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Name	Memcache: Pymemcache
URL	https://www.attackdefense.com/challengedetails?cid=221
Туре	Infrastructure Attacks: Memcached

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

## Q1. What is the data stored with key "user"?

Answer: joe

### Command:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) client.get("user")

## Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));print client.get("user");'

student@attackdefense:~\$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));print client.get("user");'
joe
student@attackdefense:~\$

## Q2. What is the value of complex number stored in key "complex"?

Answer: 4+3j



#### Commands:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) import pickle pickle.loads(client.get("complex"))

## Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print pickle.loads(client.get("complex"))'

student@attackdefense:~\$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print pickle.loads(client.get("complex"))'
(4+3j)

## Q3. How many keys value pairs are present on the memcache server?

Answer: 9

#### Commands:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) client.stats()['curr\_items']

## Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211)); print client.stats()["curr\_items"]'

student@attackdefense:~\$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211)); print client.stats()["curr\_items"]'

## Q4. What is the flag among the key values pairs in memcache server?

**Answer:** fl4g\_f0r\_m3mcach3

#### Commands:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) import pickle pickle.loads(client.get("flag"))



## Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print pickle.loads(client.get("flag"));'

student@attackdefense:~\$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print pick
e.loads(client.get("flag"));'
fl4g\_f0r\_m3mcach3

## Q5. What is the class of data stored in key "fraction"?

**Answer:** fractions.Fraction

#### Commands:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) import pickle type(pickle.loads(client.get("fraction"))["value"])

### Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print type(pickle.loads(client.get("fraction"))["value"]);'

```
student@attackdefense:~$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pickle; print type(
pickle.loads(client.get("fraction"))["value"]);'
<class 'fractions.Fraction'>
student@attackdefense:~$
```

# Q6. What are the name of keys present in slab with id 1? (Provide comma separated values)

Answer: id,name,number,password,status,user

#### Commands:

from pymemcache.client.base import Client client = Client(('localhost', 11211)) import pprint pp = pprint.PrettyPrinter(indent=4) pp.pprint(client.stats("cachedump","1","100"))



## Python one-liner:

python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pprint; pp = pprint.PrettyPrinter(indent=4); pp.pprint(client.stats("cachedump","1","100"));'

```
student@attackdefense:~$ python -c 'from pymemcache.client.base import Client; client = Client(("127.0.0.1", 11211));import pprint; pp = pprint
.PrettyPrinter(indent=4); pp.pprint(client.stats("cachedump","1","100"));'
{ 'id': '[1 b; 0 s]',
    'name': '[6 b; 0 s]',
    'number': '[10 b; 0 s]',
    'password': '[12 b; 0 s]',
    'status': '[6 b; 0 s]'}
student@attackdefense:~$
```

## References:

- 1. Memcached (<a href="https://memcached.org/">https://memcached.org/</a>)
- 2. Pymemcache (<a href="https://pypi.org/project/pymemcache/">https://pypi.org/project/pymemcache/</a>)