Secure Cloud Foundation (SCF) — Powered by Velocity

Change is everywhere



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AWS Service Usage Descriptions

Tower Post Processor (TPP)

- Serverless Application: Serverless Functions for performing automated actions
 - o AWS Lambda Functions, Python Env 3.9 and later
- Organization Management: Service for managing Accounts and Organizational Units
 - AWS Organizations
 - o AWS Control Tower
 - Customizations for Control Tower (CfCT)
- DevOps: Development Operations Services for Continuous Integration, Deployment/Delivery
 - CodeCommit Repository
 - o CodeBuild Jobs
 - o CodePipeline Pipelines
- Cloud Development Kit Pipelines (for use with CDK Applications)

Central Network (with PaloAlto)

- Infrastructure Product Management: Resources for managing infrastructure products for standard network architecture
 - Service Catalog Products VPCs
- **Network:** Resources for managing network infrastructure and traffic
 - VPCs
 - Security Groups
 - VPC Endpoints
 - Palo Alto VM Series (using EC2 Infrastructure)
 - Route 53 Public and Private Hosted Zones
 - Transit Gateway Attachments
 - Transit Gateway Route Tables
 - AWS Elastic Load Balancer Gateway Load Balancer
- Resiliency: Services for maintaining resilience of network infrastructure
 - EC2 Autoscaling -> Palo Alto Firewall AutoScaling
- Serverless Automation: Resources for performing automating actions during deployment and management of network infrastructure
 - o AWS Lambda Functions Python Env 3.9 and Later
- DevOps: Development Operations Services for Continuous Integration, Deployment/Delivery
 - o CodeCommit Repository
 - CodeBuild Jobs
 - CodePipeline Pipelines
 - Cloud Development Kit Pipelines (for use with CDK Applications)
- Access Management: Resources used for managing access to and from network infrastructure
 - IAM Roles and Policies

Identity

- Access Management: Resources used for managing access for users
 - o AWS Single Sign On (AWS SSO) Permission Sets (Optional)
 - o IAM Roles
 - o IAM Customer Managed Policies
- **DevOps:** Development Operations Services for Continuous Integration, Deployment/Delivery
 - o CodeCommit Repository
 - o CodeBuild Jobs
 - o CodePipeline Pipelines
 - Cloud Development Kit Pipelines (for use with CDK Applications)

IAM Roles and Policies

Tower Post Processor (TPP)

TowerPostRole

- Description: Organization enumeration to identify target accounts and OUs for post processing activities
- o Principal: lambda.amazonaws.com

Central Network (with PaloAlto)

SSM-Network-Test-Role

- o Description: SSM Role used for Network Testing from a Test EC2 Instance
- o Principal: ec2.amazonaws.com

• Cloud-Connector-Instance-Role

- Description: Used by EC2 to access secrets from Secret Manager
- o Principal: ec2.amazonaws.com

Palo-FW-Instance-Role

- Description: Used by EC2 to access secrets from Secrets manager
- Principal: ec2.amazonaws.com

Data-flow-log-role

- o Description: used for writing vpc flow logs to appropriate target S3 buckets
- o Principal: vpc-flow-logs.amazonaws.com

• Subscription-filter-flow-logs

- Description: Role required for subscribing VPC Flow logs to Kinesis service family
- o Principal: logs.amazonaws.com

Subscription-Filter-DNS

- o Description: Role for subscribing Route53 DNS Logs to Kinesis Service Family
- o Principal: logs.amazonaws.com

Role5id432

- o Description: Creates IAM Instance Profiles to be used by EC2 VMs
- o Principal: ec2.amazonaws.com

Identity

Default Roles Listed below are OPTIONAL for deployment when deploying the Identity Block. All roles are built to be used by IAM User or SSO User Principals.

IAMDeveloper

o Description: Read Only Access to IAM, and full access to S3 for uploading custom policies

IAMAdministrator

Description: Default Role for Administering IAM Resources

IAMArchitect

o **Description:** Read only Access for review of custom policies created by IAM Developers

CloudOperations

Description:

CloudEngineer

o **Description:** Permission to develop cloud applications using cloudformation

• CloudDeveloper

O Description: role for enabling cloud development with defined set of aws services/resources

• SecurityComplianceEngineer

Description: Enumeration actions for performing Security Auditing

• DatabaseEngineer

 Description: Full access to defined storage and database services/resources for database enginering

NetworkEngineer

Description: AWS NetworkAdministrator managed policy for handling AWS Network rescources

DevSecOpsEngineer

 Description: Permissions for handling development operations of cloud infrastructure and resources

• Billing

O Description: Billing Access including Cost Explorer and Billing Dashboards/events

