

Win11 192.168.x

TCP 4

```
“ 172.16.62.60 TCP ICMP
5G
```

1 iperf3 TCP

TCP >0= TCP

1. 172.16.62.60 Linux

```
iperf3 -s
```

TCP 5201 5201 2. Win11 Windows iperf3 CMD 60

```
iperf3.exe -c 172.16.62.60 -t 60
```

```
“ Retransmits TCP -t
60 60 -t 300 5
```

```
“ 5G -R TCP
```

```
iperf3.exe -c 172.16.62.60 -t 60 -R
```

2 PsPing Sysinternals



PsPing TCP ICMP ping
Sysinternals psping.exe

```
:: TCP8080  
psping 172.16.62.60:8080 -n 1000
```

- n 1000 1000 TCP
- TCP / ICMP

“ PsPing TCP
iperf3

3 Wireshark



Win11 Wireshark

```
ip.addr == 172.16.62.60 and tcp
```

- [TCP Retransmission] TCP
- [Dup ACK] ACK

4 Windows

pktmon

Win11

TCP

Windows

```
# CMDIP
pktmon filter add -ip 172.16.62.60
pktmon start --capture
```

```
pktmon stop
pktmon format PktMon.etl -o pktlog.txt
```

5G

1. tcping TCP
2. WinMTR / pathping / ping ICMP 10.5.1.1 ICMP
3. 5G iperf3 -R

1. iperf3 Retransmits TCP TCP
2. Wireshark Win11 tcpdump 5G

3. 实验环境搭建

PsPing



iperf 实验环境搭建 / 实验环境搭建

```
iperf3.exe -c 172.16.62.60 -t 300 -b 10M
```

-b 10M 10M



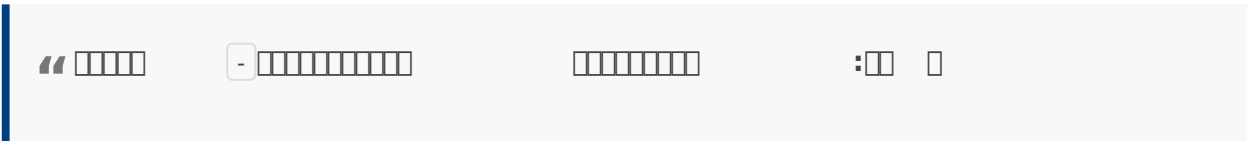
PsPing 实验环境搭建 -accepteula -n IP: 实验环境搭建

```
psping -accepteula www.shuncom.com:443 -n 10
```

实验环境搭建 -n psping 实验环境搭建

实验环境搭建

```
psping -accepteula -n 10 www.shuncom.com:443
```



172.16.62.60:



```
psping -accepteula -4 -n 100 172.16.62.60:8080
```

- 4 IPv4 5G
- n 100 100 TCP

- 命令 IP: 172.16.62.60

命令

ping -t Ctrl+C

```
psping -accepteula -4 -t 172.16.62.60:8080
```

命令

5G

```
psping -accepteula -4 -h -n 50 172.16.62.60:8080
```

命令

命令

-accepteula

命令

命令

-accepteula

命令

5G

psping TCP
命令
TCP iperf3

命令 psping 0%
TCP / 命令

命令

tcping

psping

tcping

```
tcping www.shuncom.com 443  
tcping -t 172.16.62.60 8080
```



TCP connect to xxx:443:
10 iterations (warmup 1) ping test:
Connecting to xxx:443: 0.53ms
Connecting to xxx:443: 0.51ms
...
TCP connect statistics for xxx:443:
Sent = 10, Received = 10, Lost = 0 (0% loss),
Minimum = 0.51ms, Maximum = 0.77ms, Average = 0.60ms

 CMD
 iperf3 Windows TCP

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