

Aayan Sayed
CSCI 351
HW 02

Images for my_ping.py:

- "-d" -> Required: hostname for the Ping
 - EX: "python my_ping.py google.com"

```
my_ping.py: error: the following arguments are required: d
➤ Ping-And-Traceroute git:(main) /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_ping.py" google.com

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net
```

- "-c count" -> Optional: Allows user to specify the amount of Pings to send before terminating
 - EX: "python my_ping.py google.com -c 5"

```
➤ Ping-And-Traceroute git:(main) /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_ping.py" google.com -c 5
Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

Original Ping Address: google.com
Host IP: 142.251.41.14
Internal Host Name: lga34s40-in-f14.1e100.net

➤ Ping-And-Traceroute git:(main) /
```

- "-i wait" -> Optional: Allows user to specify amount of time to wait before sending the next packet. Default is 1 second.
 - EX: "python my_ping.py google.com -i 3"

```
➤ Ping-And-Traceroute git:(main) ✖ /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_ping.py" google.com -i 5
```

- EX: "python my_ping.py google.com -s 5"

```
➤ Ping-And-Traceroute git:(main) x /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_ping.py" google.com -s 5
```

- EX: "python my_ping.py google.com -t 10"

```
● → Ping-And-Traceroute git:(main) x /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_ping.py" google.com -t 5
```

Images for my_traceroute.py:

- "-d" -> Required: hostname for the Ping.
 - EX: "python my_traceroute.py google.com"

```
➤ → Ping-And-Traceroute git:(main) ✗ /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_traceroute.py" google.com
1 *
1 * 129.21.63.252 rit-core1-010-vlan4073.rit.edu
2
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
8 142.251.225.89 No Host Name Found
8 142.251.225.89 No Host Name Found
8 142.251.225.89 No Host Name Found
9 142.251.64.7 No Host Name Found
9 142.251.64.7 No Host Name Found
9 142.251.64.7 No Host Name Found
10 142.251.35.174 lga25s78-in-f14.1e100.net
➤ → Ping-And-Traceroute git:(main) ✗
```

- "-n" -> Optional: Print hop addresses numerically rather than symbolically and numerically.
 - EX: "python my_traceroute.py google.com -n"

```
➤ → Ping-And-Traceroute git:(main) ✗ /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_traceroute.py" google.com -n
1 *
1 * 129.21.63.252
2 129.21.8.126
2 129.21.8.126
2 129.21.8.126
3 199.109.111.9
3 199.109.111.9
3 199.109.111.9
4 199.109.107.213
4 199.109.107.213
4 199.109.107.213
5 199.109.107.226
5 199.109.107.226
5 199.109.107.226
6 199.109.107.70
6 199.109.107.70
6 199.109.107.70
7 72.14.202.166
7 72.14.202.166
7 72.14.202.166
8 142.251.225.89
8 142.251.225.89
8 142.251.225.89
9 142.251.64.7
9 142.251.64.7
9 142.251.64.7
10 142.251.35.174
➤ → Ping-And-Traceroute git:(main) ✗
```

- "-q nqueries" -> Optional: Set the number of probes per TTL to nqueries. Default is 1.
 - EX: "python my_traceroute.py google.com -q 5"

```

➤ Ping-And-Traceroute git:(main) x /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_traceroute.py" google.com -q 5
1 *
1 *
1 *
1 *
1 *
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
10 142.251.41.14 lga34s40-in-f14.1e100.net
➤ Ping-And-Traceroute git:(main) x

```

- "-S" -> Optional: Print a summary of how many probes were not answered for each hop.
 - EX: "python my_traceroute.py google.com -S"

```

➤ Ping-And-Traceroute git:(main) x /usr/local/bin/python3 "/Users/aayansayed/Documents/CSCI - 351/Ping&Traceroute/Ping-And-Traceroute/my_traceroute.py" google.com -S
1 *
1 *
1 *
Number of unanswered packets: 3
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
2 129.21.8.126 rit-rit1-100g-pp-rtr001-vlan856.rit.edu
Number of unanswered packets: 0
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
3 199.109.111.9 buf-9208-rit-cdn.nysernet.net
Number of unanswered packets: 0
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
4 199.109.107.213 buf-55a1-buf-9208-cdn.nysernet.net
Number of unanswered packets: 0
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
5 199.109.107.226 syr-57c3-buf-55a1-cdn.nysernet.net
Number of unanswered packets: 0
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
6 199.109.107.70 No Host Name Found
Number of unanswered packets: 0
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
7 72.14.202.166 No Host Name Found
Number of unanswered packets: 0
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
8 142.251.225.87 No Host Name Found
Number of unanswered packets: 0
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
9 142.251.53.149 No Host Name Found
Number of unanswered packets: 0
10 142.251.41.14 lga34s40-in-f14.1e100.net
➤ Ping-And-Traceroute git:(main) x

```