Additional configuration

This section describes additional configuration options for Redis Enterprise Software installation.

AWS Route53 DNS management

Redis Enterprise Software requires DNS to be properly configured to achieve high availability and fail-over regardless of where it is installed. Here, you learn how to configure AWS Route53 DNS resolution. Prerequisites You need to have a domain name registered. Then, either you need to have Amazon's Route53 as the primary/master nameserver (NS) for this domain or for a delegated zone under this domain. Finally, you need to have the zone (either the whole domain or a sub-zone) defined in AWS Route53.

Configure CentOS/RHEL 7 Firewall

CentOS/RHEL7 distributions have, by default, a restrictive firewall mechanism based on firewalld that in turn configures the standard iptables system. The default configuration assigns the network interfaces to the public zone and blocks all ports, except 22 (SSH). Redis Enterprise Software (RS) installation on CentOS/RHEL 7 automatically creates two firewall system services: A service named redislabs, which includes all ports and protocols needed for communications between cluster nodes. A service named redislabs-clients, which includes the ports and protocols needed for communications external to the cluster.

Configure Cluster DNS

By default, Redis Enterprise Software deployments use DNS to communicate between nodes. You can also use the Discovery Service, which uses IP addresses to connect and complies with the Redis Sentinel API supported by open source Redis. Each node in a Redis Enterprise cluster includes a small DNS server to manage internal functions, such as high availability, automatic failover, automatic migration, and so on. Nodes should only run the DNS server included with the software.

Set up cluster behind a load balancer

When you want to setup a Redis Enterprise cluster in an environment that doesn’t allow DNS, you can use a load balancer (LB) to direct traffic to the cluster nodes. DNS role for databases Normally, Redis Enterprise uses DNS to provide dynamic database endpoints. A DNS name such as redis-12345.clustername.domain gives clients access to the database resource: If multiple proxies are in use, the DNS name resolves to multiple IP addresses so that clients can load balance.

Configure Swap for Linux

Swap space is used by the Linux OS to help manage memory (pages) by copying pages from RAM to disk and the OS is configured by default to be fairly aggressive. For Redis Enterprise Software (RS) with the way it utilizes and manages memory, it is best to eliminate the likelihood of the OS swapping. If you would like to understand why, please read more on how RS manages memory for best functionality and performance.

Client Prerequisites for mDNS

Note: mDNS is only supported for development and testing environments. If you choose to use the mDNS protocol when you set the cluster name, make sure that the configurations and prerequisites for resolving database endpoints are met on the client machines. If you have Replica Of databases on the cluster, the configurations and prerequisites are also required for the Redis Enterprise Software nodes. To prepare a client or node for mDNS:
Change socket file locations

There are two default locations for the socket files in Redis Enterprise Software (RS): /tmp - In clean installations of RS version lower than 5.2.2 /var/opt/redislabs/run - In clean installations of RS version 5.2.2 and higher We made this change because some customers have maintenance procedures that delete the /tmp directory. When you upgrade from a RS version lower than 5.2.2 to 5.2.2 and higher, the socket files are not moved to the new location by default.

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