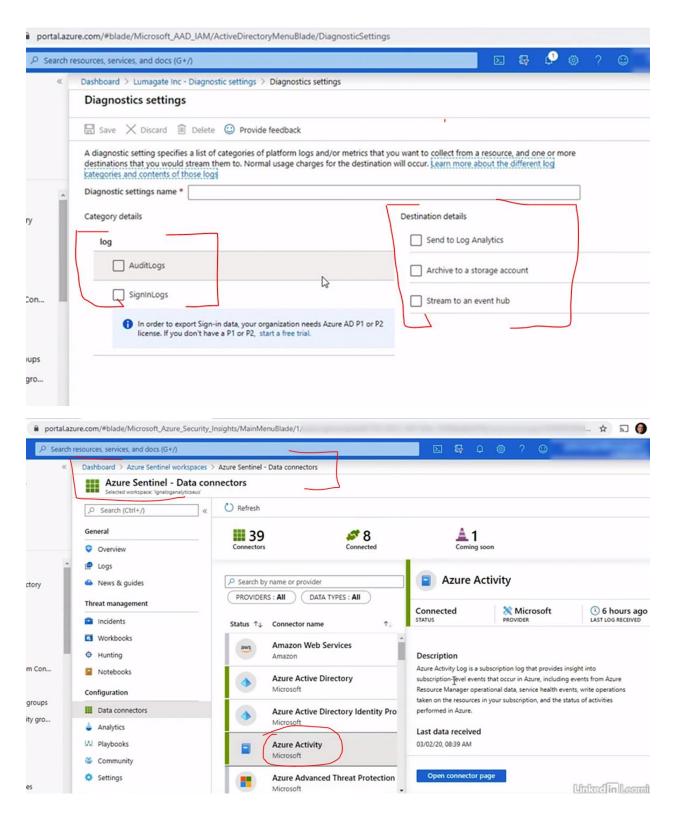




3.2 Diagnostic logging and log retention using Azure Monitor

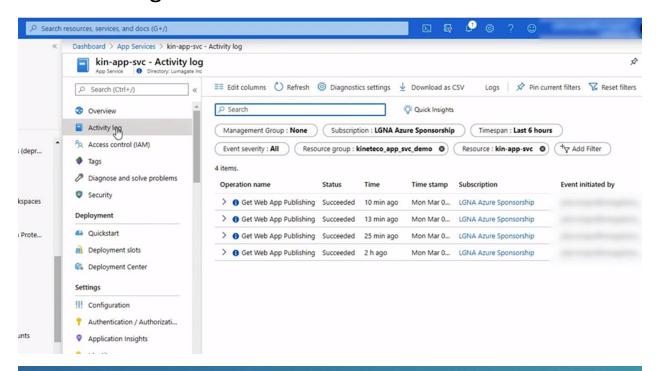






Sentinel Connectors are configured from the Sentinel Portal side, not from the Azure Portal Side.

Resource Logs





Activity Log

Tells us **who**, **what**, and **when** at the *subscription level*



Azure Active Directory Logs

History of sign-in activity and audit trail of changes made in an Azure AD tenant



Resource Log

Tells us about operations performed within an Azure resource



Exam Tip

Know your log types, what info they contain, and where you can send data for retention.

