# **VM Alert Setup:**

### Check default definition for a VM (This is automatically setup during VM creation):

<u>az monitor metrics list-definitions --resource \$(az vm show --name App-VM1 --resource-group RG-WebApplication --query id -o tsv)</u>

#### **Create Action Group for getting notification**;

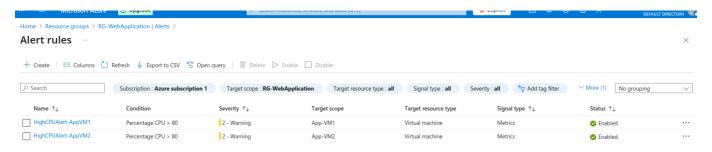
<u>az monitor action-group create --name AlertActionGroup --resource-group RG-WebApplication --short-name</u> AlertGrp --action email MyEmailAction <EMAIL-ID>



### **Create Rule for HighCPU alert notification to Action Group:**

<u>az monitor metrics alert create --name HighCPUAlert-AppVM1 --resource-group RG-WebApplication --scopes \$</u> (<u>az vm show --name App-VM1 --resource-group RG-WebApplication --query id -o tsv) --condition "avg Percentage CPU > 80" --window-size 5m --evaluation-frequency 1m --action AlertActionGroup</u>

<u>az monitor metrics alert create --name HighCPUAlert-AppVM2 --resource-group RG-WebApplication --scopes \$</u> (<u>az vm show --name App-VM2 --resource-group RG-WebApplication --query id -o tsv) --condition "avg</u> Percentage CPU > 80" --window-size 5m --evaluation-frequency 1m --action AlertActionGroup



## **Create Rule for VM (Start/Stop) alert notification to Action Group:**

az monitor activity-log alert create --name VMDeallocatedAlert --resource-group RG-WebApplication --scope /subscriptions/<Subscription-Id> --condition category=Administrative and operationName=Microsoft.Compute/virtualMachines/deallocate/action and status=Succeeded --action-group AlertActionGroup

az monitor activity-log alert create --name VMStartAlert --resource-group RG-WebApplication --scope /subscriptions/<Subscription-Id> --condition category=Administrative and operationName=Microsoft.Compute/virtualMachines/start/action and status=Succeeded --action-group AlertActionGroup

# **VM Alert Testing:**

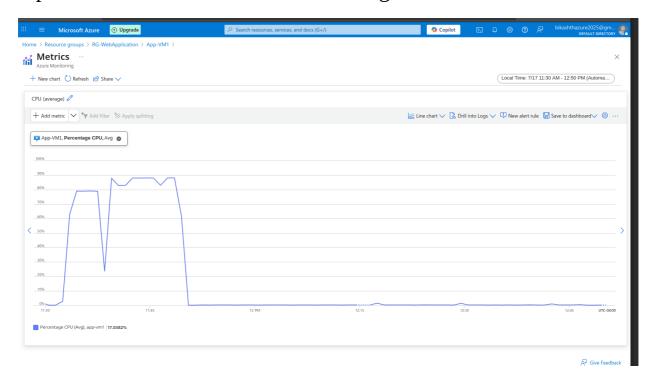
## **Test Case for High CPU:**

Step 1: Install stress-ng application. sudo apt install stress-ng

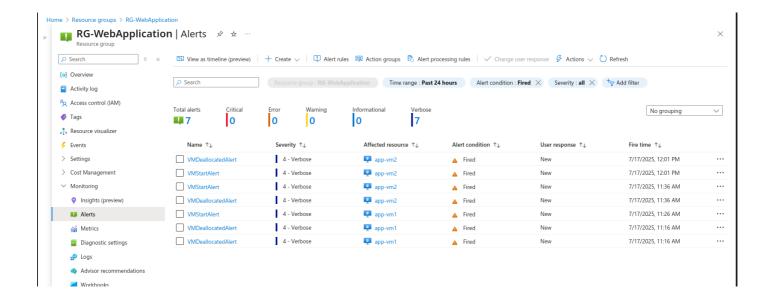
Step 2: Run below stress-ng command to utilize high cpu into the VM.

stress-ng --cpu 2 --cpu-load 100 --timeout 300s

Step 3: Monitor if the CPU reaches to Highest Side:



- 4. Check if you receive email notification.
- 5. Check Alert in Azure portal.



# **Test Case VM Start/Stop:**

- 1. Stop VM
- 2. Start VM
- 3. Check email if you receive email notification.
- 4. Check Alert in Azure portal.

