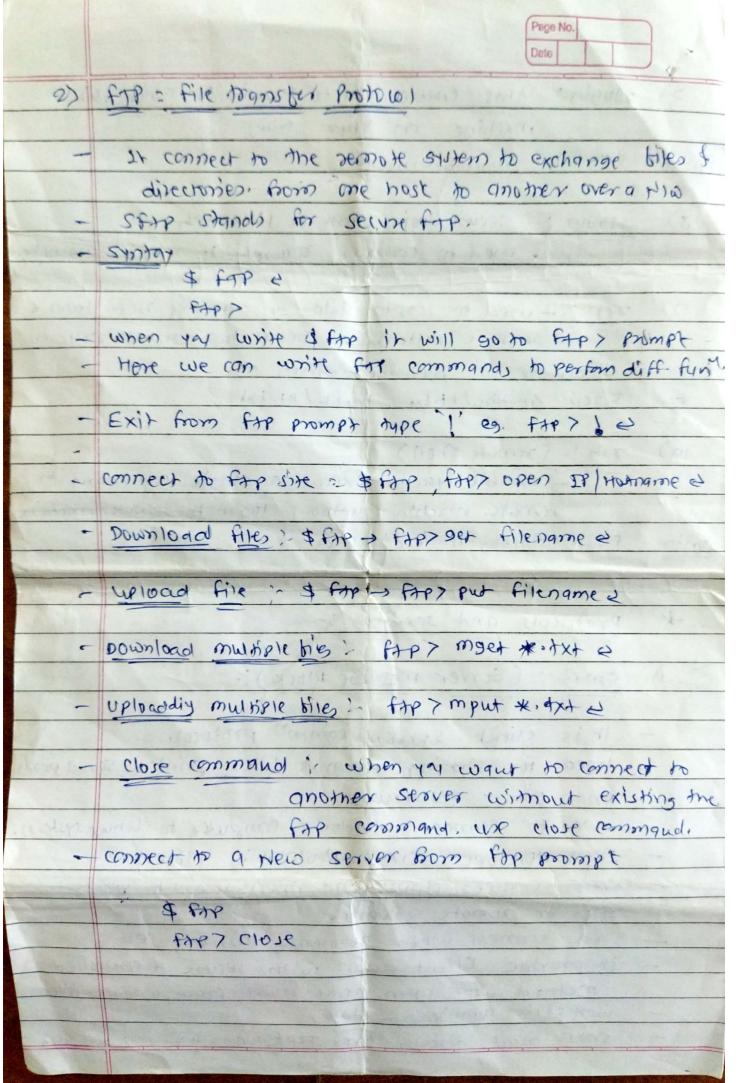
Unit- 8 Page No. Linux Networking Date Networking services of configuration files: Network services * it is a set of applications oun in background. it enable certain capabilities as necessary. eg. connecting to network, file sharing. following 3 services for equipmed for NIW activities on linux system. Network: This service turn on NIW card or power me modem. iptables: - it is kernel based fixeway service 2) - used to filter packets 3) xinetd: - It is server - used to manifor 4 control other server - this service free the CPU load. configuration files there likes for NIW interface one focated in lete / sysconfig / network-script/ directory. This is used to activate & deactivate these NIW Interfaces. No & interface files can differ from system to System Three categorois of likes that exist in this olige. a Interface configuration liter 2 Interface control tiles 3) Nework function files.