3.3 Monitor security logs using Azure monitor

Collecting Security Data from VMs



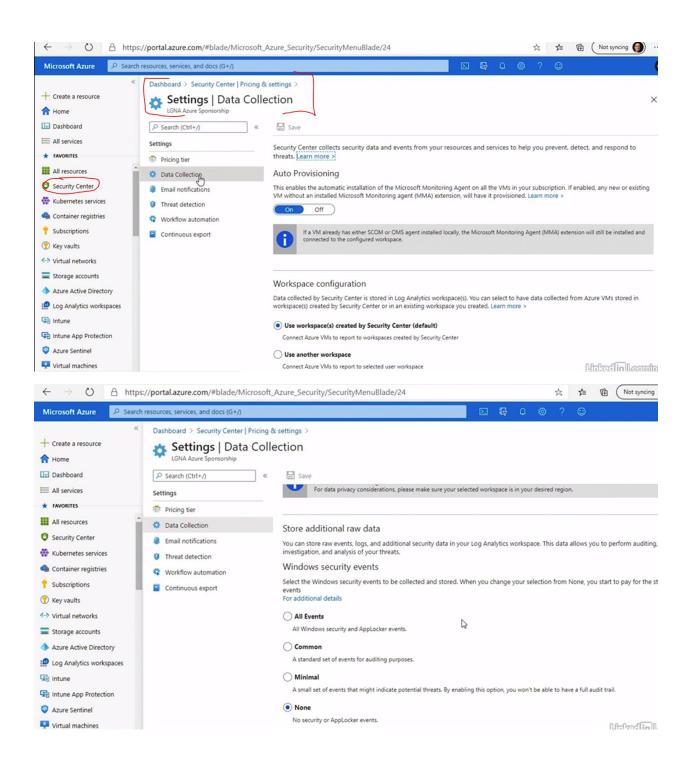
Log Analytics (Formerly OMS)

