classmate Page

Cyber Security ASSIGNMENT 2

Submitted by : Divanshi

1. All the three owners (user owner, group, others) in the Linux system have three types of permissions defined.

i.) Read (n): The nead permission allows you to open and nead the contents of a file. But you can't do any editing or modification in the file.

2) Write (w) : The write permission allows you to edit, remove or rename a file. For instance, if a file is present in a directory and write permission is set on the file but not on the directory, then you can edit the content of the file but can't remove, or rename it.

3.) Execute (x): In Unix type system, you can't run or execute a program unless execute permission ou set. But in Windows, there is no such permission available.

2. 1) Ipconfig

Displays all current TCP/IP network configuration values
and refreshes Dynamic Host configuration Protocol (DHCP)

and Domain Name System (DNS) settings. This command is

most useful on computers that are configured to obtain
an IP address automatically. This enables useds to determine

which TCP/IP configuration values have been configured by

DHCP, Automatic Private IP Addressing (APIPA), or an

alternate configuration.

2.) Notstat
Displays NetBIOS over TCP/IP (NetBT) protool statistics. NetBIOS
name tables for both the local computers and metavork

nemote computers, and the NetBIOS name cache. Notstat allows a refresh of the NetBIOS name cache and the names registered with Windows Internet Name Service (WINS).

3.) Metstat

D'esplays active TCP connections, ports on which the computer is intening, Ethernet statistics, the IP nouting table, IPv4 statistics and IPv6 statistics.

4.) Asip

domain validation

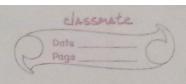
Displays and modifies entories in the Address Resolution Perotocol (ARP) cause, which contains one or more tables that are used to store IP addresses and their eresolved Ethernet or Token Ring pupical addresses.

		THE PART OF STREET
3.	НТТР	HTTPS
	It stands for typestext	It stands for supertext Transfer
	Transfer Protocol.	Protocol seuvre.
(ii)	MTTP URL in browsers	MTTPS URL in browsers address
	address bas is http://	bas is https://
(w)	It sends data ever port 80.	It sends data over port 443.
	It & unsecured.	It is secured.
(v)	It operates at application	It operates at transport layer.
	layer.	
(vi)	NO SSI certificates are origined for MTTP.	With HTTPS it is required that you
	origined for MTTP.	have an SSL certificate and it
		is signed by a CA.
(vii)	HTTP doesn't erguige.	MITTE GRANISHED ALLEGAT donne

validation and certain certificates,

even require legal document

validation.



(viii) No encryption in HTTP.

Data is encrypted before sending in

4. A fireway is a network security device, ethrer hardware or software based, which monitors all incoming and outgoing traffic and based on a defined set of security nules it accepts, rejects or drops that specific traffic.

in addition to the use of simple configuration of a single septem,

more compeix configurations are possible;

(i) screened host finewall system (single-homed bostion host)
finewall consists of two systems, a parket-fittering router
and a bastion nost. The nonter is configured so that:

· for traffic from internet, only 'it packets destined for the

bastion host are allowed in.

for traffic from the internal network, only It packets from the bastion host are allowed out.

The bastion host performs authentication and proxy function

- (ii) Screened host firewall system (dual homed bastion host)
 The packet filtering router is not completely compromised.

 Traffic between the private hosts on the private network has
 to flow through the bastion host.
- (iii) scriened subnet finewall configuration

 It is the most secure configuration of the three. I wo
 packet-fitting routers are used. Creation of an isolated
 sub-network which consist of simply the baseion host,
 may also include one or more information servers
 and moderns.

E	Perquisites to configure a server are:
3,	1. LAN card should be connected.
	2. Root (pareillon on which window is installed) should
	1. PAITED
	3. Selver should be conféqueed with a static IP. address.
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