1- consider you are sitting in front of Google's company's manager

for an interview. please go ahead and respond this questions:

1. What hapen when you type google.com on the browser
2. what is the osi model? what was the reason behing the osi model

it is a reference model on how applications can communicate over a network. It is a conceptual framework for understanding relationships.This can help network managers to narrow down problems.Is it a physical problem or or something that involves the application.

The reason behind the osi model was to define widely accepted waysof setting up networks and connecting them together. Before 1980 hardware manufacturers created proprietory products to support their own products with these products mixed equipment could not be used on the same network. To run a networkone had to buy devices from the same company. Which created a nightmare to collaborate between diferent types of computer? To sort out this issue the OSI protocol model was developed.

1. What is NAT

Network address translation is a process where a network device assigns a public address to a computer or a group of computers inside a private network. Example is when we have more than one persons living in a home or sitting in an office the NAT gives each member an address to identify them uniquely.

1. What is a 3 way hand shake?

A three way handshake is a method used in a TCP/IP network to create a connection between a local host or client and server. It is a three way method that requires the client and server to exchange sync and acknowledgement packets before any data communication.

1. What are the 7 layers of the osi model?

Application Presentation, Session, Transportation, Network, Data link, Physical,

1. what do you know about the osi model

The osi known as open system interconnection model it is a model of communication between two endpoints in a telecommunication network. It divides network communication into seven layers. Levels 1-4 are considered the lower layers and levels 5-7 the upper layers which contain application level data.

1. What is TCP/IP

Transmission Control Protocol/internet protocol. It is a set of networking protocols that allows two or more computers to communicate. It was developed by the department of defense from the defence data network which is part of the DDD.

1. what is UDP?

User Datagram Program is a transport layer is a used for sending bits of data known as packets over the internet, it is used with the IP address. It is one of the core members of the internet transport program. It has its disadvantages.one of which includes offers a minimal transport service

1. what is the difference between TCp and UDP?

The difference between TCP and UDP is that the UDP offers only a minimal transport service, its deliveryis non guaranteed,it throws out all the error checking stuff, all the back and forth leads to slowing down process, the sender will not wait to make surethe recipient receives the product ifthe receiver misses any packets it keeps sending other packets it will not resend and some of the packets are lost.UDP is good when we want speed and when error correction is not necessary. It is used frequently for online games and broadcast. On the other hand TCP is reliable and most commonly used protocols on the internet. Packets sent through TCP are tracked with no data lost, or corrupted in transit. If the recipient is offline an error message comes up to notify the sender it cannot communicate with the host.

Both TCP and UDP are protocols used for sending bits of also known as packets over the internet. Both protocols build on top of the IP protocols.

1. What are some problems we can run into on L1 , L3 and L7
2. A client calls you and said his computer is not connecting what can be the problem? please help him/her to troubleshoot

You use the OSI protocol model to identify what level the problem is at before troubleshooting. Connection is in level3 the Network layer, I will check the router or switch and the network address, network communication

2- Linux command line

1. what commant do you type to create a file?

touch

1. what command do you type to find out how long the server has been up and running?

uptime

1. what command do you type to see the content of a directory/folder

ls, ls r

1. what command do you use to display the content of a file?

Ls, ls a, ll

1. what linux distribution are you familiar with ?

centos

1. how do you view a file one page at the time?

Cat, pg

1. what command do you type to know where you are in a particular server?

pwd

1. If you are presented with a prompt, what command would you type to check the os running?
2. what command would you type to check the ip address of a linux server?

/sbin/ifconfig

1. What command do you type to check all previous typed commands?

history

1. What command would you use for command's documentation or to learn more about a command.

man

1. give 3 commands used to display the content of a file.

Ls, ll, ls a

3- create a VM in your virtualbox with the specs below:

name : homecentos

memory: 1500

Hard drive 25G

bridge the network , attach the centos iso image to it and install it.

4 -login to your newly installed server and create an account called john

with password = school1

5 -login as john and answer below questions

a- where are you in the server?

b- how many directories are in the directory where you are ?

c- create a directory called finance

d- in finance , create a file called review

e- put this message into the file review: "Linux is one of the best and easy software ... I cant believe I

understand it very well"

"The next goal is to have fun while making the big $$$$"

f- type a command to check the content of review

g- how long the server have been up?

h- check the date on the server

i- check the time on the server

j- check the ip address of your server

6- what command wouldyou type to check users logged into a server?

7- How do you solve a problem in a team?

8- how many windows are in Delaware?