Bruno Page No.
Date / /

Assignment -1

Title

LAN Setup Wing Layer 2 switch & IP suitch.

A Problem Statement

Setup a wired LAN using layer 2 statement,
with switch and then IP switch of minimum
for computers. It includes proporation of cable, testing
of cable using line tester, configuration machine using
IP address, testing using PING utility and
demonstrate the PING packets captured traces.
Using wireshork packet analyzer tool.

A softhage / Hardwe requirements:

AN Cable, coinging tools, suitch, line tester

Theory

· Local Area Network (LAN)

A local area Network is a group of computer & peripheral devices which are connected in a limited area such as school, laboratory, home & office building. It is a widely defined usefull network for sharing resources, like files, printers games etc.

By construct a lide area network (UAN)

not only covers a large geographic distance,

but also generally involves forwed Communication.

-> Few types of LAN are:

Ethernet LAN

Fast Ethernet etc.

196 26840

\$ Switch

A suitch is a data link layer device. A suitch is multiport bridge with a buster and design that can boost its efficiency, and performance.

The suitch can perform coros checking before formading data that makes it very efficient as it does not formad puchets that have crows. In other words, suitch divides collision domain of hosts but broadcast domain remains some

\$ Stops for Setting up LAN

- -> Install chance cood in Machine
- -> Groimp the ethernet cable.
- -> Muhe straight cable in order do hom stro.

 spology network do connect 2 different types
 of components.
- -> Topology network to connect 2 different types of component.
- -> Make crow cable in order to from other

dopology notwork to connect 2 similar types of Assign IP address to mechane 1,2,3,47

A prog from one michine do another

computer(node) Computer c1 corpute d'hode) =3 computer (norte) STAR TOPOLOSY

A Conclusion

In this essignment, we have learned about various depologies of how to implement them we have learned about several desting book of wireshort puchet analyzer. We have exceed a wired LAN using layer 2 suitch with IP switching.