Sentinel Analytics Rules

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What is the purpose of Sentinel analytics rules?

- Analytics rules in Microsoft Sentinel are designed to automatically detect potential security threats and anomalies by analyzing the vast amounts of data collected in your environment.
- These rules help in identifying suspicious activities, unusual patterns, known attack techniques, and other indicators of compromise.

Types of Analytics Rules

- **Scheduled Query Rules:** Run Kusto Query Language (KQL) queries at specified intervals to detect patterns or anomalies that match known threat signatures or suspicious behaviors.
- **Microsoft Incident Creation Rules:** Automatically generate incidents from Microsoft 365 Defender alerts.
- **Fusion Rules:** Use machine learning to correlate and merge low-fidelity, disparate alerts into high-fidelity incidents.
- **ML Behavior Analytics Rules:** Leverage advanced machine learning algorithms to identify unusual behaviors that deviate from established patterns.
- **Near-real-time (NRT) analytics rules:** A type of analytics rule designed to detect threats and generate alerts rapidly, almost as soon as the relevant data is ingested into the system

Customization and Configuration

- Security teams can create custom analytics rules tailored to their specific environment and security needs.
- These rules can be configured based on various parameters, such as severity levels, event frequencies, and threshold conditions.

Response Automation and Alerts/Incidents

Response Automation:

- Analytics rules can be integrated with automated response actions, known as playbooks in Microsoft Sentinel.
- These playbooks are powered by Azure Logic Apps and can perform a range of automated tasks when a rule is triggered.

Alerts and Incidents:

- When an analytics rule is triggered, it generates alerts.
- These alerts can be aggregated into incidents, providing a consolidated view of related alerts for more efficient investigation and response.

Continuous Improvement

- Analytics rules can be regularly reviewed and modified based on evolving threat landscapes and organizational changes.
- This continuous improvement helps maintain their effectiveness over time.

Integration with Other Data Sources

Microsoft Sentinel analytics rules can analyze data from various sources, including Azure services, on-premises environments, and third-party solutions, offering a comprehensive view of security across the entire digital estate.