

# 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

\$ <del>sudo systemetl enable memcached</del>

\$<del>-sudo systemetl restart memcached</del> (if needed later 🧲

\$ sudo firewall-cmd –permanent –zone=public –add-port=11211/tcp

\$ sudo firewall-emd -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**

6/13/2017

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)



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

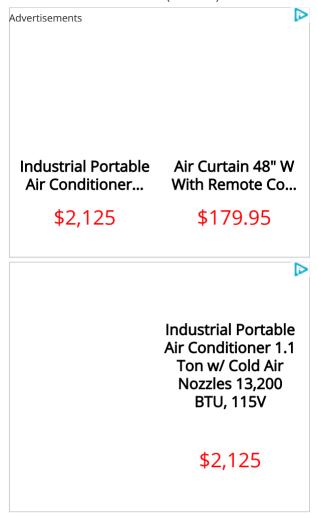
http://10.10.1.21/testmemcached.php (http://10.10.1.21/testmemcached.php) http://10.10.1.22/testmemcached.php (http://10.10.1.22/testmemcached.php)

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 extensic
$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
```

https://snapdev.net/2015/10/26/install-separate-memcache-server-session-for-moodle-on-centos-7/



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