

[illegible]

Name	Memcache: Basics
URL	https://www.attackdefense.com/challengedetails?cid=219
Type	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.

Connect to memcached server using telnet:

Command: telnet 127.0.0.1 11211

```
student@attackdefense:~$ telnet 127.0.0.1 11211
Trying 127.0.0.1...
Connected to 127.0.0.1.
Escape character is '^['.
```

Q1. What is the version of memcache server?

Answer: Version 1.5.6 Ubuntu

Command: version

```
version
VERSION 1.5.6 Ubuntu
```

Q2. What is the value stored in key "name"?

Answer: edward

Command: get name

```
get name
VALUE name 0 6
edward
END
```

Q3. What is the length of data stored in key “password” ?

Answer: 6

Command: get password

```
get password
VALUE password 0 6
3dw4rd
END
```

Q4. How many key value pairs are present on the server initially?

Answer: 6

Command: stats items

Items: X: number Y signifies that there are Y number of key-value pairs present in slab X.

```
stats items
STAT items:1:number 5
STAT items:1:number_hot 0
STAT items:1:number_warm 0
STAT items:1:number_cold 5
STAT items:1:age_hot 0
STAT items:1:age_warm 0
STAT items:1:age 831
STAT items:1:evicted 0
STAT items:1:evicted_nonzero 0
STAT items:1:evicted_time 0
STAT items:1:outofmemory 0
STAT items:1:tailrepairs 0
STAT items:1:reclaimed 0
STAT items:1:expired_unfetched 0
STAT items:1:evicted_unfetched 0
STAT items:1:evicted_active 0
STAT items:1:crawler_reclaimedd 0
STAT items:1:crawler_items_checked 16
STAT items:1:lru_tail_reflocked 0
STAT items:1:moves_to_cold 5
STAT items:1:moves_to_warm 0
STAT items:1:moves_within_lru 0
STAT items:1:direct_reclaims 0
STAT items:1:hits_to_hot 0
STAT items:1:hits_to_warm 0
STAT items:1:hits_to_cold 2
STAT items:1:hits_to_temp 0
STAT items:2:number 1
```

Q5. What command will you use to increment value of key “id” by 1?

Command: incr id 1

```
get id
VALUE id 0 1
5
END
incr id 1
6
```

Q6. What command will you use to decrement value of key “id” by 3?

Command: decr id 3

```
get id
VALUE id 0 1
6
END
decr id 3
3
```

Q7. What command will you use to add key “phone” with value “123454321” ?

Commands:

```
add phone 0 0 9
123454321
```

```
add phone 0 0 9
123454321
STORED
```

Q8. What command will you use to replace value of key “nick” to “ed” ?

Commands:

```
replace nick 0 0 2
ed
```

```
replace nick 0 0 2
ed
STORED
```

Q9. What command will you use to prepend “house ” to value of key “address” ?

Commands:

```
prepend address 0 0 6
house
```

```
get address
VALUE address 0 30
14, 1234 street, Austin, Texas
END
prepend address 0 0 6
house
STORED
get address
VALUE address 0 36
house 14, 1234 street, Austin, Texas
END
```

Q10. What command will you use to append pin code “,73301” to value of key “address” ?

Commands:

```
append address 0 0 6
,73301
```

```
get address
VALUE address 0 36
house 14, 1234 street, Austin, Texas
END
append address 0 0 6
,73301
STORED
get address
VALUE address 0 42
house 14, 1234 street, Austin, Texas,73301
END
```

Q11. What command will you use to delete key “old_address”?

Command: delete old_address


```
get old_address
VALUE old_address 0 30
30, 2002 street, Dallas, Texas
END
delete old_address
DELETED
get old_address
END
```

Q12. What command will you use to invalidate all key values after 30 seconds?

Command: flush_all 30

```
flush_all 30
OK
```

References:

1. Memcached (<https://memcached.org/>)
2. Memcached Cheat Sheet (<https://lzone.de/cheat-sheet/memcached>)