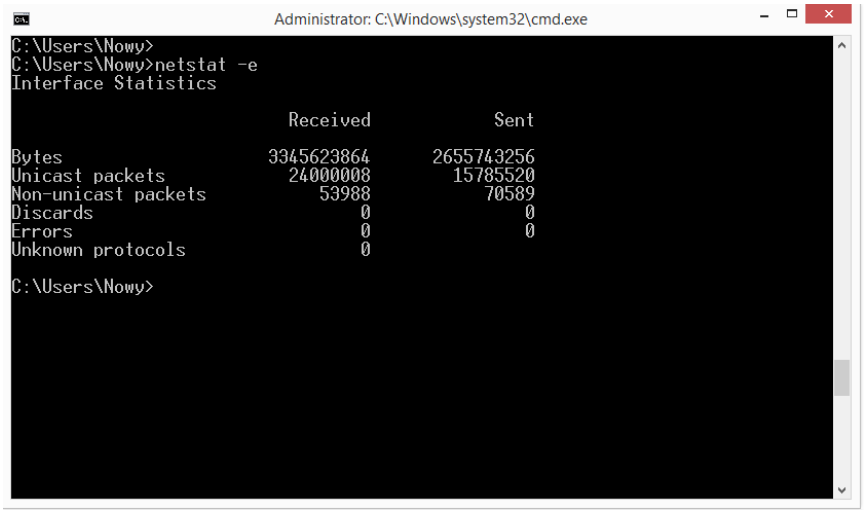
NETSTAT – checking open ports and interface statistics

Netstat (Network Statistics) is a program that allows you to examine the traffic that is generated on specific network interfaces and ports. The program is available on most platforms, one may differ in switches. The most frequently used queries, using the netstat program on the Windows platform, will be presented below.

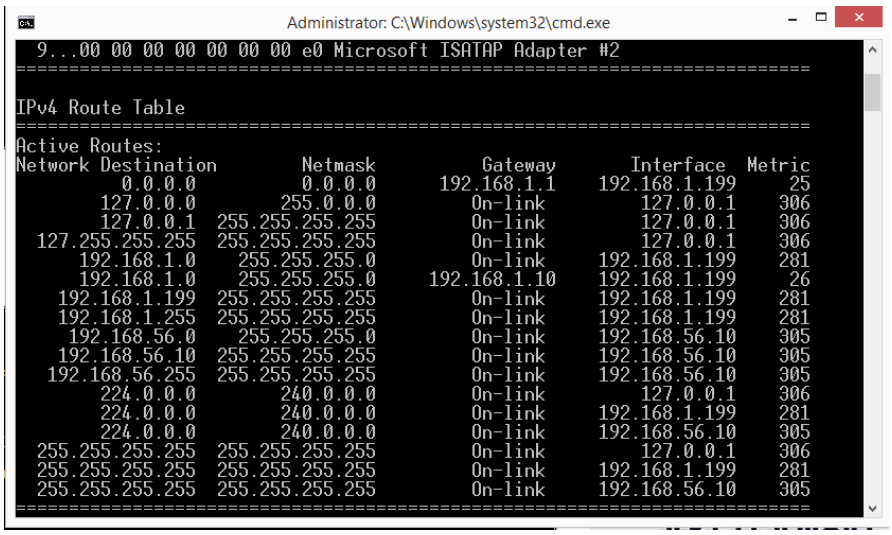
Interface statistics



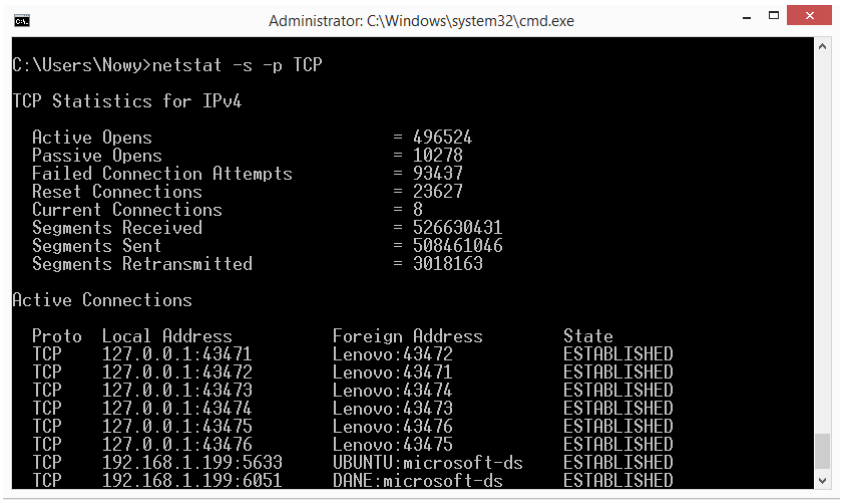
Routing table

Example command:

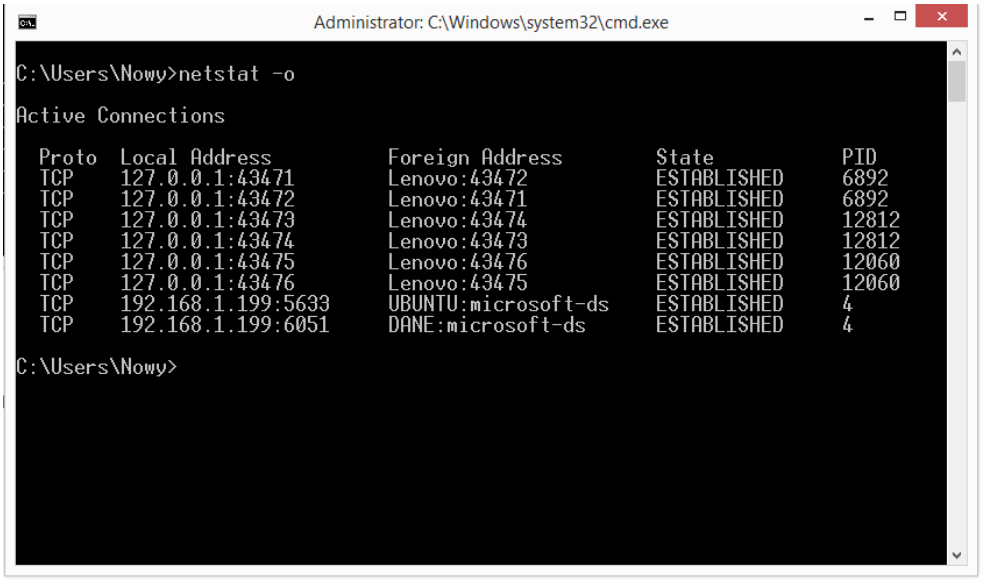
netstat -r



Protocols statistics



Check list of processes assigned with existing connections



Description states of network from command netstat:

- **SYN_SEND** - server sent SYN (Active open)
- **SYN_RECEIVED** - server recieved SYN from client
- **ESTABLISHED** - server resent SYN to client, connection is established
- **LISTENING** - server is ready for incoming connection
- **FIN_WAIT_1** - server sent FIN (active close)
- **TIMED_WAIT** - client status after recieved FIN from server
- **CLOSE_WAIT** - server recieved FIN from client (passive close)
- **FIN_WAIT_2** - client recieved confirming packet after sent FIN
- **LAST_ACK** - server sent FIN
- **CLOSED** - server recieved ACK from client, connection is closed