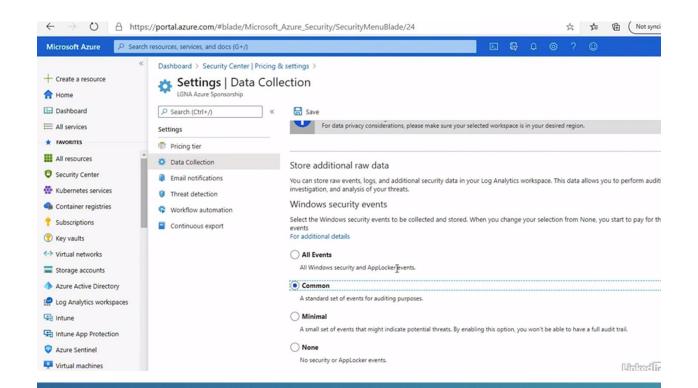


Security Center



Azure Sentinel



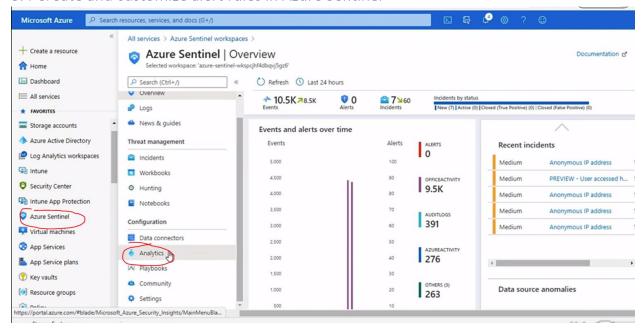


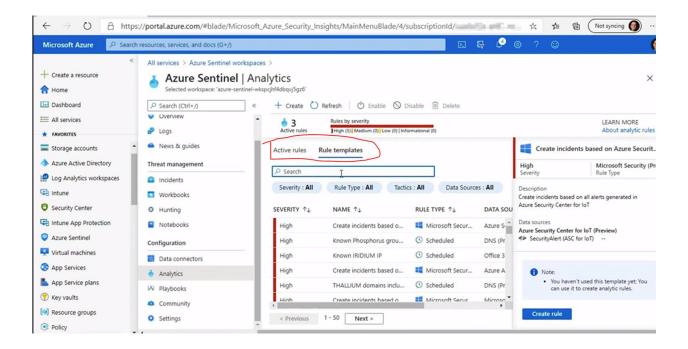


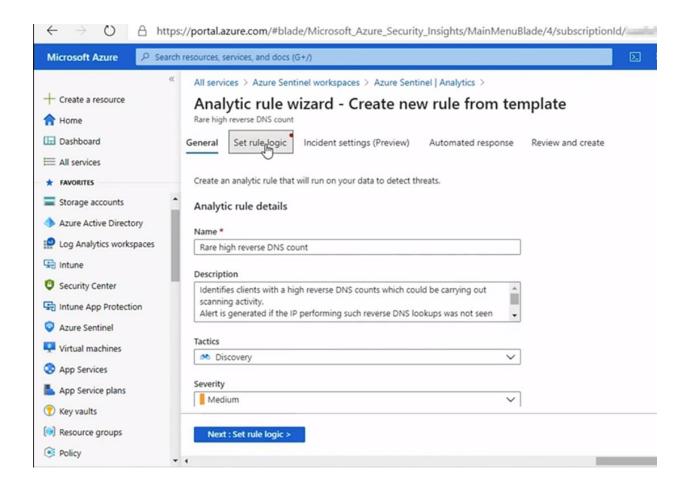
Exam Tip

