# zure Monitor Alerts

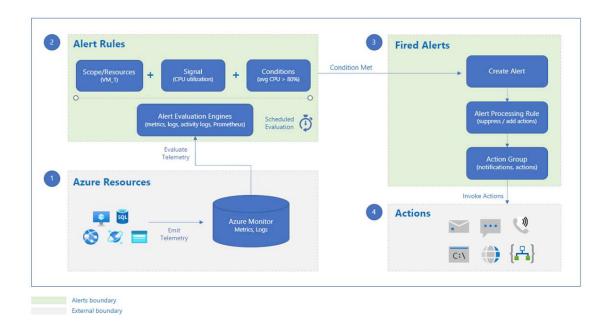
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## **Azure Monitor Alerts**

- Azure Monitor Alerts are notifications triggered by specific conditions within Azure services and resources.
- They allow you to proactively monitor the performance, availability, and overall health of your Azure environment.
- ➤ By setting up alerts, you can receive notifications through various means such as email, SMS, or other communication channels when predefined thresholds or conditions are met. This enables timely responses to potential issues, ensuring the smooth operation of your applications and infrastructure.



#### Alerts consist of:

- Action groups: These groups can trigger notifications to let users know that an alert has been triggered or start automated workflows. Action groups can include:
  - Notification methods, such as email, SMS, and push notifications.
  - Automation runbooks.
  - o Azure functions.
  - ITSM incidents.
  - Logic apps.
  - o Secure webhooks.
  - o Webhooks.
  - Event hubs.

- Alert conditions: These conditions are set by the system. When an alert fires, the alert condition is set to fired. After the underlying condition that caused the alert to fire clears, the alert condition is set to resolved.
- **User response**: The response is set by the user and doesn't change until the user changes it. The User response can be **New**, **Acknowledged**, or **Closed**.
- Alert processing rules: You can use alert processing rules to make modifications
  to triggered alerts as they're being fired. You can use alert processing rules to
  add or suppress action groups, apply filters, or have the rule processed on a
  predefined schedule.

## **Types of Alerts**

Azure Monitor supports various types of alerts to help monitor and manage resources effectively. These include:

- 1. **Metric Alerts**: Triggered based on metrics from Azure resources (e.g., CPU usage, memory).
- 2. Log Alerts: Based on log data collected by Azure Monitor Logs, triggered by queries.
- 3. **Activity Log Alerts**: Triggered by specific activities in the Azure activity log, such as resource changes.
- 4. **Application Insights Alerts**: Based on telemetry data from Application Insights, useful for monitoring application performance.
- 5. **Service Health Alerts**: Notify you of service issues and maintenance events affecting Azure services.

#### Alerts and state

Alerts can be stateful or stateless.

- Stateless alerts fire each time the condition is met, even if fired previously.
- Stateful alerts fire when the rule conditions are met, and will not fire again or trigger any more actions until the conditions are resolved.

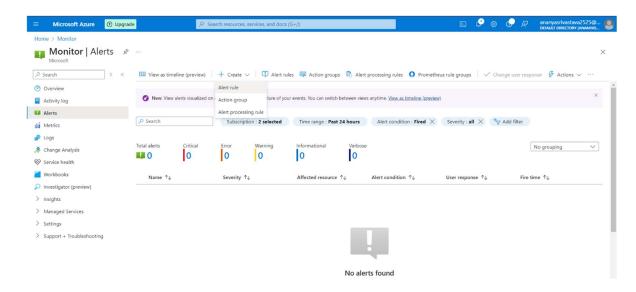
## **Create an Azure Monitor alert**

#### Step 1: Sign in to Azure Portal

- 1. Go to Azure Portal.
- 2. Sign in with your Azure account.

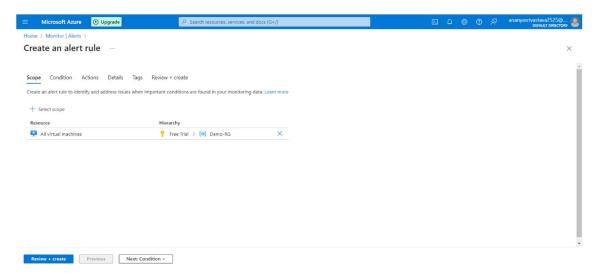
#### **Step 2: Navigate to Azure Monitor**

1. In the left-hand menu, select "Monitor".



#### Step 3: Create an Alert Rule

- 1. In Azure Monitor, select "Alerts" from the menu.
- 2. Click on "New alert rule".