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| * | Linux Networking tools |
|) | Ping: - used to check a remote system is summy or no |
| 4.0 | to NIW or not |
| Syntax | - \$ ping www.gmail. com & |
| | Note: we can use so instead domain name. |
| か | Host: - wed to obtain NIW address intermation - Inton consist of IP add, domain name, on |
| Syntax | & host www slowe com & |
| 3) | traceroute: show pain from your current machine to |
| Syntay | : traceroute develojo-com |
| 4) | SSh; stanch for seams shell and runs on port-22. - It is seam way to connecting to remote seven |
| Syntay | |
| 57 | who: - wed to see which were are cyarenty online on your system. |
| | - list all wers (ymenty connected, |
| Synn | I who es when wer tooged in , from where, thouteng, |
| 6> | Finger: Show user into which gives details & all coners logged in. — used by system admin. |
| | - Provide details like login name, wername, idlening |

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| | Date |
| 7) | mogin: this enables you to loo in to other anix |
| | machine on your NIW. |
| Synter | striogin machingame |
| | to and the state of the state o |
| 8) | 5109in :- Secure losin, work an like ssh. |
| | - used to connect securely to remote machine |
| | |
| 2) | orp: - used to copies tiles or directory beto local of |
| +3 | remote system, or betti two remote system. |
| syntay | - \$ rcp -8 -r filename directy & |
| eg. | \$ rcp /mydise/ktotat, kgrtik/ktotat |
| | P (state to) Dott He woulded was alkely |
| 10) | |
| 4 96. 30m | - enable you to execute a single command on |
| S. S. M. L. S. | remote machine without loois to remote machine |
| syntan | \$75h storby 15 /enc/stel a |
| | A STATE OF THE STA |
| -* | protocols and services :- |
| | |
| 0) | SmB: (Server message Block): |
| | The second of th |
| | - It is client - server commo protocol. |
| | - used for shaping access to tiles, printer, send posts, |
| NAME OF THE OWNER, OWNE | and other resources. |
| | - used to connect windows computer to linux yetern. - Dem developed SmB Protowl in 1980. |
| | - sms enables apply and their went to access |
| | biles or remote servers. |
| | eg. connect other resources, Printers, etc |
| | it provide Client apply wim secure & controlled |
| | method for open, read, more, creare, update tiles. |
| - | works in application later |
| - | smB runs directly over TCP/EP and was port HO. 445 |
| | |
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| * | NFS (Network File System) |
| | THE STATES |
| | 1) allows sycum to at the control of |
| | is allows system to share clirectories and files with |
| | other over a MIW |
| | using NFS user and proseams can acrem fileson |
| 4 | remote system. similly to local system. |
| | It is distributed fire system protou), designed by |
| N | sun microsystem in 1984. |
| * | Installation & server |
| | \$ sudo apt install nfs-kernel-server |
| * | to start NFS server |
| NE 1910- | I sudo systemet start nfs-kernel-server service |
| 4 | for client system |
| - | sudo apt instau nfs-common. |
| - | it is client server appin that allow user to view & |
| 1372 03 | modify bles on remote computer as like local biles. |
| - | It is one of several standard for pishibuted the |
| ct dala | System on Network attached sex storage. |
| advant | - Low cost, Earl to setup, Enable central mant & shared then Reduce disk space, |
| disadult | - Need Annied Mu |
| -3900 | Slow down HIW It high trathic |
| | Side State of the |
| | |
| | NES NES THE |
| | File system server miner client system |
| N. Partina | 30,000 |
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| | La |
| | Provide accento Cicu Gra |
| | its file statem. |
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| | Aeress files system. |
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| 3) | LPAP (Lightweight Pirectory Access Protocol) |
| | |
| - | - It is a set of open protocols used to acress. |
| | centrally stored Info. over a HIW. |
| - | It is based on X.500 standards for directory |
| | shaning, |
| | X500 is standard that contains hierarchical and |
| | categorized infon. |
| _ | inform includes namer, address, there numbers. |
| - | Uke X500, LDAP organize. Inform in a hiergraphical |
| | manner using directories. |
| - | LOAP is commonly used within Individual organization |
| | like universities, govt departments, private companier |
| - | LPAP is a client-server system. |
| - | LDAP is mainly used to organize all data to centraly, |
| • | LDAP also supports backend databases, which story |
| | directory. |
| 4) | DHCp: (Dynamic Host Configuration Protocol) |
| NO. 12 (1977) | it is NIW protocol that assign TCPIDD into" to cilcut machin |
| | each DHCP Went connects to centrally located DHCP server |
| | DHCP is useful for automatic configuration of Client- |
| | NIW Interface |
| T | DHCP is also we ful to chang IP addresses & 1900e |
| | number & systems. |
| - | OHEP can copie sugrantel mat all hosts on Niwhare |
| - | Drich keep records of all IP address. |
| | DHCP store into about ay DP address in below the |
| MARIE | dhopd-leases within Ivan/116/dhop. directory. |
| Syntx | \$ sudo dof install dhop (wed for red hat) |
| | |
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