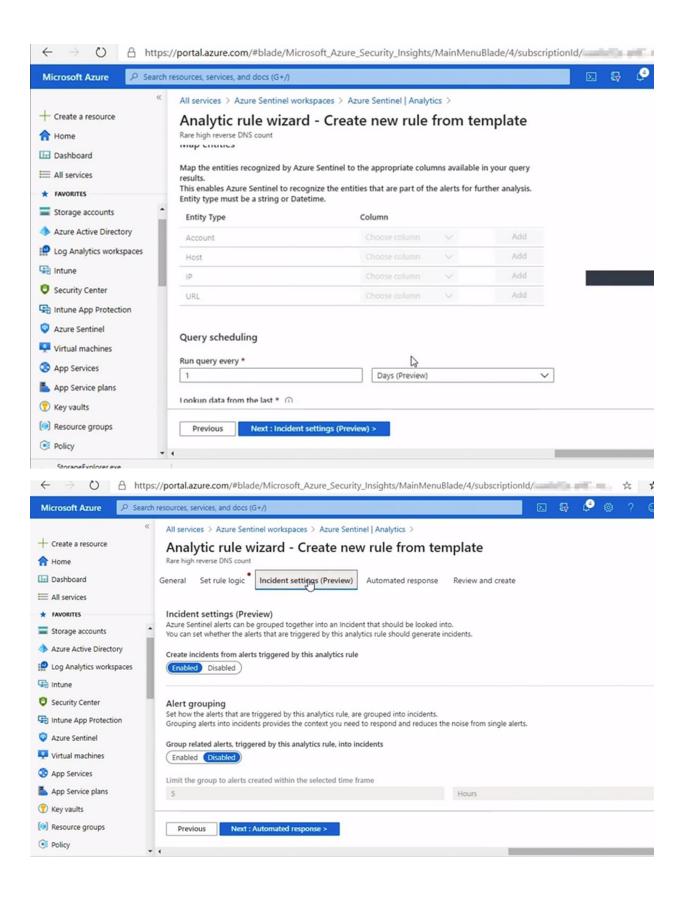
Know the Security Center and Azure Sentinel integration and config options.

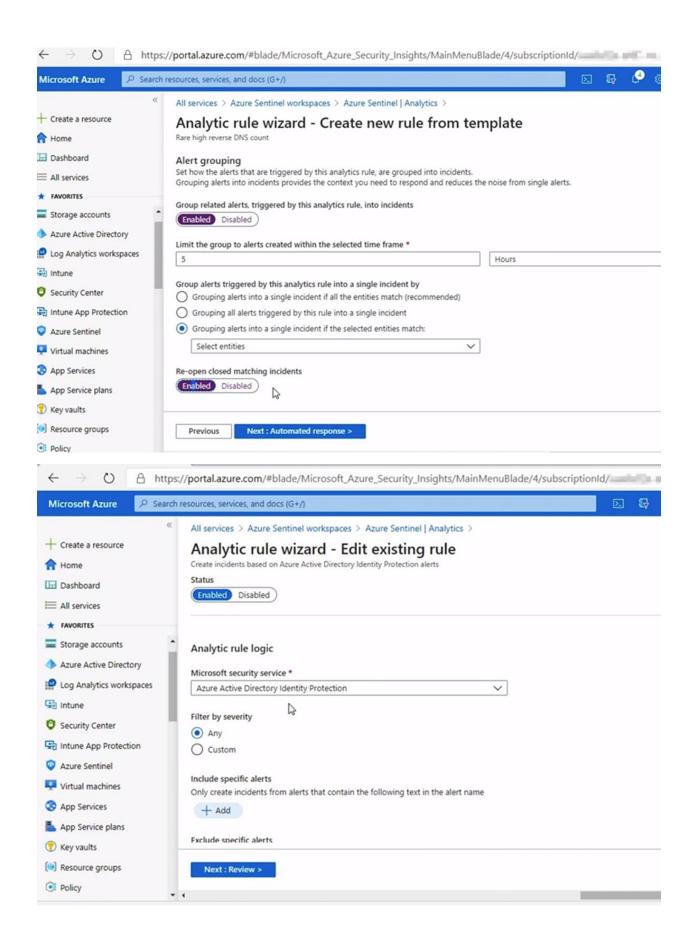
3.4 Create and customize alert rules in Azure Sentinel









