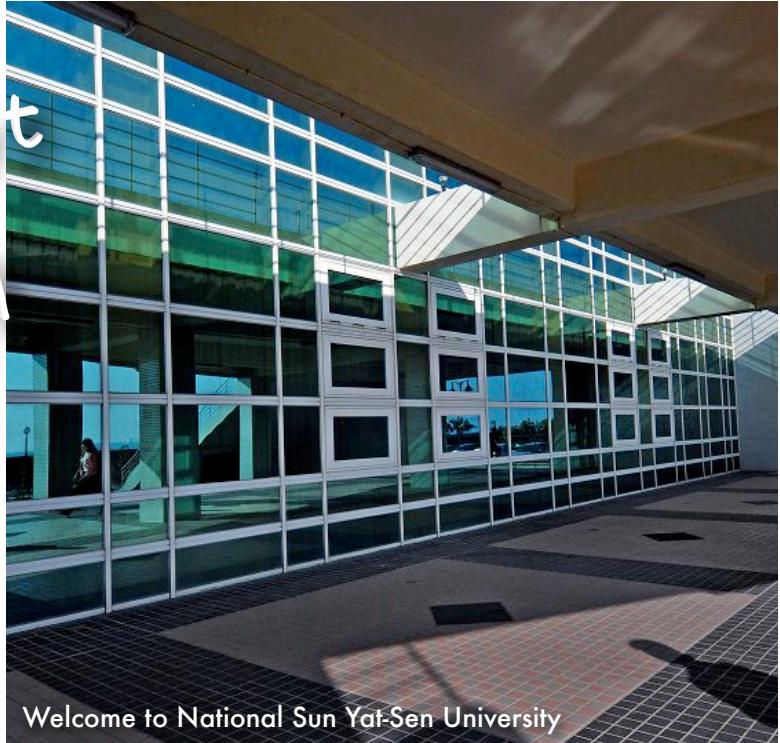


# Dorm-Net Manual

2012

NSYSU

CDPA



## PREFACE

### Welcome NSYSU

National Sun Yat-sen University is the hinge of a Local Area Network (LAN) in the Kaohsiung and Pingtong area. Therefore, the effective transmission speed is among the best in the whole country. That is why the Internet transmission speed is even better than before.

To serve freshmen, we edited this Dormitory-net booklet, making sure that all

of you will know how to operation related equipment as soon as possible. Things like this will never have to happen again: you spent lot of money on your computer hardware but don't know how to get on the Internet in the dormitory area.

We use simply words with pictures to introduce every Internet service step by step, from the basic network settings to advanced software installment, including dormitory-net

standard and some other important items. We hope that all of you will understand the dormitory-net better after taking a look at this booklet and enjoy the convenience of campus dormitory-net.

Room :

Bed :

CAMPUS DORM-NET

PROMOTION

ASSOCIATION



2012

IP Address : 140.117.\_\_\_\_\_.\_\_\_\_\_  
Subnet Mask : 255.255.\_\_\_\_\_.\_\_\_\_\_  
Gateway : 140.117.\_\_\_\_\_.\_\_\_\_\_

# Contents

Welcome	To	NSYSU
P. 1 Preface IP Address	P. 2 About CDPA	P. 3 Intellectual Property Rights Dorm-net Rules
P. 4 Network Setting Windows XP Vista 7	P. 7 Network Setting MAC OS X Mountain Lion	P. 8 Network Setting Linux Ubuntu 12.04
P. 9 Dorm-Net F.A.Q.	P. 10 BBS User Guide	P. 11 Network Knowledge Library

