CS198 – System Administration (Intermediate)

Final Project Proposal

Group 2

Netboot Server Implementation

Objective:

The goal of our final project is to implement a functional prototype of a Netboot Server Environment with the Linux Operating System.

Summary:

The purpose of our project is to allow remote boot operation on a computer over the network through Netboot. In order to achieve that goal, we will be setting up Virtual Servers with VMware and Linux Operating system. We have decided to install Ubuntu Linux with kernel version 2.6.x on a Widows XP host machine. The boot image will be located on the server by the client through the DHCP protocol and Boot Server Discovery Protocol (BSDP). Implementation of a Netboot server environment will allow us to configure an out of the box machine instantly and with a great deal of efficiency.

Major Milestones:

Event	Estimated Date	Estimated Duration
VMWare Installation	4/8/2008	1 day
Virtual Server Installation	4/9/2008	1 days
DHCP Server Installation	4/10/2008	2 days
DHCP Configuration	4/12/2008	1 day
NetBoot Installation and Configuration	4/13/2008	2 days
Miscellaneous Troubleshooting	4/15/2008	2 days
Testing	4/17/2008	2 days

Required Tools:

- VMware Host Machine (Windows XP operating system)
- Netboot Virtual Server as VMware guest on the host machine
- DHCP Virtual Server as VMware guest on the host machine

Financial Estimate:

Financial Estimation is beyond the scope of this proposal.

System Administration Team:

- Group – 02: Emily Cheng (cs198-CB), Graeme Curtis (cs198-CF), Gazi Mahmud (cs198-CJ) and Joshua Kwan (cs198)