# OpenStack-Ansible Documentation: memcached\_server role

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#### MAKING MEMCACHED HIGHLY-AVAILABLE

By default Memcached servers are deployed on each controller host as a part of *shared-infra\_containers* group. Drivers, like oslo\_cache.memcache\_pool support marking memcache backends as dead, however not all services allow you to select driver which will be used for interaction with Memcached. In the meanwhile you may face services API response delays or even unresponsive APIs while one of the memcached backends is down. Thats why you may want to use HAProxy for handling access and check of backend aliveness.

### 1.1 Configuring Memcached through HAProxy

Setting haproxy in front of the Memcached servers and relying it in checking aliveness of the backends gives more reliable failover and minimize delays in case of backend failure. We need to define the following in your user\_variables.yml:

After setting that you need to update haproxy and all services configuration to use new memcached backend:

```
# openstack-ansible playbooks/haproxy-install.yml
# openstack-ansible playbooks/setup-openstack.yml
```

Ansible role to install and configure Memcached.

To clone or view the source code for this repository, visit the role repository for memcached\_server.



### **DEFAULT VARIABLES**

```
## Logging level
debug: False
## APT Cache Options
cache_timeout: 600
# Set the package install state for distribution packages
# Options are 'present' and 'latest'
memcached_package_state: "latest"
# MemcacheD could set 'PrivateDevices=True' for its systemd unit by default.
→when
# installed into a container. This provides some additional security, but it
# causes problems with creating mount namespaces on CentOS 7 with systemd 219.
# While the security enhancements are helpful on bare metal hosts with
# multiple services running, they are not as helpful when MemcacheD is running
# in a container with its own isolated namespaces.
# Related bugs:
  https://bugs.launchpad.net/openstack-ansible/+bug/1697531
   https://github.com/lxc/lxc/issues/1623
  https://github.com/systemd/systemd/issues/6121
# Setting the following variable to 'yes' will disable the PrivateDevices
# setting in the systemd unit file for MemcacheD on CentOS 7 hosts.
memcached_disable_privatedevices: "{{ ansible_facts['pkg_mgr'] == 'dnf' }}"
# The default memcache memory setting is to use .25 of the available system.
# as long as that value is < 8192. However you can set the `memcached_memory`
# value to whatever you like as an override.
base_memcached_memory: "{{ ansible_facts['memtotal_mb'] | default(4096) }}"
memcached_memory: "{{ base_memcached_memory | int // 4 if base_memcached_
→memory | int // 4 < 8192 else 8192 }}"</pre>
memcached_port: 11211
memcached_listen: "127.0.0.1"
memcached connections: 4096
```

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```
memcached_threads: 4
memcached_file_limits: "{{ memcached_connections | int + 1024 }}"
install_test_packages: False
```

# CHAPTER THREE

## **REQUIRED VARIABLES**

None



### **CHAPTER**

### **FOUR**

### **EXAMPLE PLAYBOOK**

```
- name: Install Memcached
hosts: memcached
user: root
roles:
    - { role: "memcached_server" }
```