## ABOUT CDPA

CAMPUS DORM-NET PROMOTION ASSOCIATION WAS FOUNDED BY A GROUP OF NSYSU'S STUDENTS WHO HAVE A BIG INTEREST IN DORM-NET, IS A STUDENT ORGANIZATION CALLED NSYSU-CDPA. THE ESTABLISHMENT OF THE INITIAL GOAL IS TO PROVIDE STUDENTS WITH A BETTER QUALITY OF DORMITORY NETWORK, RESPONSIBLE FOR THE DORMITORY NETWORK SERVICES AND TO MAINTAIN THE SMOOTHNESS OF THE NETWORK CONNECTION AND HELP THE ADMINISTRATIVE UNIT TO REDUCE THE PRACTICAL MANAGEMENT DIFFICULTIES. NOW CDPA IS COMMITTED TO ENHANCE THE NETWORK BENEFITS FOR LODGING STUDENTS, INCLUDE FREE WEB SPACE, WEBMAIL ([HTTP://REGISTER.CDPA.NSYSU.EDU.TW/](http://REGISTER.CDPA.NSYSU.EDU.TW/)) , AND HOPE THAT DORM-NET TO BE ONE OF THE FAVORITE PART OF THE STUDENT'S WELFARE TO NSYSU STUDENTS.

### CONNECT CDPA ?

#### CDPA BBS

( <telnet://bbs.cdpa.nsysu.edu.tw> )

#### CDPA Facebook

( <http://fb.cdpa.tw> )

Weekly Class : Wed. · Library B1

### HOW TO JOIN CDPA? RIGHTS AND OBLIGATIONS ?

You can join our weekly meetings course if you want to join CDPA. If you have a willingness to serve and want to learn how to manage the dorm network, you can also join the dormitory

network management training program, and after passing an examination then you can help to manage dorm net. All Dorm-net administrators are volunteers.

CDPA held an opening seminar after the beginning of school, the contents of the seminar is to introduce the courses and training program which held by CDPA in that semester, also share the new technique and information and so on. Warmly welcome all the students who have a big interest in dorm-net and also who's having a problem in setting up dorm-net to these courses.



# Intellectual Property Rights

Be careful of infringement.

Nowadays IPR becomes an important concept in Taiwan, but there is still exists endless stream of infringement cases. In this era which information gets readily available, we have to pay more attention on the problem of Intellectual Property Rights, and to respect others Intellectual Property Rights. Using and sharing information on the internet is very convenient; however, that always be the main reason to cause infringement.

Recently, one of the NSYSU students was accused by the publisher and sentenced by the court because he uploaded unauthorized English teaching materials on the internet and let others download it. So, do not casually upload and share unauthorized publications or download it.

## Specification of NSYSU Campus Networks

### 1. Purpose

In the purpose of encouraging the educational and learning skill, and in order to fully develop the use of campus network (including dorm network), and popularity of respect for the rule of law, this specification is developed by according to Ministry of Education Specification of the use of campus network.

### 2. Respect Intellectual Property Rights

User should respect others IPR, and avoid following acts which will involve infringement of copyrights,

- a. Using unauthorized computer programs
- b. Download illegal copies of works which protected by copyright.
- c. Upload the copies of works which protected by copyright to official website without the consent of the copyright owner.
- d. Transcribe the article from BBS or other online discussion board without the permission from the author.
- e. Building the website for public to illegally download unauthorized works.
- f. And other actions which will involve infringement of copyrights.

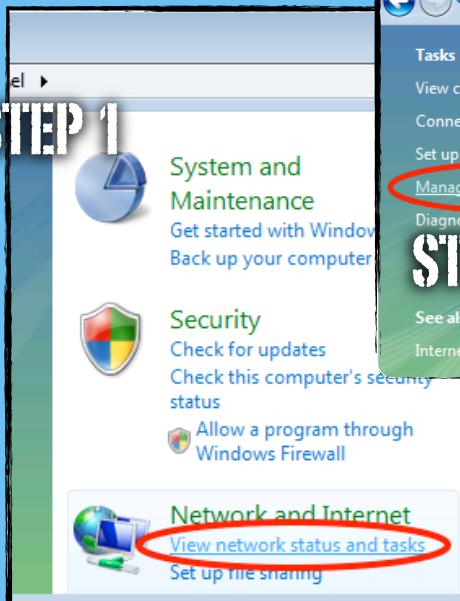
### 3. Forbids to abuse or interference network system

