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## Redhat / CentOS Install Memcached Caching System

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How do I install **memcached** a high-performance, distributed **memory object caching system**, generic in nature, but intended for use in speeding up dynamic web applications by alleviating database load under CentOS / RHEL / Fedora / Redhat Linux?

Memcached is very fast caching system for MySQL. It uses libevent or epoll (Linux runtime) to scale to any number of open connections and uses non-blocking network I/O.



[1]



[2]

### Required Packages

1. **memcached** : High Performance, Distributed Memory Object Cache.
2. **memcached-selinux** : SELinux policy module supporting memcached.
3. **perl-Cache-Memcached** : Perl client for memcached.
4. **php-pecl-memcache** : Php client / extension to work with the Memcached caching daemon.
5. **python-memcached** : A Python memcached client library.



[3]

### Step # 1: Turn on EPEL Repo

Type the following command to enable EPEL repo which carries required memcache packages.

```
rpm -Uvh http://download.fedora.redhat.com/pub/epel/5/i386/epel-release-5-3.noarch.rpm
```

See this [FAQ](#) <sup>[4]</sup> for further details.

### Step # 2: Install memcached

Type the following command to install memcached with php extension:

```
# yum install memcached php-pecl-memcache memcached-selinux
```

Sample outputs:

```
Loaded plugins: downloadonly, rhnplugin, security, verify
Setting up Install Process
Resolving Dependencies
--> Running transaction check
---> Package memcached.x86_64 0:1.2.8-1.el5 set to be updated
--> Finished Dependency Resolution
```

Dependencies Resolved

Package	Arch	Version
Installing:		
memcached	x86_64	1.2.8-1.el5

Transaction Summary

Install	1 Package(s)
Update	0 Package(s)
Remove	0 Package(s)

```
Total download size: 60 k
Is this ok [y/N]: y
Downloading Packages:
```

```

memcached-1.2.8-1.el5.x86_64.rpm
Running rpm_check_debug
Running Transaction Test
Finished Transaction Test
Transaction Test Succeeded
Running Transaction
  Installing      : memcached

Installed:
  memcached.x86_64 0:1.2.8-1.el5

Complete!

```

### Step # 3: Configure memcached

Edit /etc/sysconfig/memcached, enter:

```
# vi /etc/sysconfig/memcached
```

Update it as follows:

```

PORT="11211"
USER="memcached"
# max connection 2048
MAXCONN="2048"
# set ram size to 2048 - 2GiB
CACHE_SIZE="4096"
# listen to loopback ip 127.0.0.1, for network connection use real ip e.g., 10.0.0.4
OPTIONS="-l 127.0.0.1"

```

The above will start memcached up as a daemon, using 4GB of memory, and listening on IP 127.0.0.1, port 11211. Save and close the file.

### Step # 4: Run memcached

Type the following command to start memcached, enter:

```

# chkconfig memcached on [5]
# service memcached start [6]

```

To stop / restart use the following commands:

```

# service memcached stop [6]
# service memcached restart [6]

```

## How Do I See Memory Memcached Slabs?

Type the following command:

```

# memcached-tool IP_ADDRESS:Port
# memcached-tool IP_ADDRESS:Port display
# memcached-tool 127.0.0.1:11211

```

Sample outputs:

#	Item_Size	Max_age	1MB_pages	Count	Full?
1	104 B	5134 s	1	10	no
2	136 B	5135 s	1	40	no
3	176 B	0 s	1	0	no
4	224 B	2648 s	1	7	no
8	552 B	1810 s	1	12	no
9	696 B	1810 s	1	6	no
10	872 B	2935 s	1	8	no
11	1.1 kB	4262 s	1	18	no
12	1.3 kB	2990 s	1	23	no

13	1.7 kB	2434 s	1	22	no
14	2.1 kB	3489 s	1	11	no
15	2.6 kB	2964 s	1	16	no
16	3.3 kB	2861 s	1	14	no
17	4.1 kB	2076 s	1	5	no
18	5.2 kB	2981 s	1	5	no
20	8.1 kB	64 s	1	1	no
21	10.1 kB	1865 s	1	3	no
29	60.2 kB	1550 s	1	2	no

## How Do I See Memory Memcached Stats?

Type the following command:

```
# memcached-tool IP_Address:Port stats
# memcached-tool 127.0.0.1:11211 stats
```

Sample outputs:

```
#127.0.0.1:11211  Field      Value
                  accepting_conns  1
                  bytes      399395
                  bytes_read  504797
                  bytes_written 17313658
                  cmd_flush   0
                  cmd_get     1141
                  cmd_set     248
connection_structures  9
curr_connections      5
curr_items            205
evictions             0
get_hits              898
get_misses            243
limit_maxbytes        1073741824
listen_disabled_num   0
pid                   40159
pointer_size          64
rusage_system         0.227965
rusage_user           0.034994
threads               5
time                  1255803547
total_connections     344
total_items           259
uptime                5829
version               1.2.8
```

Further readings:

- [Memcached project](#) <sup>[7]</sup>

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[4] FAQ: <http://www.cyberciti.biz/faq/rhel-fedora-centos-linux-enable-epel-repo/>

[5] chkconfig memcached on: <http://www.cyberciti.biz/faq/check-running-services-in-rhel-redhat-fedora-centoslinux/>

[6] service memcached start: <http://www.cyberciti.biz/faq/linux-determine-which-services-are-enabled-at-boot/>

[7] Memcached project: <http://www.danga.com/memcached/>

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