***Task details: Take backup of the instances using AWS Lambda. (Need to take image of the instances incremental).***

**ec2-backup**

This Lambda function performs snapshot backups of EC2 instances with custom retention schemes based on tags defined against those instances

**Installation**

**IAM Policy Document**

The Lambda function requires the following permissions:

* ec2:DescribeInstances
* ec2:DescribeVolumes
* ec2:CreateSnapshot
* ec2:DeleteSnapshot
* ec2:DescribeSnapshots
* ec2:CreateTags

These can be defined in IAM with the following policy document.

{

"Version": "2012-10-17",

"Statement": [

{

"Effect": "Allow",

"Action": [

"logs:\*"

],

"Resource": "arn:aws:logs:\*:\*:\*"

},

{

"Effect": "Allow",

"Action": "ec2: Describe\*",

"Resource": "\*"

},

{

"Effect": "Allow",

"Action": [

"ec2: CreateSnapshot",

"ec2: DeleteSnapshot",

"ec2: CreateTags"

"Resource": [

"\*"

]

},

]

}

**Configuration**

At the top of the script, a there are a number of configuration directives:

* regions (default: [region where Lambda function is running]) - list of regions to snapshot
* retention\_days (default: 2) - integer number of days to keep snapshots. This is overridden by specifying ‘ec2\_backup\_count' tag on the VM with an integer of the number of backups to retain.

**Configuring EC2 Instances for Backup**

Each instance you wish to backup requires the following two tags:

* **ec2\_backup\_enabled:** Must be set to true to enable backups to be taken.
* **ec2\_backup\_count:** Specifies the number of daily backups to retain.