Users are not allowed to do following actions:

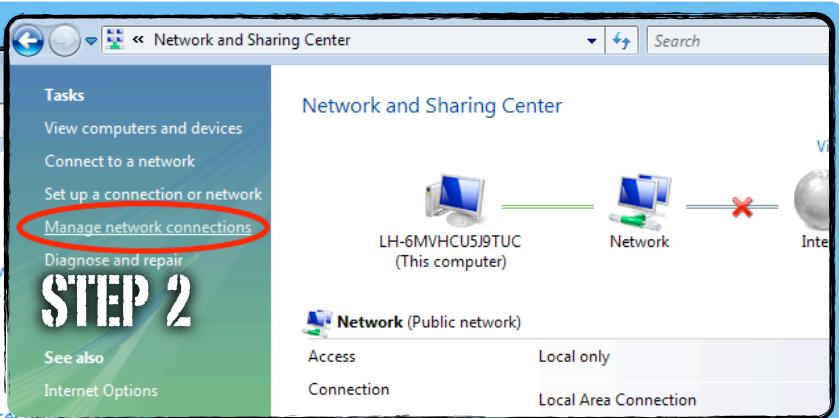
- a. Spreading computer viruses or other programs which will interference with or damage to the system
- b. Intercepting an unauthorized network messages.
- c. Using network resource without authorization by hacked other account and password. Or leak out others account and password without any reason.
- d. Let other person used your ID with no reason.
- e. Using hidden ID or false account. Unless clearly authorized to use anonymous ID can be accepted.
- f. Peeping on others E-mail or files.
- g. Abusing network resources by any manner to affect the operation of the system, including sending large amount of spam e-mail, chain letters or useless information, or making others mail box overloaded, plunder resources, etc.
- h. Using e-mail, online chatting, bulletin board (BBS) or other similar functional method to spread fraud, defamation, insults, obscene, harassing, exchange illegal software, and other illegal messages to others.
- i. Using school's internet resources in non-teaching research activities or other illegal behaviors.

A  
b  
o  
u  
t  
t  
h  
e  
R  
u  
l  
e  
s

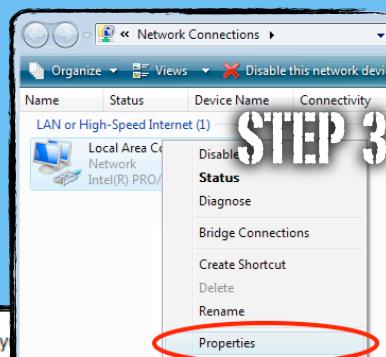
# STEP 1



# STEP 2



# STEP 3



Windows 7

You can get IP settings assigned automatically if you have this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

# STEP 4

Obtain an IP address automatically  
 Use the following IP address:

IP address:

140 . 117 .

Subnet mask:

255 . 255 .

Default gateway:

140 . 117 .

Obtain DNS server address automatically

Use the following DNS server addresses:

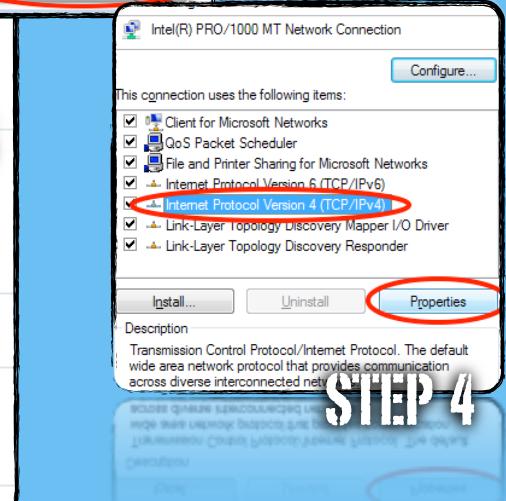
Preferred DNS server:

140.117.205.1

Alternate DNS server:

