SSH Theory Session

SSH Server and SSH Client [Secure Shell] ______ Machine <== Operating System <== User Create <== TASK Perform <== Login <== Local to local <== username + password <== Enter Types of login method? 1- Local to local ==> Username + password 2- Remote Login ==> username + Password + IP address of server machine + Client software[Remote session] 1- ssh 2- putty 3- Other tools as well [xyz.pem OR public key] ______ ssh root@192 168 0 100 Package ==> openssh-server ==> server machine ==> sshd [service name] package ==> openssh-clients ==> ssh ==> command ==> linux based flavor ==> putty OR Other tools as well [Windows machine] _____ SSH Service ==> Required package ==> mandatory ==> during the OS installation automatically 1- Service ==> running 2- port number ==> open OR on ______ SSH ===> sshd ==> 110047 ===> vsftpd ==> 23232 Utility ===> Daemon/unit/Service ==> # pidof sshd [Examples of PID this can be anything] ===> Port number _____ 1- using any command ==> command based execution permissions 2- data management ==> file and directory based permissions ______ 1- SSH Services always use for remote login from one machine to another machine. 2- SSH services support on both types of environment LAN and WAN. 3- In client side we can have any operating system to make connection with the server machine. 4- SSH basically is an advance concept of telnet service. 5- SSH is much secure service as compare to telnet because in SSH all information always transfer in encrypted format but in telnet it was in plain text concept. ______ _____ SSH Openssh

IMPORTANT Points About SSH Service

- 1- SSH stand for Secure Shell.
- 2- SSH is a network protocol for secure data communication.
- 3- SSH protocol allows remote command line login.
- 4- SSH protocol enables remote command execution.
- 5- To use SSH you need to deploy SSH Server and SSH Client program respectively.
- 6- Telnet, rlogin, and ftp transmit unencrypted data over internet.
- 7- OpenSSH encrypt data before sending it over insecure network like internet.
- 8- OpenSSH effectively eliminate eavesdropping, connection hijacking, and other attacks.
- 9- OpenSSH provides secure tunneling and several authentication methods.
- 10- OpenSSH replace Telnet and rlogin with SSH, rcp with scp, ftp with sftp.

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Server Side ?	
	==> openssh-server ==> sshd ==> 22 (by default port number) ==> /etc/ssh/sshd_config ==> /var/log/secure
Client Side ?	
Linux Based ==> openss or #ssh usernam	h-clients [already installed during the OS installation time]
Windows based ==> putt	y.exe OR other tools [need to install manually]
Note:- Both machines mus	st be in network
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