

Installing and Configuring Redis

- 1) Get Latest Redis source from <https://download.redis.io/releases/redis-6.2.6.tar.gz>

```
[ec2-user@ip-172-31-91-13 ~]$ wget https://download.redis.io/releases/redis-6.2.6.tar.gz
--2022-04-16 01:13:23-- https://download.redis.io/releases/redis-6.2.6.tar.gz
Resolving download.redis.io (download.redis.io)... 45.60.121.1
Connecting to download.redis.io (download.redis.io)|45.60.121.1|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2476542 (2.4M) [application/octet-stream]
Saving to: 'redis-6.2.6.tar.gz'

100%[=====] 2,476,542 --.-K/s in 0.08s

2022-04-16 01:13:23 (30.3 MB/s) - 'redis-6.2.6.tar.gz' saved [2476542/2476542]

[ec2-user@ip-172-31-91-13 ~]$ ls
redis-6.2.6.tar.gz
```

- 2) Extract the components: tar -xzf redis-6.2.6.tar.gz

```
[ec2-user@ip-172-31-91-13 ~]$ tar -xzf redis-6.2.6.tar.gz
[ec2-user@ip-172-31-91-13 ~]$ ls
redis-6.2.6  redis-6.2.6.tar.gz
[ec2-user@ip-172-31-91-13 ~]$
```

- 3) Browse to the directory using the cd redis-6.2.6 command

```
[ec2-user@ip-172-31-91-13 ~]$ cd redis-6.2.6/
[ec2-user@ip-172-31-91-13 redis-6.2.6]$ ls
00-RELEASENOTES  CONDUCT  COPYING  INSTALL  MANIFESTO  redis.conf  runtest-cluster  runtest-sentinel  src  TLS.md
BUGS             CONTRIBUTING  deps  Makefile  README.md  runtest      runtest-moduleapi  sentinel.conf  tests  utils
[ec2-user@ip-172-31-91-13 redis-6.2.6]$
```

- 4) Execute sudo yum groupinstall 'Development Tools'

```
[ec2-user@ip-172-31-91-13 redis-6.2.6]$ sudo yum groupinstall 'Development Tools'
```

- 5) Execute sudo yum install gcc make

```
[ec2-user@ip-172-31-91-13 redis-6.2.6]$ sudo yum install gcc make
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package 1:make-3.82-24.amzn2.x86_64 already installed and latest version
Resolving Dependencies
--> Running transaction check
--> Package gcc.x86_64 0:7.3.1-13.amzn2 will be installed
--> Processing Dependency: cpp = 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libsanitizer >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libquadmath >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libmpx >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libitm >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libcilkrts >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: libatomic >= 7.3.1-13.amzn2 for package: gcc-7.3.1-13.amzn2.x86_64
--> Processing Dependency: glibc-devel >= 2.2.90-12 for package: gcc-7.3.1-13.amzn2.x86_64
|
```

Press y

```

Total download size: 36 M
Installed size: 95 M
Is this ok [y/d/N]: y
Downloading packages:
(1/13): cpp-7.3.1-13.amzn2.x86_64.rpm | 9.2 MB 00:00:00
(2/13): glibc-devel-2.26-58.amzn2.x86_64.rpm | 994 kB 00:00:00
(3/13): glibc-headers-2.26-58.amzn2.x86_64.rpm | 514 kB 00:00:00
(4/13): libatomic-7.3.1-13.amzn2.x86_64.rpm | 46 kB 00:00:00
(5/13): libcilkrts-7.3.1-13.amzn2.x86_64.rpm | 85 kB 00:00:00
(6/13): libitm-7.3.1-13.amzn2.x86_64.rpm | 84 kB 00:00:00
(7/13): libmpc-1.0.1-3.amzn2.0.2.x86_64.rpm | 52 kB 00:00:00
(8/13): libmpx-7.3.1-13.amzn2.x86_64.rpm | 51 kB 00:00:00
(9/13): libquadmath-7.3.1-13.amzn2.x86_64.rpm | 189 kB 00:00:00
(10/13): gcc-7.3.1-13.amzn2.x86_64.rpm | 22 MB 00:00:00
(11/13): libsanitizer-7.3.1-13.amzn2.x86_64.rpm | 641 kB 00:00:00
(12/13): kernel-headers-5.10.106-102.504.amzn2.x86_64.rpm | 1.4 MB 00:00:00
(13/13): mpfr-3.1.1-4.amzn2.0.2.x86_64.rpm | 208 kB 00:00:00
-----
Total | 44 MB/s | 36 MB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : mpfr-3.1.1-4.amzn2.0.2.x86_64 1/13
Installing : libmpc-1.0.1-3.amzn2.0.2.x86_64 2/13
Installing : cpp-7.3.1-13.amzn2.x86_64 3/13
Installing : libitm-7.3.1-13.amzn2.x86_64 4/13
Installing : libmpx-7.3.1-13.amzn2.x86_64 5/13
Installing : kernel-headers-5.10.106-102.504.amzn2.x86_64 [#####] 6/13

