

# **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. host\_ip**

Type: String

Description: The unique IP of the EC2 instance to monitor

Required: true

Default: ip-12-0-1-195

### **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