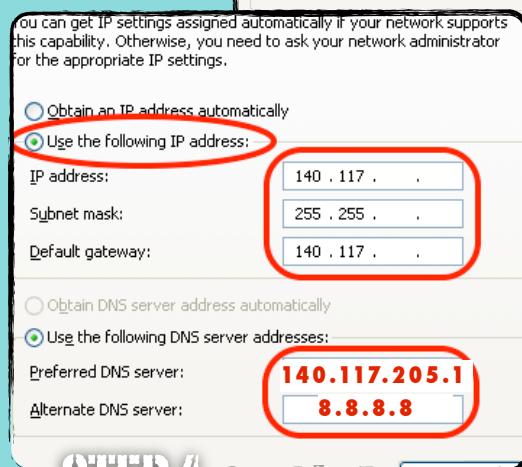
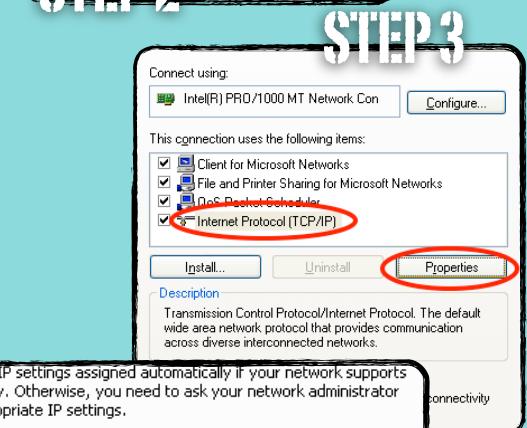
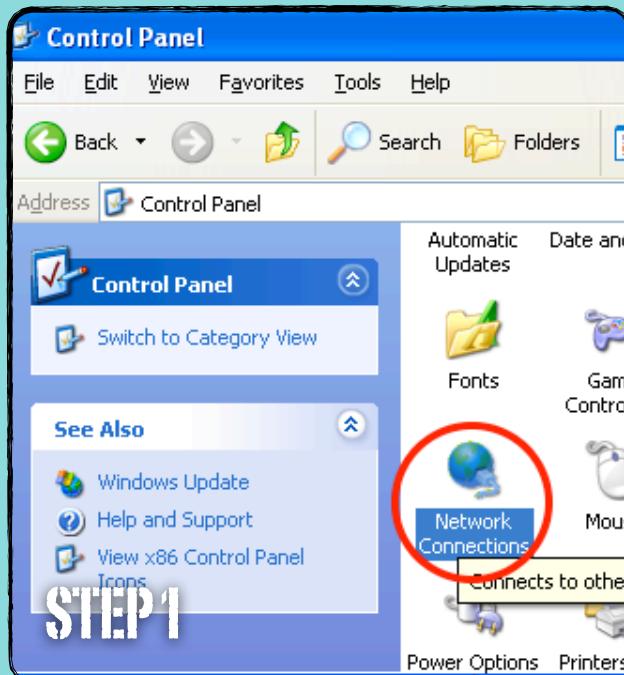
8.8.8.8

# STEP 5



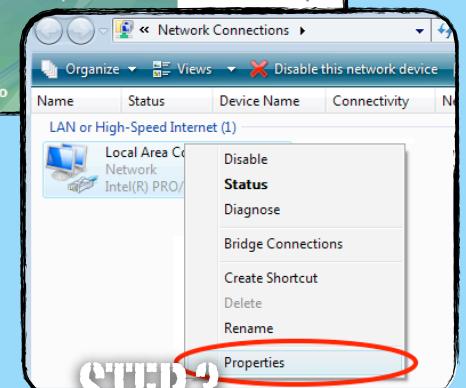
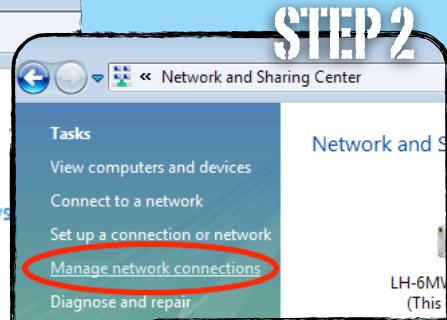
7 CONFIG	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
	Start -> Control Panel -> Network Connections -> View network.	Click Manage network connections.	Right-Click on the Local Area Connection.>Properties.	Double-click on the TCP/IP tab. If TCP/IP does not come up, click on the install tab>Protocol>TCP/ IP.	<p>【Address】 【Netmask】 【Gateway】 Fill in the values which write on the first page. Fill 140.117.205.1 &amp; 8.8.8.8 in 【DNS Server】</p>

