

# Unittest Report

---

This file contains the results of the conducted unittests belonging to the Portscanner project.

```
C:\Users\COP4-14\PycharmProjects\Portscanner>py tests.py -v
test_TCP_SYN_scan (__main__.MainTests)
The function should conduct a TCP SYN scan to a specific IP address and
write the results to ... Port 20 is closed
Port 21 is closed
Port 22 is open!
Port 23 is closed
Port 24 is closed
Port 25 is closed
ok
test_TCP_connect_scan (__main__.MainTests)
The function should conduct a TCP-Connect scan to a specific IP address
and write the results to ... Port 20 is filtered or closed
Port 21 is filtered or closed
Port 22 is open!
Port 23 is filtered or closed
Port 24 is filtered or closed
Port 25 is filtered or closed
ok
test_UDP_scan (__main__.MainTests)
The function should conduct a UDP scan to a specific IP address and write
the results to ... Port 50 is closed
Port 51 is closed
Port 52 is closed
Port 53 is open or filtered
Port 54 is closed
Port 55 is closed
ok
test_XMAS_scan (__main__.MainTests)
The function should conduct a TCP XMAS scan to a specific IP address and
write the results to ... Port 20 is filtered or open
Port 21 is filtered or open
Port 22 is filtered or open
Port 23 is filtered or open
Port 24 is filtered or open
Port 25 is filtered or open
ok
```

```
test_ask_first_port (__main__.MainTests)
The function should ask the user for input and output an integer between 1
and 65535. ... Please specify the first port in port range: test
ValueError: It has to be an integer.
Please specify the first port in port range: 0
Wrong number, please specify a single port between 1 and 65535: -1
Wrong number, please specify a single port between 1 and 65535: 10
ok
test_ask_host (__main__.MainTests)
The function should ask the user for input and return a string. ... Please
specify the IP-address to scan: test
AddressValueError: Please specify a correct IPv4 address: 192.168.1.1
ok
test_ask_last_port (__main__.MainTests)
The function should ask the user for input and output an integer between 1
and 65535. ... Please specify the last port in port range: test
ValueError: It has to be an integer.
Please specify the last port in port range: 77777
Wrong input, please specify a single port between 1 and 65535: 0
Please enter a number that is equal or higher than the first: -1
Please enter a number that is equal or higher than the first: 20
ok
test_ask_output (__main__.MainTests)
The function should ask the user whether they want to save the scan
results or not. ... Do you want to save the output to a file? (y/n): test
Please enter a 'y' or a 'n': y
Do you want to save the results to JSON or XML?: test
Please enter 'JSON' or 'XML?': json
ok
test_ask_scantype (__main__.MainTests)
The function should ask the user for input and output -sT, -sU, -sS or -
sX. ... Please enter scan type (-sT, -sU, -sS or -sX): test
Wrong input, please enter one of the given options (-sT, -sU, -sS or -sX):
-sS
ok
test_create_banner (__main__.MainTests)
The function should create a banner. ... ok
test_create_dict (__main__.MainTests)
The function should create a dictionary to store the scan results in. ...
ok
test_writeToSQLite (__main__.MainTests)
The function should write the port scan results to a SQLite database file.
... ok
```

```
test_writeToXML (__main__.MainTests)
```

```
The function should write the port scan results to a XML file. ... ok
```

---

```
Ran 13 tests in 122.962s
```

```
OK
```