

ASSIGNMENT - 1

Commands, Functions and Outputs

1. ipconfig

The ipconfig command displays information about the host (the computer you are sitting at) computer TCP/IP configuration.

Output

Ethernet adapter local area connection :
IPv4 Address : 13.0.1.84
Subnet Mask : 255.255.0.0
Default Gateway : 13.0.0.1

2. ipconfig/all

This command displays detailed configuration information about your TCP/IP connections including, router, gateway, DNS, DHCP and type of Ethernet.

Output

Host Name : SYSH21
Primary DNS suffix :
IP Routing Enabled : NO
WINS Proxy Enabled : NO

Ethernet adapter Local Area Connection:

Connection Description	: Realtek PCIe GBE Family
Physical Address	: 1C-1B-0D-82-2F-1B
DHCP Enable	: Yes
Auto Configuration Enabled	: Yes
IPv4 Address	: 13.0.1.34 (Preferred)
Subnet Mask	: 255.255.0.0
Lease Obtained	: Friday, August 05, 2022
Lease Expires	: Sunday, October 01, 2022
Default Gateway	: 13.0.0.1
DHCP Server	: 13.0.0.1
DNS Servers	: 13.0.0.1
Net BIOS over Tcpip	: Enabled

3. nslookup

nslookup is used for diagnosing DNS problems. If you can access a resource by specifying an IP address but not its DNS you have a DNS problem.

Output

Default Server : B1-LAB-Server
Address : 13.0.0.1

> www.iemerp.com

Server : B1-LAB-SERVER

Address : 18.0.0.1

Non-authoritative answer:

Name : iem-prd-elb-551247763.us-east-1.elb.amazonaws.com

Addresses: 54.163.142.205

54.145.129.128

Aliases: www.iemerp.com

>

4. ping <ip>

The ping command sends one datagram per second and prints one line of output for every response received. The ping command calculates round-trip times and packet loss statistics, and displays a brief summary on completion.

Output

pinging 13.0.0.1 with 32 bytes of data:

Reply from 13.0.0.1: bytes = 32 time <1ms TTL = 64

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Ping statistics for 13.0.0.1:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),

Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 0ms, Average = 0ms

5. tracert <ip>

The tracert command displays a list of all the routers that a packet has to go through to get from the computer where tracert is run to any other computer on the internet.

Output

Tracing route to B1-LAB-SERVER [13.0.0.1]
over a maximum of 30 hops:

0 <1ms <1ms <1ms B1-LAB-SERVER [13.0.0.1]

Trace Complete.

6. netstat

Netstat displays a variety of statistics about a computer's TCP/IP connections. This tool is useful when you are having trouble with TCP/IP applications such as HTTP and FTP.

Output

Active Connections

Proto	Local Address	Foreign Address	State
TCP	13.0.1.84:63746	ec2-54-145-129-128:https	ESTABLISHED
TCP	13.0.1.84:63747	ec2-54-145-129-128:https	ESTABLISHED