



# INSTALL SEPARATE MEMCACHE SERVER (SESSION) FOR MOODLE ON CENTOS 7

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## SCENARIO

We want to store session in a different server for our 2 web clients in the cluster

So we have 3 servers:

```
session=10.10.1.29 (session server)
web1=10.10.1.21
web2=10.10.1.22
```

## SERVER (session:10.10.1.29)

```
$ sudo yum update
$ sudo yum install memcached
$ sudo vi /etc/sysconfig/memcached
PORT="11211"
USER="memcached"
MAXCONN="1024"
CACHESIZE="64"
OPTIONS=""
```



start memcached

```

$ sudo systemctl start memcached
$ sudo systemctl enable memcached
$ sudo systemctl restart memcached (if needed later
$ sudo firewall-cmd --permanent --zone=public --add-port=11211/tcp
$ sudo firewall-cmd --reload

```

confirm memcached running status

```
$ memcached-tool 127.0.0.1:11211 stats
```

check the remote connectivity from another server, it should run

```

$ echo stats | nc session 11211
$ echo stats | nc 10.10.1.29 11211

```

## CLIENT

install memcached PHP module to work with PHP5

```
$ sudo yum install php-memcached
```

check if memcached exists

```
$ php -i | grep memcached
```

uncomment save\_handler to force it seen in phpinfo()

```

$ sudo vi /etc/php.d/z-memcached.ini
session.save_handler=memcached

```

restart memcached on the server and nginx & php-fpm on each web client

```

$ sudo systemctl restart memcached (on server)
$ sudo systemctl restart nginx
$ sudo systemctl restart php-fpm
$ sudo systemctl restart httpd (if apache)

```

put info.php file under each web server /usr/share/nginx/html/info.php

```
$ sudo vi /usr/share/nginx/html/info.php
```

Now you should see memcached library in each part

<http://10.10.1.21/info.php> (<http://10.10.1.21/info.php>)  
<http://10.10.1.22/info.php> (<http://10.10.1.22/info.php>)

# TEST



implement a test script

```
$ sudo vi /usr/share/nginx/html/testmemcached.php
```

```
<?php
$mc = new Memcached();
$mc->addServer("10.10.1.29", 11211);
$result = $mc->get("test_key");
if($result) {
echo $result;
} else {
echo "No data on Cache. Please refresh page pressing F5";
$mc->set("test_key", "test data pulled from Cache!") or die ("Failed
to save data at Memcached server");
}

?>
```

go to web1 and web2 directly

<http://10.10.1.21/testmemcached.php> (<http://10.10.1.21/testmemcached.php>)  
<http://10.10.1.22/testmemcached.php> (<http://10.10.1.22/testmemcached.php>)

Finally go to the config.php in moodle and enable the session handler block

```
$ sudo vi /usr/share/nginx/html/config.php
```

```
// Memcached session handler (requires memcached server and extensio
$CFG->session_handler_class = '\core\session\memcached';
$CFG->session_memcached_save_path = '127.0.0.1:11211';
$CFG->session_memcached_prefix = 'memc.sess.key.';
$CFG->session_memcached_acquire_lock_timeout = 120;
$CFG->session_memcached_lock_expire = 7200; // Ignored if PECL memca
```



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