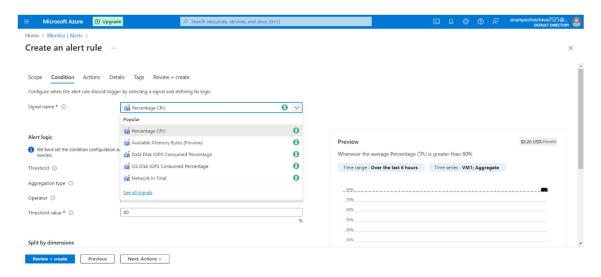


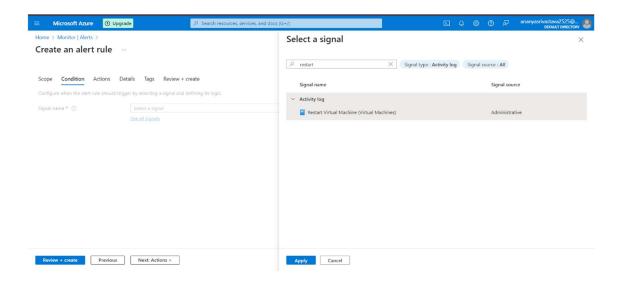
#### **Step 4: Define the Scope**

1. Under "Scope", select the resource you want to monitor (e.g., a virtual machine, storage account, etc.).

## Step 5: Add a Condition

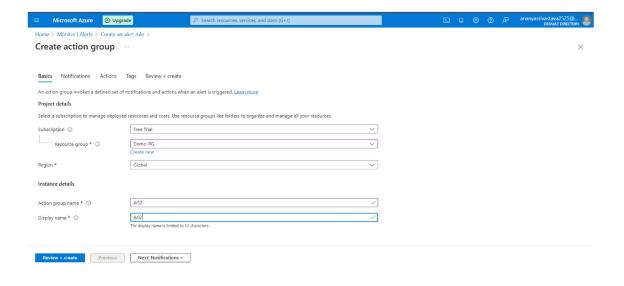
- 1. Under "Condition", click "Add condition".
- 2. Choose a signal from the available options (e.g., CPU percentage, memory usage).
- 3. Configure the condition logic.

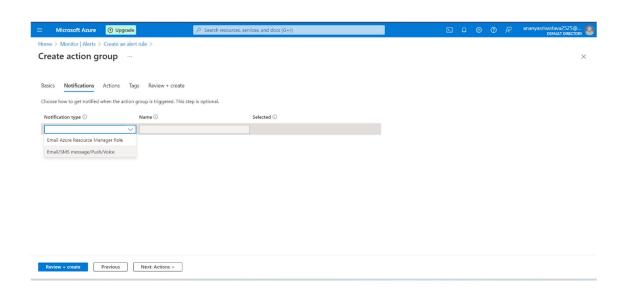


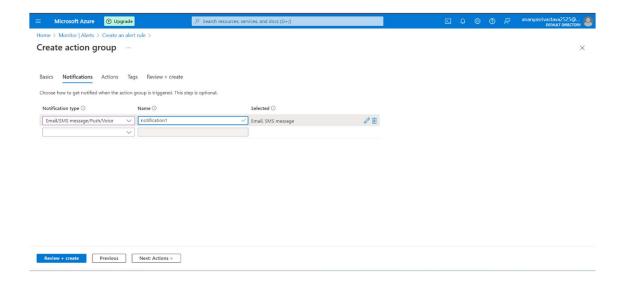


#### **Step 6: Define the Action Group**

- 1. Under "Action group", click "Select action group".
- 2. You can create a new action group or use an existing one. Action groups define what actions will be taken when an alert is triggered (e.g., sending an email, SMS, or calling a webhook).





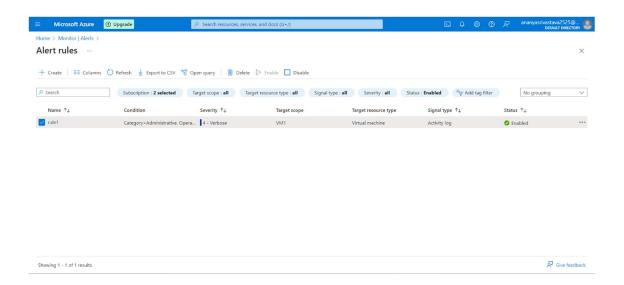


#### **Step 7: Configure the Alert Details**

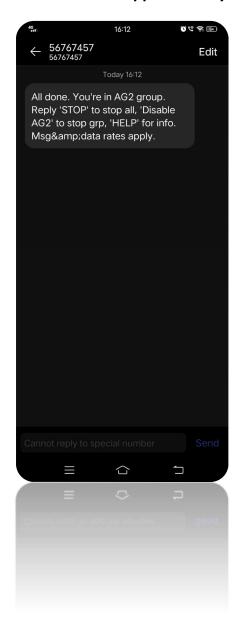
- 1. Under "Alert rule details", enter a name and description for the alert rule.
- 2. Set the severity level (e.g., Sev 0 for critical, Sev 1 for warning).

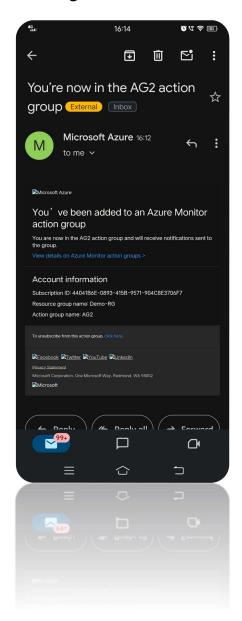
#### **Step 8: Review and Create**

1. Review all configurations and click "Create alert rule".



# Alert Notification appears in my Email and Text Message.





# **Reference**

- ➤ YouTube : https://www.youtube.com/watch?v=puvJDAaMhOA
- > Website :https://learn.microsoft.com/en-us/azure/azure-monitor/alerts/alerts-overview