AWS EC2 CPU Utilization

Standard Operating Procedure (SOP)

Overview

This SOP outlines the process for monitoring and managing EC2 CPU utilization on AWS.

Login to the ec2 instance and kill all the processes related to stress-ng.

2. Platform

AWS

Code Language

Python

Required Dependencies

- boto3
- AWS SDK for Python

Credentials Required

- AWS_ACCESS_KEY_ID
- AWS_SECRET_ACCESS_KEY
- AWS_REGION

Input Parameters

1. instance_id
   Type: String
   Description: The unique ID of the EC2 instance to monitor
   Required: true
   Default: i-09eaa4cef4defa6fe

Logic Flow

1. Pre-Creation Validation

- Validate AWS credentials
- Validate EC2 Instance ID
- Kill all the processes associated with stress-ng by using pkill -9 stress-ng

2. Post-Creation Configuration

- Validate all the processes mentioned are terminated
- Log Action

3. Error Handling Scenarios

- Invalid EC2 Instance ID
- Insufficient Permissions

Success Criteria

- Logs indicate the successful creation.
- print once you kill the process as "WorkNote" in the script if also fails.

Monitoring Considerations

- Review CPU Metrics

Tags

- Aws
- ec2
- cloudwatch
- cpu-utilization
- monitoring
- alarm