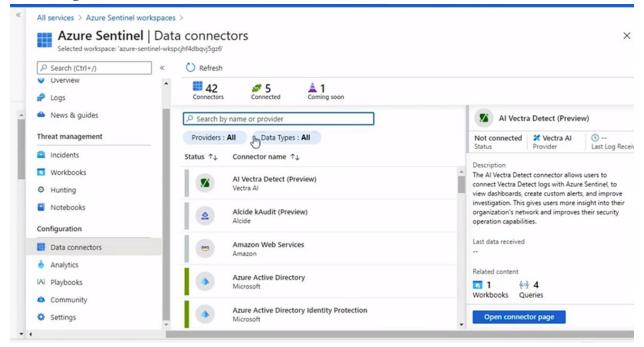


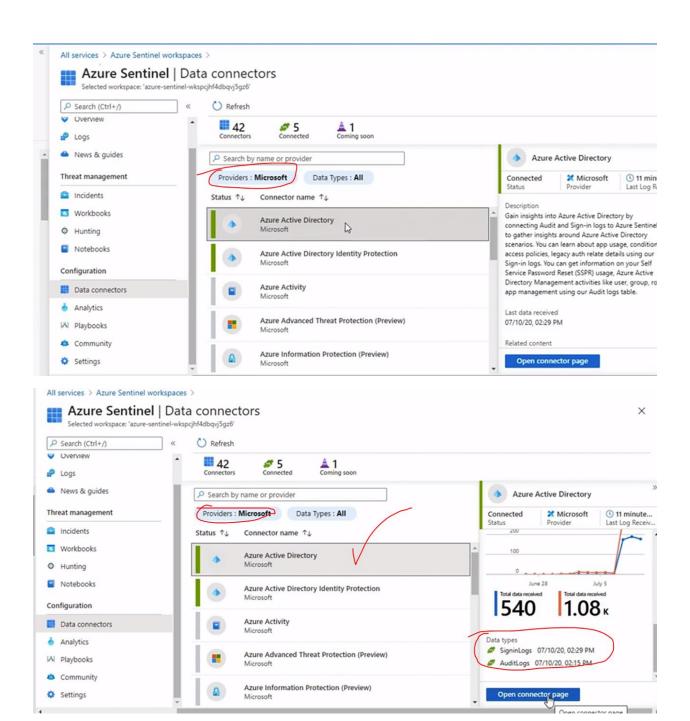


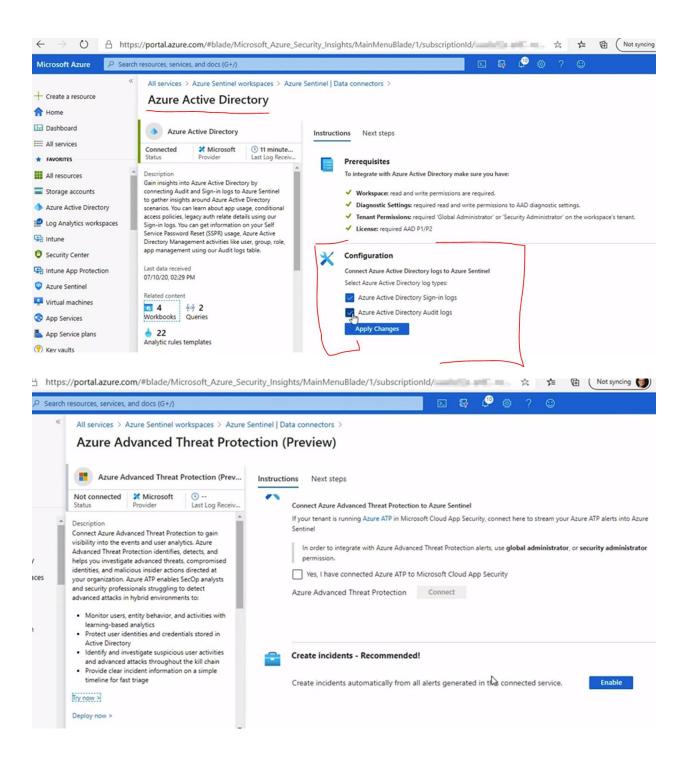
For the Exam

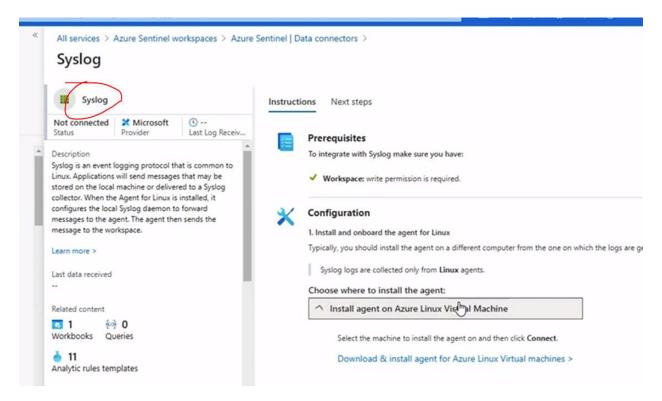
Know your tuning options for both the scenarios demonstrated.

