Configure Metric Alert

Metric alert watches **numbers** (metrics), like CPU usage, and sends alert if value crosses limit.

Example:

Alert if CPU usage is more than 70% for 5 minutes.

Step-by-step:

1. Go to Azure Portal

https://portal.azure.com

2. Search for "Virtual Machines"

Pick a VM that you want to monitor.

- 3. In the left menu, click on "Alerts" > "+ New Alert Rule"
- 4. Under Scope

Confirm the correct VM is selected.

- 5. Under Condition, click "Add condition"
- 6. Select "Percentage CPU" as the signal.
- 7. Under Configure signal logic:

Condition: Greater than

o Threshold value: 70

Aggregation type: Average

o Period: 5 minutes

- 8. Click Done
- 9. Under Action Group, click "Create action group"

Name: CPUAlertActionGroup

- Email or SMS: Enter your email to get the alert
- Save it

10. Under Alert rule details

- Alert rule name: HighCPUAlert
- Severity: 3 (Informational) or 2 (Warning)
- 11. Click Create alert rule

Testing Metric Alert:

- 1. On your VM, run a script or workload that increases CPU.
 - Use a tool like CPU stress in Linux or open many browser tabs in Windows.
- 2. Wait 5-10 minutes.
- 3. Check your email you'll get an alert when CPU goes above 70%.

2 Configure Activity Log Alert

Activity log alert is triggered when someone **makes changes in Azure**, like deleting a VM, updating a resource, or disabling a security setting.

Example:

Alert when someone deletes a Resource Group.

Step-by-step:

- Go to Azure Portal Search for "Monitor" and click it.
- 2. Go to "Alerts" > "+ New Alert Rule"

- 3. Under Scope:
 - Click "Select scope", choose the subscription you want to monitor.
- 4. Under Condition, click "Add condition"
- 5. Choose "Delete Resource Group (Administrative)"
 - o If not listed, search for "Delete", then choose the right activity.
- 6. Click Done
- 7. Under Action Group:
 - Use an existing action group or create a new one (like above).
- 8. Alert rule name: DeleteRGAlert

Severity: 2 (Warning)

9. Click Create alert rule

▼ Testing Activity Log Alert:

- 1. Go to Azure → create a test Resource Group (e.g., RG-TestAlert)
- 2. Delete that Resource Group.
- 3. Wait a few minutes, then check your email you'll get an alert.

3 Configure Log Search Alert

Log search alert is used with **Log Analytics**. It watches for logs that match a **query**.

Example:

Alert when someone gets "Failed RDP login" on a VM.

Step-by-step:

1. Make sure your VM is sending logs to a Log Analytics Workspace

If not:

- \circ Go to the VM \rightarrow Monitoring \rightarrow **Diagnostic settings**
- Click "Add diagnostic setting"
- Choose Send to Log Analytics
- Select or create a workspace
- 2. Go to Azure Portal → Search for "Log Analytics workspaces"
- 3. Open your workspace → Click **Logs**
- 4. Use this query for failed logins: SecurityEvent

| where EventID == 4625

| where AccountType == "User"

- 1. Click "New Alert Rule" on top
- 2. Set condition:
 - When **results > 0** in last **5 minutes**
- 3. Add action group (email, etc.)
- 4. Alert name: FailedRDPLoginAlert

Severity: 2 (Warning)

5. Click Create

▼ Testing Log Search Alert:

- 1. Try to RDP into your VM with wrong password (just once or twice)
- 2. Wait 5-10 minutes
- 3. You'll receive an alert for failed login attempt.

Representation of these alerts important?

Ale What It Protects rt You From Typ

Metri System performance issues, possible

c DoS attacks

Alert

Activity Unauthorized or risky changes in Log Alert environment

Log Search Alert Security threats like brute-force, malware behavior