This is SOP (Standard Operation Procedure) Security Group Creation using CloudFormation Templates.
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# Revision History

Date	Version	Changed Sections	Author	Approver
11/19/2017	1.0	Created	Samal Dimdung	

# **Document Controller Number**

Document Reference	Project

# 1 Purpose

The purpose of the document is to provide guidance on how to use the CloudFormation template to create 4 tier shared service (ELB Tier, Web Tier, App Tier and Dbs Tier) AWS Security Group with predefined templates which will create 4 Standard Security groups and that can be used as Shared Services Model in AWS by Multi-tenant environments.

# 2 Tools Required

Tool Name	Tool Location	Tool Description
AWS Console Access	AWs Account	AWS Console can be used to run CloudFormation Templates
		AWS CLI or AWS SDK can be used if you don't want to use AWs Console to run the CloudFormation Templates

## 3 Associated Documents

The follow documents are associated with the Standard Operating Procedure and are required in order to complete it. For Google Docs/Wiki please type the document name and apply hyper link to google doc.

Document Name	Date Entered

# 4 Assumptions

The individuals reading this document are assumed to already have worked as AWS Architect or should have a skill for at least AWS Solution Architect - Associate level certification.

# 5 List of Resources will be created

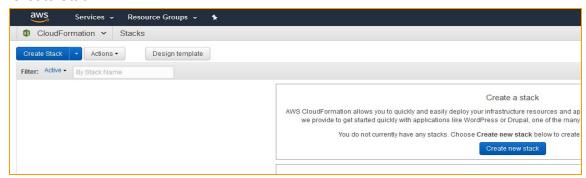
Numbers	Resource Name	Description
1	SG-Shared-Elb-Mgmt-E	ELB/ALB Security Group and it will have port open for either Corporate network like 10.20.0.0/11 or 0.0.0.0/0
	SG-Shared- <tier>-<env>-E (E for East region)</env></tier>	-E on port 443 most of the time, but sometime ports 80 als can be open with exception.
1	SG-Shared-Web-Mgmt-E	This Web Security group typically allowed inbound traffic from ELB/ALB Security Group on port 443/8443 or
	SG-Shared- <tier>-<env>-E (E for East region)</env></tier>	any custom ports.
1	SG-Shared-App-Mgmt-E	This App Security group typically allowed traffic from Web Security group on custom ports since as per
	application they run on different ports. Like 8081, 5555, 27001 etc	
1	SG-Shared-Dbs-Mgmt-E	This DBS security group allowed from typically API/Application servers with 3306, 1433, 5432, 5439,
	SG-Shared- <tier>-<env>-E (E for East region)</env></tier>	1521 etc.

### 6 Produrre

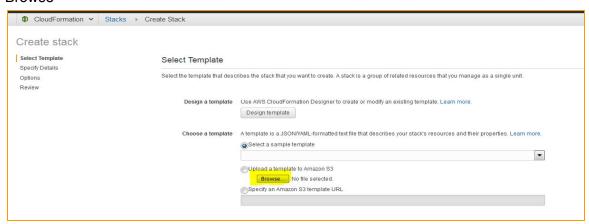
### 6.1 Creating Security Group Using CloudFormation Templates

1. Download the CloudFormation Templates on your Local Workstation or CM servers from Github or S3. You can make Nested templates and run the all the CloudFormation Templates to create Security group along with VPC creation time but here I'm doing each CloudFormation Templates separately.

#### 2. Create Stack



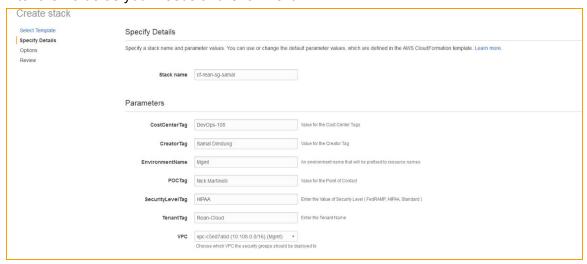
#### 3. Browse



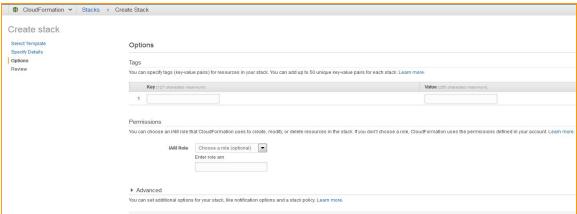
4. Select the Templates > Open



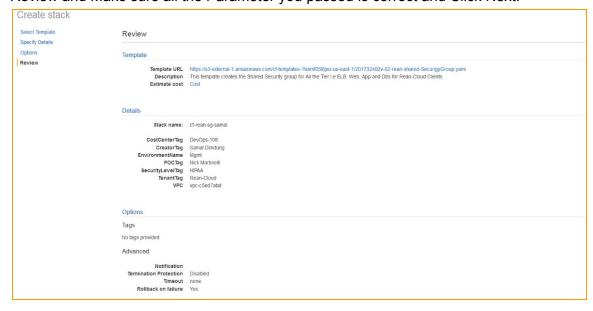
5. Alter the Value as your needs and Click Next



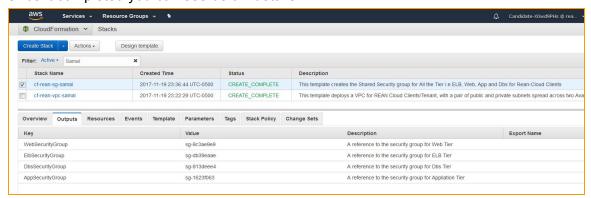
6. Leave blank in Options and Click Next ( You can configure Advance if you like to but I'm leaving blank for this demo)



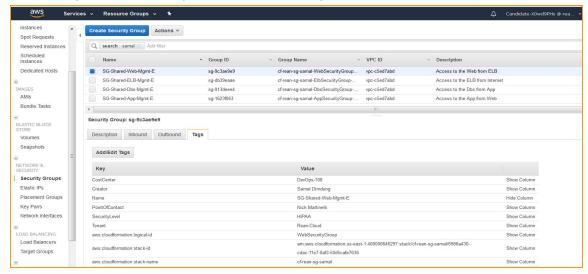
7. Review and Make sure all the Parameter you passed is correct and Click Next.



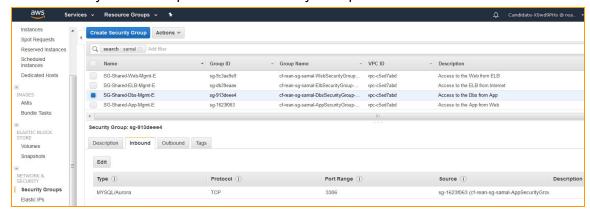
8. Once it completed you can see below details



9. If you go the AWS Console, ec2 > Security Group sections you will see below. The Cools things is The Security Group also have tags



10. Inbound traffic for Dbs is only allowed for 3306 from App Security Groups, you can add or remove any number of ports for the Security Groups..



11. Done, now you can start using ..

