UBUNTU LINUX - INSTALLATIONS (WRY) - SSH, SAMBA & APACHE2
============================================================================
(1) INSTALL SSH (SECURE SHELL) OPENSSH-SERVER
This installation allows you to connect from a Windows machine (through a SSH client - Putty or OpenSSH) to a Linux (Ubuntu) machine and you can do everything on the command line on Windows that "effects" the Linux machine. You are actually running a 'remote connection' on the Linux machine.

(2) INSTALL SAMBA (FILE SHARING - WINDOWS<->UNIX)
This installation provides a samba service on your Ubuntu linux machine that sets specified directories for file sharing between Windows and Linux (Unix) machines. You can use your File Browser (GUI) on both Windows or Linux to copy, paste or move files around.

(3) INSTALL APACHE2 WEBSERVER (THE EASY WAY)
This installation gives you apache the easy way. I do not need to explain more than that. Apache is the most common 'webserver' around in the world today.

============================================================================
postgres@ubuntu41:/usr/lib/postgresql/bin$ date
Sun Jul 17 22:35:28 MYT 2005
postgres@ubuntu41:/usr/lib/postgresql/bin$

INSTALL SSH (SPECIFICALLY OPENSSH-SERVER) - MUST BE IN ROOT
============================================================================
root@ubuntu41:/ # apt-get install ssh
Reading package lists... Done
Building dependency tree... Done
The following extra packages will be installed:
  openssh-server
The following NEW packages will be installed:
  openssh-server
  ssh
0 upgraded, 2 newly installed, 0 to remove and 27 not upgraded.
Need to get 0B/290kB of archives.
After unpacking 696kB of additional disk space will be used.
Do you want to continue [Y/n]? y
Media change: please insert the disc labeled
  'Ubuntu 5.04 _Hoary Hedgehog_ - Release i386 (20050407)'
in the drive '/cdrom/' and press enter

Preconfiguring packages ...
Selecting previously deselected package openssh-server.
(Reading database ... 58523 files and directories currently installed.)
Unpacking openssh-server (from .../openssh-server_3.9p1-1ubuntu2_i386.deb) ...
Selecting previously deselected package ssh.
Unpacking ssh (from .../ssh_3.9p1-1ubuntu2_all.deb) ...
Setting up openssh-server (3.9p1-1ubuntu2) ...
Creating SSH2 RSA key; this may take some time ...
Creating SSH2 DSA key; this may take some time ...
  * Restarting OpenBSD Secure Shell server... [ ok ]

Setting up ssh (3.9p1-1ubuntu2) ...
root@ubuntu41:/ #

CHECK FOR SSH PROCESS RUNNING
============================================================================
root@ubuntu41:/ # ps -ef | grep ssh
INSTALL SAMBA (FILE SHARING ON THE NETWORK)
------------------------------------------------------
root@ubuntu41:/ # apt-get install samba
Reading package lists... Done
Building dependency tree... Done
Suggested packages:
    samba-doc
The following NEW packages will be installed:
    samba
0 upgraded, 1 newly installed, 0 to remove and 27 not upgraded.
Need to get 0B/2356kB of archives.
After unpacking 6099kB of additional disk space will be used.

Preconfiguring packages...
Selecting previously deselected package samba.
(Reading database ... 58543 files and directories currently installed.)
Unpacking samba (from .../samba_3.0.10-1ubuntu3_i386.deb) ...
Setting up samba (3.0.10-1ubuntu3) ...
Generating /etc/default/samba...
* Starting Samba daemons... [ ok ]

CHECK FOR SAMBA PROCESS RUNNING
------------------------------------------------------
root@ubuntu41:/ # ps -ef | grep nmb
root  7629  1 0 22:39 ? 00:00:00 /usr/sbin/nmbd -D

root@ubuntu41:/ # ps -ef | grep smb
root  7631  1 0 22:39 ? 00:00:00 /usr/sbin/smbd -D
root  7634  7631 0 22:39 ? 00:00:00 /usr/sbin/smbd -D

