

Cloud Q Quick Start

Provisioning Instance Functions

Dack Busch, July 26th, 2022

Overview

The Provisioning instance is an m5.large EC2 instance with customer user data. It configures the Qumulo Cluster and additional AWS environment requirements. The user data for this instance is executed on every boot cycle. During stack updates the provisioning instance will restart if required and shutdown when complete. The lists below highlight the major tasks of the provisioning instance.

Qumulo Configuration

- Software upgrades of QSTACK created nodes
- Forms the first quorum for the cluster
- Assigns Floating IP addresses to the cluster
- Configures Sidecar username, password, and custom RBAC role
- Configures Audit Logging for CloudWatch Logs
- Changes the admin password

AWS Configuration

- Checks for S3 reachability
- Checks for public internet reachability with a CURL test to trends.qumulo.com
- Assigns a QSTACK Policy to protect the cluster in subsequent Stack Updates
- Edits the KMS CMK Policy so Sidecar can create CMK encrypted volumes
- Configures EBS gp3 volume throughput and IOPS
- Tags EBS volumes with the stack name and volume type
- Tracks software versions, cluster IPs, instance IDs, & UUID in AWS Parameter Store
- Tracks the provisioning instance 'last-run-status' in Parameter Store
- Configures Termination Protection for the Stack and the EC2 Instances

This instance automatically shuts down upon completion of its provisioning tasks.

Do not delete this EC2 instance. It will be used during stack updates.

