**Cloudpacity Backup Purge Documentation**

# Overview

The Cloudpacity Backup Purge facility provides an AWS Lambda based function that will purge AMIs or Snapshots that are beyond the number of retention days specified by a tag (default BackupRetentionDays

# Functional Summary

**Selection of Instances:** All AMIs and snapshots in the AWS account the lambda function is run in will be identified as a purge target IF the tag for backup retention is specified.

# Installation

1. Upload the project jar file into an AWS S3 bucket of your choosing. It can be found in the project root directory (cloudpacity-backup-purge-<version>.jar): <https://github.com/AsperitasConsulting/CloudpacityAWSBackupPurge/tree/master/cloudpacity-backup-purge>
2. Download the AWS CloudFormation script in the scripts directory: <https://github.com/AsperitasConsulting/CloudpacityAWSBackupPurge/blob/master/cloudpacity-backup-purge/scripts/CloudpacityBackupPurgeServiceCreation-CF.yaml>

3. Run AWS CloudFormation script CloudpacityBackupServiceCreation-CF.yaml and enter the following parameters:

BackupPurgeLambdaFunctionName – The name you give the Lambda function for the Backup Purge job

BackupPurgeRoleName – the name of the role that will be created for the Backup Purge Lambda function

NotificationEmail – the email to be notified when the job completes

S3CodeBucket – the bucket where the Backup Purge jar is located

S3CodeKey – the filename of the jar in the bucket e.g. cloudpacity-backup-purge-<version>.jar

Schedule – the schedule on which the Backup job should be run. Format rate(x minutes), rate(x hours), rate(x days), cron(<mins> <hours> <day of month> <month> <day of week> <year>) e.g. cron(0 12 ? \* SUN-SAT \*) represents everyday at noon

# Architecture

Singe Lambda function

# EC2 Instance Tags

***BackupRetentionDays*** (required)- determines the number of days that the AMI or snapshot will be retained. This will override the default retention days (365) or BackupRetentionDays environment variable (see below).

# Lambda Environment Variables

The following environment variables can be specified for the Lambda function to override default behavior.

***SnsArn*** ***(optional)***– the AWS arn of the SNS topic that should be notified when this job completes. Environment variable is created via the CloudFormation installation script.

***BackupRetentionDays (optional)*** – override the default BackupRetentionDays (currently 365 days). This will NOT override the BackupRetentionDays tag specified on each AMI or Snapshot.

***Filter1TagName (optional)*** – the name of the tag to filter the AMIs or Snapshots on. E.g. “Name”, etc.

***Filter1TagValue (optional)*** – the value of the tag to filter the AMIs or Snapshots on. e.g. “MyInstance”, etc. You can also specify wild cards in the tag value e.g. \*copied\*

***Filter2TagName (optional)*** – the name of the tag to filter the AMIs or Snapshots on. E.g. “Name”, etc.

***Filter2TagValue (optional)*** – the value of the tag to filter the AMIs or Snapshots on. e.g. “MyInstance”, etc. You can also specify wild cards in the tag value e.g. \*copied\*

***Filter3TagName (optional)*** – the name of the tag to filter the AMIs or Snapshots on. E.g. “Name”, etc.

***Filter3TagValue (optional)*** – the value of the tag to filter the AMIs or Snapshots on. e.g. “MyInstance”, etc. You can also specify wild cards in the tag value e.g. \*copied\*