INSTALL APACHE2 WEBSERVER (THE EASY WAY - DEFAULT SETTINGS)
---------------------------------------------------------------
root@ubuntu41:/ # apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
The following extra packages will be installed:
    apache2-common apache2-mpm-worker apache2-utils libapr0 libpcre3 openssl
Suggested packages:
    apache2-doc lynx www-browser ca-certificates
The following NEW packages will be installed:
    apache2 apache2-common apache2-mpm-worker apache2-utils libapr0 libpcre3 openssl
0 upgraded, 8 newly installed, 0 to remove and 27 not upgraded.
Need to get 1241kB/2255kB of archives.
After unpacking 6820kB of additional disk space will be used.
Do you want to continue [Y/n]? y
Get:1 http://security.ubuntu.com hoary-security/main libapr0 2.0.53-5ubuntu5.1 [128KB]
Get:2 http://security.ubuntu.com hoary-security/main apache2-utils 2.0.53-5ubuntu5.1 [90.5KB]
Get:3 http://security.ubuntu.com hoary-security/main apache2-common 2.0.53-5ubuntu5.1 [789KB]
32% [3 apache2-common 188523/789kB 23%] 21.2kB/s 39s
root@ubuntu41:/ # apt-get install apache2
Reading package lists... Done
Building dependency tree... Done
The following extra packages will be installed:
  apache2-common apache2-mpm-worker apache2-utils libapr0 libpcre3 openssl
  ssl-cert
Suggested packages:
  apache2-doc lynx www-browser ca-certificates
The following NEW packages will be installed:
  apache2 apache2-common apache2-mpm-worker apache2-utils libapr0 libpcre3
  openssl
  ssl-cert
0 upgraded, 8 newly installed, 0 to remove and 27 not upgraded.
Need to get 1022kB/2255kB of archives.
After unpacking 6820kB of additional disk space will be used.
Do you want to continue [Y/n]?
y
Get:1 http://security.ubuntu.com hoary-security/main apache2-common
  2.0.53-5ubuntu5.1 [789kB]
Get:2 http://security.ubuntu.com hoary-security/main apache2-mpm-worker
  2.0.53-5ubuntu5.1 [200kB]
Get:3 http://security.ubuntu.com hoary-security/main apache2 2.0.53-5ubuntu5.1
  [33.5kB]
Fetched 768kB in 53s (14.3kB/s)

Preconfiguring packages ...
Selecting previously deselected package libpcre3.
(Reading database ... 58593 files and directories currently installed.)
Unpacking libpcre3 (from .../libpcre3_4.5-1.1_i386.deb) ...
Selecting previously deselected package libapr0.
Unpacking libapr0 (from .../libapr0_2.0.53-5ubuntu5.1_i386.deb) ...
Selecting previously deselected package openssl.
Unpacking openssl (from .../openssl_0.9.7e-3_i386.deb) ...
Creating directory /etc/ssl
Selecting previously deselected package ssl-cert.
Unpacking ssl-cert (from .../ssl-cert_1.0-11_all.deb) ...
Selecting previously deselected package apache2-utils.
Unpacking apache2-utils (from .../apache2-utils_2.0.53-5ubuntu5.1_i386.deb) ...
Selecting previously deselected package apache2-common.
Unpacking apache2-common (from .../apache2-common_2.0.53-5ubuntu5.1_i386.deb) ...
Selecting previously deselected package apache2-mpm-worker.
Unpacking apache2-mpm-worker (from .../apache2-mpm-worker_2.0.53-5ubuntu5.1_i386.deb) ...
Selecting previously deselected package apache2.
Unpacking apache2 (from .../apache2_2.0.53-5ubuntu5.1_i386.deb) ...
Setting up libpcre3 (4.5-1.1) ...
Setting up libapr0 (2.0.53-5ubuntu5.1) ...
Setting up openssl (0.9.7e-3) ...
Setting up ssl-cert (1.0-11) ...
Setting up apache2-utils (2.0.53-5ubuntu5.1) ...
Setting up apache2-common (2.0.53-5ubuntu5.1) ...
Setting Apache2 to Listen on port 80. If this is not desired, please edit
/etc/apache2/ports.conf as desired. Note that the Port directive no longer
works.
Module userdir installed; run /etc/init.d/apache2 force-reload to enable.

Setting up apache2-mpm-worker (2.0.53-5ubuntu5.1) ...
  * Starting web server (Apache2) ... [ ok ]

Setting up apache2 (2.0.53-5ubuntu5.1) ...
root@ubuntu41:/ #

CHECK FOR APACHE PROCESSES RUNNING (3 THREADS DEFAULT)
root@ubuntu41:/  # ps -ef | grep apache
root  7873  1  0 22:42 ? 00:00:00 /usr/sbin/apache2 -k start -D
www-data  7874  7873  0 22:42 ? 00:00:00 /usr/sbin/apache2 -k start -D
www-data  7875  7873  0 22:42 ? 00:00:00 /usr/sbin/apache2 -k start -D
www-data  7877  7873  0 22:42 ? 00:00:00 /usr/sbin/apache2 -k start -D

CHECK NETWORK CONFIGURATION OF YOUR MACHINE
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root@ubuntu41:/  # ifconfig
eth0     Link encap:Ethernet  HWaddr 00:B0:D0:AD:34:3B
          inet addr:10.100.19.41  Bcast:10.100.19.255  Mask:255.255.255.0
          inet6 addr: fe80::2b0:d0ff:fead:343b/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:3026 errors:0 dropped:0 overruns:1 frame:0
          TX packets:837 errors:0 dropped:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1483635 (1.4 MiB)  TX bytes:64820 (63.3 KiB)
          Interrupt:11 Base address:0xec80

lo       Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:7943 errors:0 dropped:0 overruns:0 frame:0
          TX packets:7943 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:740259 (722.9 KiB)  TX bytes:740259 (722.9 KiB)

root@ubuntu41:/  #

===========================================================================
ALHAMDULILLAH. DONE.
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