\* Adress of each bed position to p.1



XP CONFIG	STEP 1	STEP 2	STEP 3	STEP 4
	Start -> Control Panel -> Network Connection	Right-Click on the Local Area Connection .->Properties.	Double-click on the TCP/IP tab. If TCP/IP does not come up, click on the install tab->Protocol ->TCP/IP.	【Address】 【Netmask】 【Gateway】 Fill in the values which write on the first page. Fill 140.117.205.1 & 8.8.8.8 in 【DNS Server】

\* Adress of each bed position to p.1



this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.

Obtain an IP address automatically

Use the following IP address:

IP address:	140 . 117 . .
Subnet mask:	255 . 255 . .
Default gateway:	140 . 117 . .

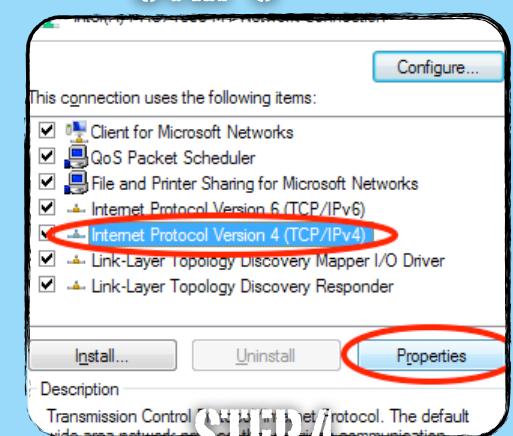
Obtain DNS server address automatically

Use the following DNS server address:

Preferred DNS server:	140.117.205.1
Alternate DNS server:	8.8.8.8

**Windows Vista**

**STEP 5**



STEP 1	STEP 2	STEP 3	STEP 4	STEP 5
Start -> Control Panel -> Network Connections -> View network status and task	Change adapter setting .	Right-Click on the Local Area Connection->Properties.	Double-click on the TCP/IP tab. If TCP/IP does not come up, click on the install tab->Protocol ->TCP/IP.	<b>[Address]</b> <b>[Netmask]</b> <b>[Gateway]</b> Fill in the values which write on the first page. fill 140.117.205.1 & 8.8.8.8 in <b>[DNS Server]</b>