3.5 Configure connectors in Azure Sentinel

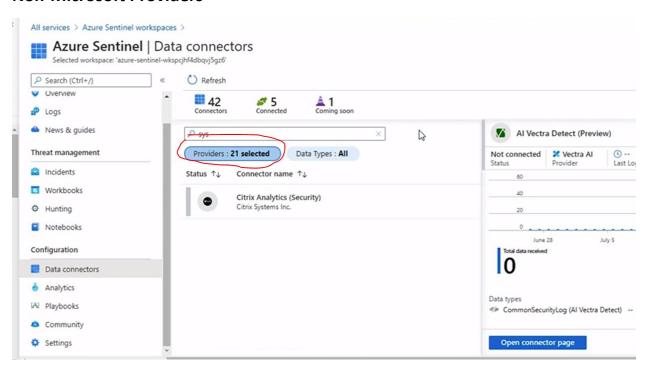


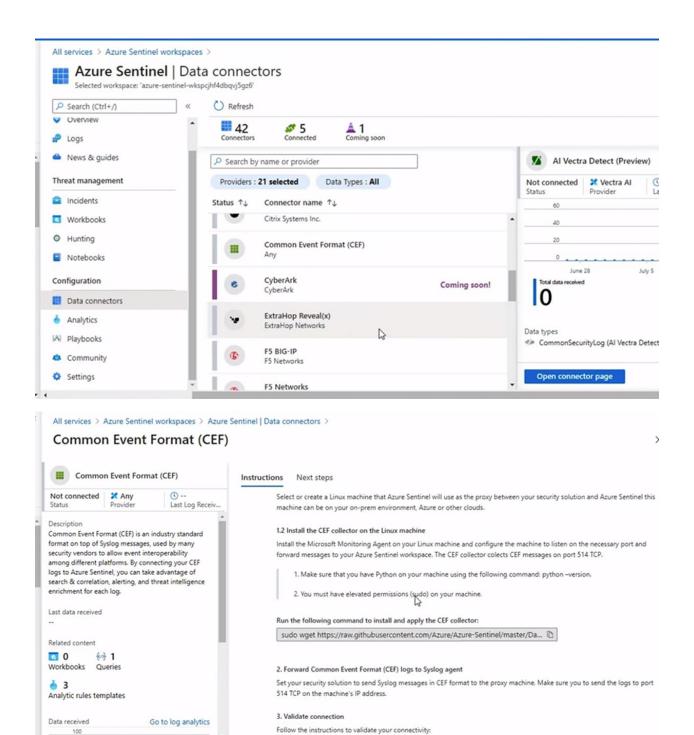






Non-Microsoft Providers



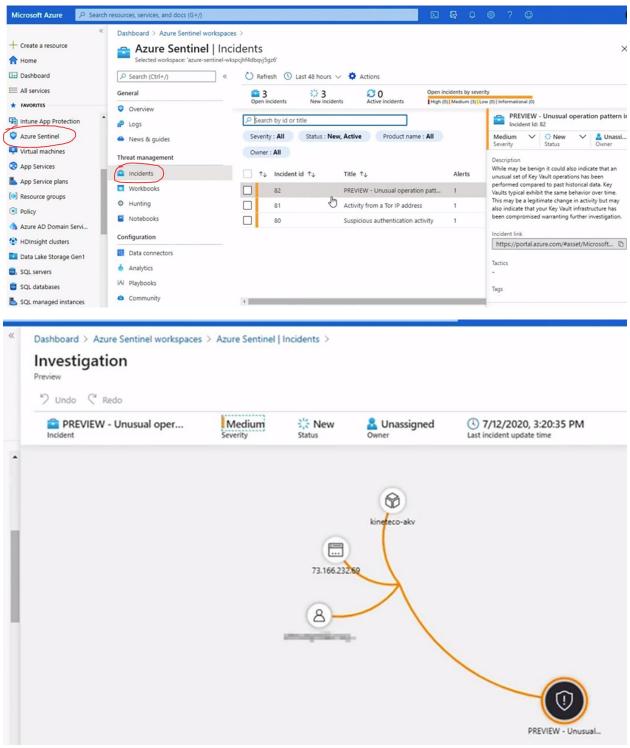


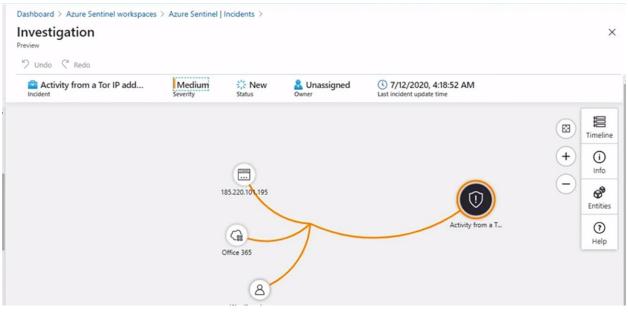


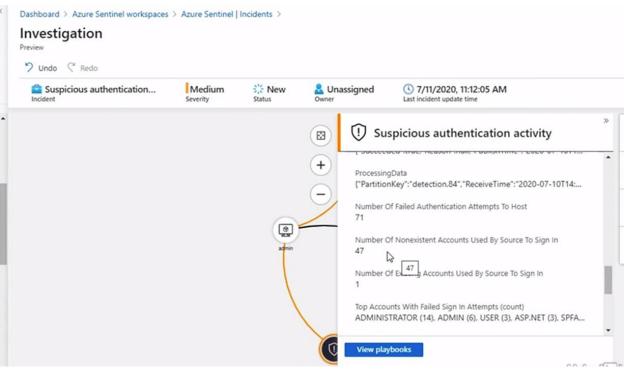
For the Exam

Know your data sources and types, particularly Microsoft connectors and syslog.

