Security groups

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic.

ACL

An ACL is an optional layer of security that acts as a firewall for controlling traffic in and out of a subnet.

The difference between ACL and a Security Group is that ACL is used within a network environment and Security Groups are used within a virtual environment, however the thing they share in common is that they are both security firewalls that control traffic.

Bastian Host

A bastion host is a specialized computer that is deliberately exposed on a public network.

From a secured network perspective, it is the only node exposed to the outside world and is therefore very prone to attack.

The bastion host processes and filters all incoming traffic and prevents malicious traffic from entering the network, and acts like a gateway.

Inbound rules

**This is used to allow the Mongo database to receive updates**

Custom TCP Rule, TCP (6), 1024 - 65535, 10.22.1.0/24, ALLOW

It will try to connect to any port between 1024 and 65535.

### Mongo database to receive requests for data

Custom TCP Rule, TCP (6), 27017, 10.22.1.0/24, ALLOW

Outbound rules

### Allowing the Mongo database to send data requests.

Custom TCP Rule, TCP (6), 27017, 10.22.1.0/24, ALLOW

### Mongo database to request updates

Custom TCP Rule, TCP (6), 1024 - 65535, 0.0.0.0/0, ALLOW