

AWS EC2 Memory Utilization

Standard Operating Procedure (SOP)

Overview

This SOP outlines the process for monitoring EC2 instance memory 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 name of the EC2 instance to monitor

Required: true

Default: i-06ed437a4b8df4885

Logic Flow

1. Pre-Creation Validation

- Validate AWS credentials
- Validate EC2 Host IP
- Kill all the processes associated with stress-ng by using `pkill -9 stress-ng`

2. Post-Creation Configuration

- Log Action
- Validate all the processes mentioned are terminated

3. Error Handling Scenarios

- Invalid EC2 Host IP
- 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 Memory Metrics

Tags

- aws
- ec2
- cloudwatch
- memory-utilization
- monitoring
- alarm