Hosts Hospitality

Introduction and/or Background
All operating systems with network support have a hosts file in order to translate hostnames to IP addresses. Whenever you open a website by typing its hostname, your system will read through the hosts file to check for the corresponding IP and then open it.

The hosts file is a simple text file located in the etc folder on Linux and Mac OS (/etc/hosts). Windows has a hosts file as well, on Windows you can find it in Windows\ System32\drivers\etc\

Objectives
In this project/lab the student will:
- Gain familiarity with the hosts file

Equipment/Supplies Needed
- As specified in Lab 0.0.1.
- Linux Installation File: Ubuntu Server and Ubuntu Desktop

Procedure
Perform the steps in this lab in the order they are presented to you. Answer all questions and record the requested information. Use the Linux Virtual Machine to perform lab activities as directed. Unless otherwise stated, all tasks done as a non-root user. If root access is needed use the sudo command.

Assignment

1 Turn on both the Ubuntu server and client.

2 Obtain the IP address of the Ubuntu Server.

3 Log into the Ubuntu Client.

4 Ping localhost – this should succeed.

5 Ping the server's IP – this should also succeed.

6   Open www.facebook.com in Firefox– its log in page should appear.

7   Close any open Firefox windows.

8   Modify Ubuntu client hosts file. In a Terminal window, open the file:

    8.a   sudo nano /etc/hosts

    Add the following lines to the end of the file:

      a.i   #Custom hosts
      a.ii   127.0.0.1 <hostname of client>
      a.iii   <VMSVR1 ip address> <hostname of server>
      a.iv   127.0.0.1 www.facebook.com

9   Save the file

10 Verify the changes.
    10.a   Ping client, then server, and **take a screenshot** showing both results.
    10.b   Open www.facebook.com in Firefox and **take a screenshot.**

Rubric
Checklist/Single Point Mastery

Concerns Working Towards Proficiency	Criteria Standards for This Competency	Accomplished Evidence of Mastering Competency
	Criteria #1: Screenshot showing successful pings between client and server (50 points)	
	Criteria #2: Screenshot showing successful manipulation of hosts file (50 points)	