3.6 Evaluate alerts and incidents in Azure Sentinel







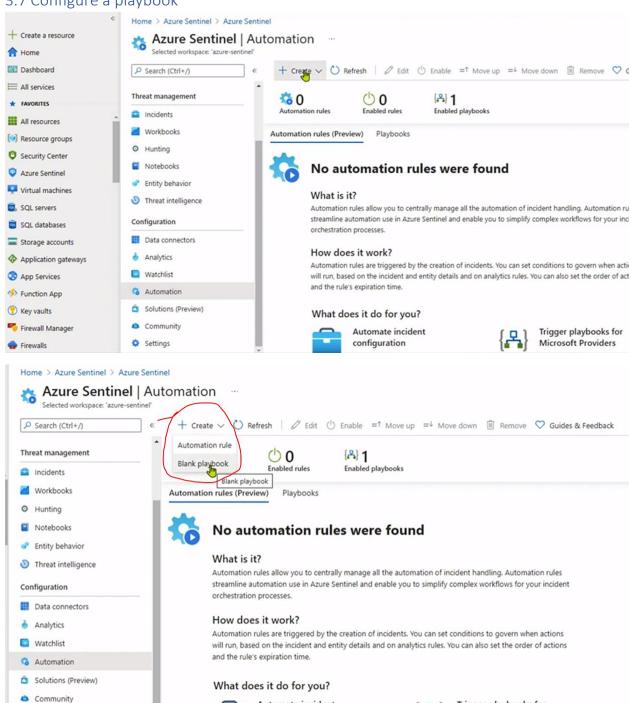


For the Exam

Get familiar with the investigation and hunting interfaces.

