# AWS Network ACL(NACL) Inbound Rule Update

# **Standard Operating Procedure (SOP)**

#### Overview

This SOP outlines the process for programmatically allowing a specific inbound rule (Rule No. 100) in a Network Access Control List (NACL) on AWS using Python.

#### 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**

- network\_acl\_id
  - Type: String
  - Description:The unique ID of the Network Access Control List (NACL)
  - Required:true
  - Default: acl-04693d8452e77de5a
- 2. rule number
  - Type: Integer
  - Description:The rule number (in this case, Rule No. 100)
  - Required:true
  - Default:100

# **Logic Flow**

- 1. Pre-Creation Validation• Validate AWS credentials• Validate NACL ID
  - Validate Rule Number
- 2. Post-Creation Configuration
  - Verify Rule Application
- 3. Error Handling Scenarios
  - Invalid NACL ID
  - Insufficient Permissions

#### **Success Criteria**

- Rule No. 100 is successfully applied to the NACL for inbound traffic.
- Action is logged for auditing purposes.
- Rule appears in the NACL's inbound rules list

# **Monitoring Considerations**

- Verify Rule Addition
- Audit Logs
- Monitor NACL Metrics

# Tags

- Aws
- Nacl
- Security

• networking