```

- 6) Execute `sudo make`. This step takes some time. Please wait

```

[ec2-user@ip-172-31-91-13 redis-6.2.6]$ sudo make
cd src && make all
make[1]: Entering directory `/home/ec2-user/redis-6.2.6/src'
CC Makefile.dep
|

```

At the end you should find the following message:

```

CC gopher.o
CC tracking.o
CC connection.o
CC tls.o
CC sha256.o
CC timeout.o
CC setcpuaaffinity.o
CC monotonic.o
CC mt19937-64.o
LINK redis-server
INSTALL redis-sentinel
CC redis-cli.o
CC cli_common.o
LINK redis-cli
CC redis-benchmark.o
LINK redis-benchmark
INSTALL redis-check-rdb
INSTALL redis-check-aof

Hint: It's a good idea to run 'make test' ;)

make[1]: Leaving directory `/home/ec2-user/redis-6.2.6/src'
[ec2-user@ip-172-31-91-13 redis-6.2.6]$

```

- 7) Execute `sudo yum install tcl`

```
[ec2-user@ip-172-31-91-13 redis-6.2.6]$ sudo yum install tcl
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Resolving Dependencies
--> Running transaction check
--> Package tcl.x86_64 1:8.5.13-8.amzn2.0.2 will be installed
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Installing:
tcl x86_64 1:8.5.13-8.amzn2.0.2 amzn2-core 1.9 M
=====

Transaction Summary
=====
Install 1 Package
=====

Total download size: 1.9 M
Installed size: 4.4 M
Is this ok [y/d/N]: y
```

- 8) Execute `sudo make test`. This step will take some time. Please wait. Once completed you should see this message. In case you don't see this message, **run this command again**.

```
1 seconds - unit/tls
64 seconds - integration/redis-cli
2 seconds - unit/tracking
157 seconds - unit/type/list-2
2 seconds - unit/shutdown
2 seconds - unit/oom-score-adj
1 seconds - unit/networking
47 seconds - unit/memefficiency
179 seconds - unit/type/zset
73 seconds - unit/obuf-limits
49 seconds - unit/pendingquerybuf
123 seconds - unit/scripting
183 seconds - integration/replication-4
187 seconds - integration/replication-3
193 seconds - integration/replication-psync
238 seconds - unit/type/stream
122 seconds - unit/hyperloglog
207 seconds - north
226 seconds - unit/maxmemory
334 seconds - integration/replication
114 seconds - defrag

\o/ All tests passed without errors!

Cleanup: may take some time... OK
make[1]: Leaving directory `/home/ec2-user/redis-6.2.6/src'
[ec2-user@ip-172-31-91-13 redis-6.2.6]$
```

- 9) Execute `sudo make test install`. This command will make redis commands available across the system. You can run redis commands from anywhere in your machine
- 10) Browse to `/home/ec2-user/redis-6.2.6` and edit the `redis.conf` file


```
[ec2-user@ip-172-31-94-199 ~]$ redis-cli  
127.0.0.1:6379> keys *  
1) "Student"  
2) "Student:Eng2015001"  
127.0.0.1:6379> |
```