# 创建单机版Redis集群（三主三从）

# 1 作业要求

搭建 Redis Cluster ，将搭建步骤输出文档

# 2 作业

## 2.1 搭建环境

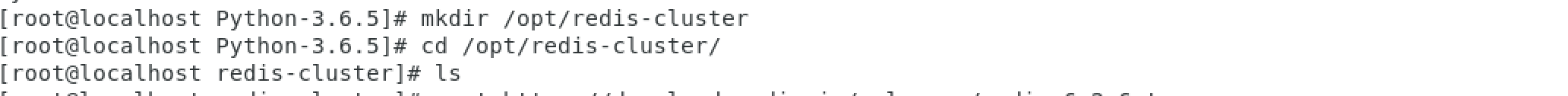
VMware Fusion 虚拟机（Centos-7）

## 2.2 搭建步骤

### 2.2.1安装Redis

a.创建用于环境部署的目录结构

操作命令：mkdir /opt/redis-cluster



b.下载Redis压缩包

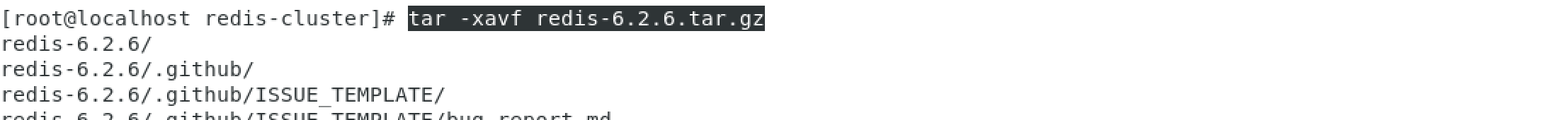
操作命令：wget <https://download.redis.io/releases/redis-6.2.6.tar.gz>

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c.解压压缩包

操作命令：tar -xavf redis-6.2.6.tar.gz



d.安装编译工具

操作命令：yum install maker gcc

图形用户界面, 文本

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e.编译Redis

操作命令：make && make install

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### 2.2.2 安装集群Redis

#### 2.2.2.1 创建集群文件夹

操作命令：mkdir workspaces

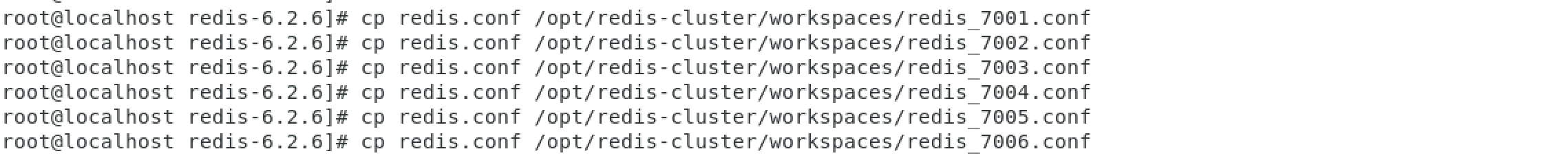


#### 2.2.2.2 配置redis.conf文件

复制/opt/redis-cluster/redis-6.2.6/redis.conf到/opt/redis-cluster/workspaces

操作命令：

|  |
| --- |
| cp redis.conf /opt/redis-cluster/workspaces/redis\_7001.conf  cp redis.conf /opt/redis-cluster/workspaces/redis\_7002.conf  cp redis.conf /opt/redis-cluster/workspaces/redis\_7003.conf  cp redis.conf /opt/redis-cluster/workspaces/redis\_7004.conf  cp redis.conf /opt/redis-cluster/workspaces/redis\_7005.conf  cp redis.conf /opt/redis-cluster/workspaces/redis\_7006.conf |



2 编辑配置文件

|  |
| --- |
| 编辑/opt/redis-cluster/workspaces/redis\_7001.conf  设置服务端口：port 7001  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis\_7001.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7001.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7001.conf  集群超时时间：cluster-node-timeout 5000    3.编辑/opt/redis-cluster/workspaces/redis\_7002.conf  设置服务端口：port 7002  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis\_7002.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7002.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7002.conf  集群超时时间：cluster-node-timeout 5000    4.编辑/opt/redis-cluster/workspaces/redis\_7003.conf  设置服务端口：port 7003  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis/redis\_7003.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7003.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7003.conf  集群超时时间：cluster-node-timeout 5000    5.编辑/opt/redis-cluster/workspaces/redis\_7004.conf  设置服务端口：port 7004  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis\_/redis\_7004.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7004.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7004.conf  集群超时时间：cluster-node-timeout 5000    6.编辑/opt/redis-cluster/workspaces/redis\_7005.conf  设置服务端口：port 7005  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis/redis\_7005.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7005.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7005.conf  集群超时时间：cluster-node-timeout 5000    7.编辑/opt/redis-cluster/workspaces/redis\_7006.conf  设置服务端口：port 7006  解除本机绑定：# bind 127.0.0.1 -::1  守护方式启动：daemonize yes  设置pid路径：pidfile /opt/redis-cluster/workspaces/redis\_/redis\_7006.pid  设置存储路径：dir /opt/redis-cluster/workspaces  设置连接密码：requirepass 123456  AOF方式持久化：appendonly yes  AOF存储文件名：appendfilename "appendonly\_7006.aof"  AOF持久化策略：appendfsync always  开启集群：cluster-enabled yes  集群Node名称：cluster-config-file nodes\_7006.conf  集群超时时间：cluster-node-timeout 5000 |

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#### 2.2.2.3创建集群

启动Redis服务

操作命令：

|  |
| --- |
| redis-server redis\_7001.conf  redis-server redis\_7002.conf  redis-server redis\_7003.conf  redis-server redis\_7004.conf  redis-server redis\_7005.conf  redis-server redis\_7006.conf |



创建集群

操作命令：

|  |
| --- |
| redis-cli -a 123456 --cluster create --cluster-replicas 1 172.16.231.146:7001 172.16.231.146:7002 172.16.231.146:7003 172.16.231.146:7004 172.16.231.146:7005 172.16.231.146:7006 |

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#### 2.2.2.4启动集群

操作指令：

|  |
| --- |
| 启动集群节点  redis-server redis\_7001.conf  redis-server redis\_7002.conf  redis-server redis\_7003.conf  redis-server redis\_7004.conf  redis-server redis\_7005.conf  redis-server redis\_7006.conf  查询集群状态  ps -ef | grep -i redis |

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#### 2.2.2.5 测试集群

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#### 2.2.2.6 文件存放路径

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