3.7 Configure a playbook

Settings



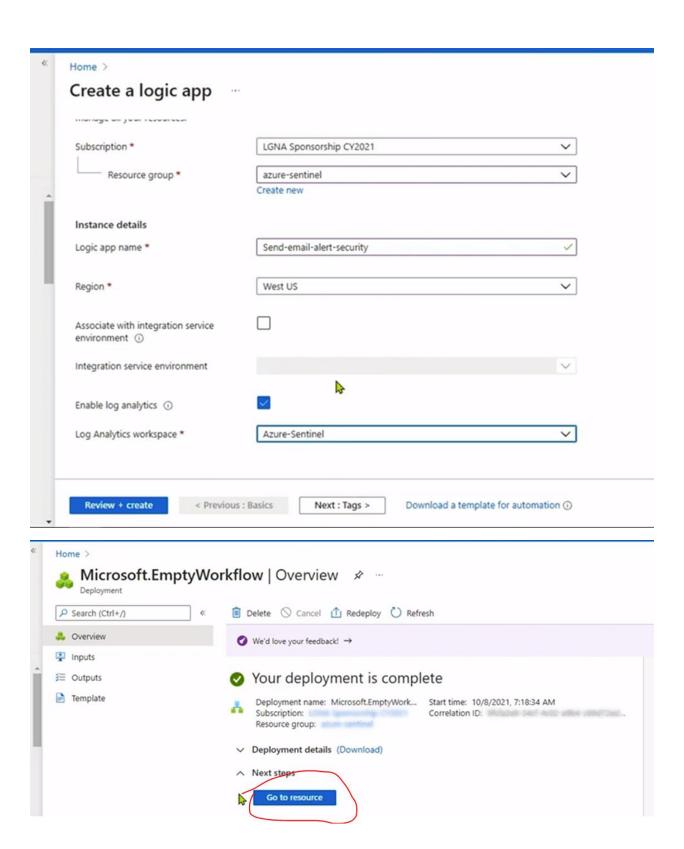
Automate incident

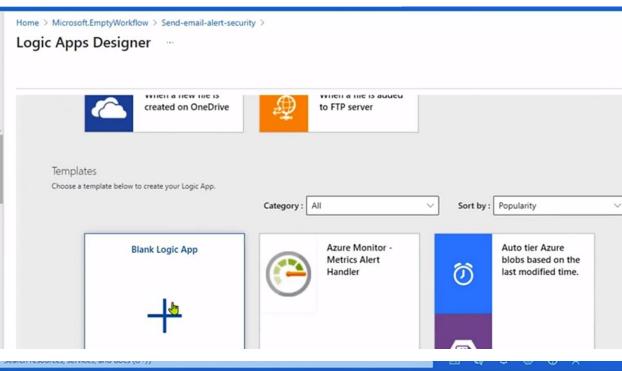
configuration

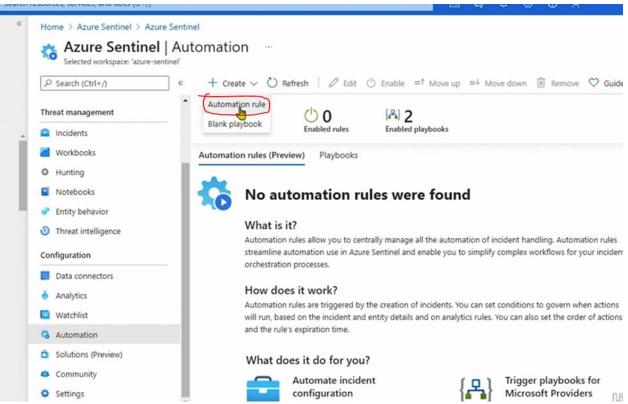
Trigger playbooks for

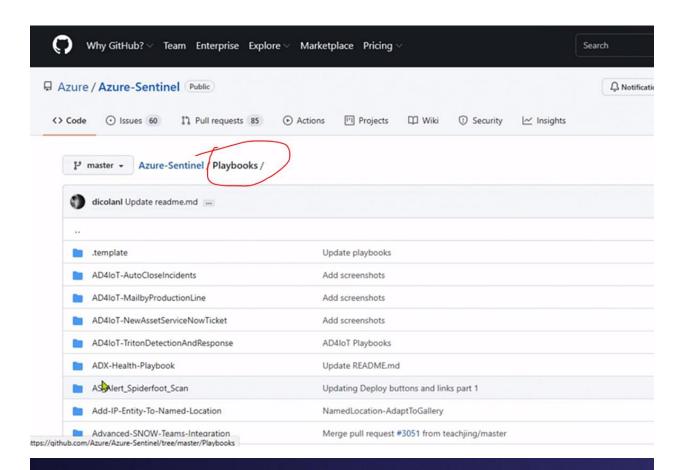
Littled in Lea

Microsoft Providers











EXAM TIP

Know how to configure playbooks for Azure Sentinel and how to use them in an automation rule.

3.8 Quiz

	istion 1 of 6 ich feature would you use in Azure to enable workflows and automation through the use of
	inectors?
0	Cosmos DB
\bigcirc	Azure Automation
\bigcirc	Power Automate
\oslash	Logic App Correct
	Playbooks in Azure Sentinel are based on Azure Logic App.
	Next question
Que	estion 2 of 6
	are Sentinel has generated several incidents over the last 48 hours. Which button would you ect to view the details of each incident in Sentinel?
0	Investigation
	Correct Clicking the Investigation button will open the visual investigation experience.
	Logs
	View full details

	u want to use Sentinel to collect syslogs from a Linux machine. What must you do to enable is?
	Configure diagnostic log collection.
	Enable the Azure VM connector in Azure Sentinel.
	Enable SSH access for Azure Sentinel managed identity.
0	Install the agent and configure the syslog server. Correct
	The Log Analytics agent can be configured to forward syslog data to Azure Sentinel.
Ques	tion 4 of 6
You	are creating an incident for only high-severity alerts, but you're getting a lot of low-severity. How would you prevent this from being included in the incident?
You	are creating an incident for only high-severity alerts, but you're getting a lot of low-severity
You noise	are creating an incident for only high-severity alerts, but you're getting a lot of low-severity e. How would you prevent this from being included in the incident? Set the query to run fewer times per day. Customize your incident with rules that exclude the noise. Correct
You noise	are creating an incident for only high-severity alerts, but you're getting a lot of low-severity e. How would you prevent this from being included in the incident? Set the query to run fewer times per day. Customize your incident with rules that exclude the noise.
You noise	are creating an incident for only high-severity alerts, but you're getting a lot of low-severity e. How would you prevent this from being included in the incident? Set the query to run fewer times per day. Customize your incident with rules that exclude the noise. Correct

	estion 5 of 6 ure Monitor requires log data to be stored in which repository?
	Azure storage account
8	Event Hub Incorrect
	Event Grid
⊘	Log Analytics Correct Azure Monitor relies on Azure Log Analytics for data storage.

Question 6 of 6

In Azure Monitor, what is a critical input for security alerts with critical information related to possible security events?

Alert rules

Activity log
Correct
Azure Activity logs capture a record of actions that may contain important events related to security.

Azure storage

Action group
Incorrect

Certificate



References