\* Adress of each bed position to p.1

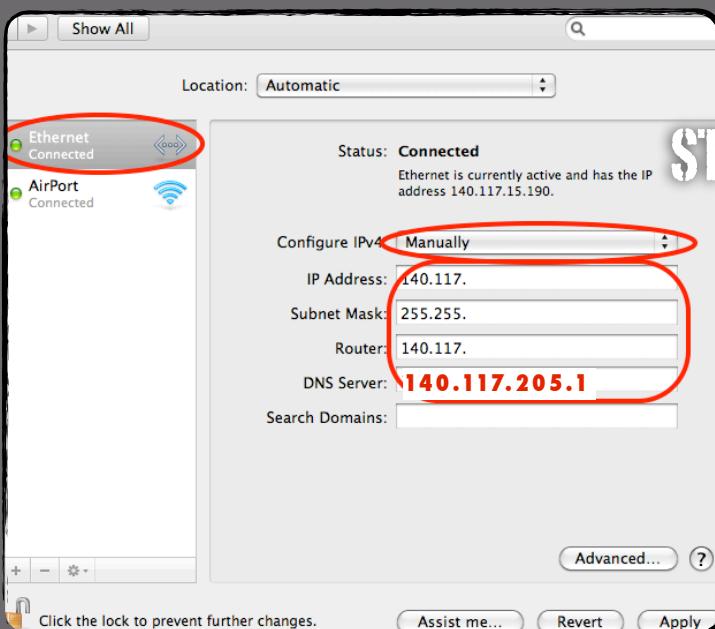


**STEP 1**

MAC OS X



**STEP 2**



**STEP 3**

Mountain Lion 10.8

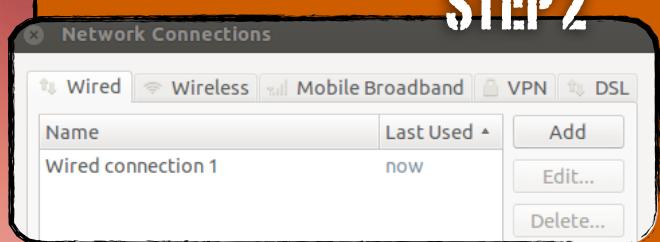


APPLE CONFIGURATION	STEP 1	STEP 2	STEP 3
 Mountain Lion Review	Click System Preferences.	Click Network.	Choose Ethernet on left. Change IPv4 to Manual. Fill the values which on the first page for [Address] [Netmask] [Gateway], [DNS Server] with 140.117.205.1 & 8.8.8.8

\* Adress of each bed position to p.1



**STEP 2**

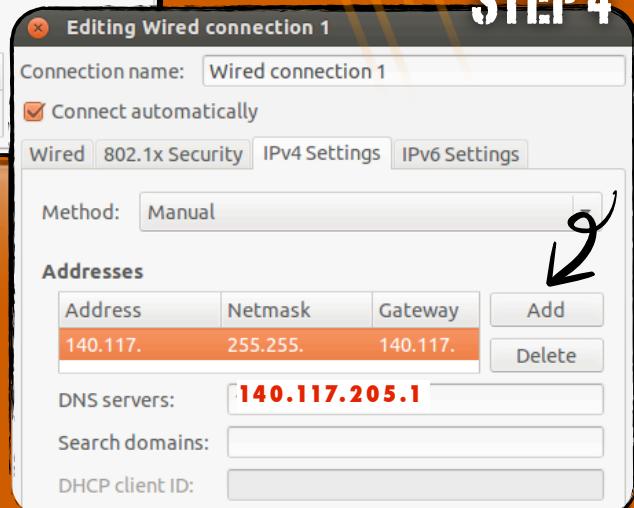


**STEP 1**



**STEP 3**

**STEP 4**



Linux  
Ubuntu  
12.04

LINUX CONFIG	STEP 1	STEP 2	STEP 3	STEP 4
	Click the Double Arrow on the right top of the screen → Edit Connections .	Click Wired Connection 1 → Edit( on the right ).	Choose IPv4 Settings, and then select the Method as Manual.	【Address】 【Netmask】 【Gateway】 Fill in the values which write on the first page. Fill 140.117.205.1 & 8.8.8.8 in 【DNS Server】

\* Adress of each bed position to p.1

# DNS CONFIG

THE DNS CONFIGURATION IS RELATED TO WHERE THE USER IS, IN ORDER TO GET MORE FASTER NETWORKING SERVICE, THE FOLLOWING IS THE SUGGESTED:

DNS	ISP
140.117.205.1	CDPA
8.8.8.8	GOOGLE
140.117.111.1	NSYSU
168.95.1.1	HINET

## Dormitory F.A.Q Section

### 1. About the Flow Control ?

#### ( - ) Content of the Controller ?

To protect the rights of the most people using the Internet, if you upload files larger than **6G per day**, your network will be jailed by the system for seven days. If anyone try to escape the punishment or disguise IP address, CDPA will stop the one's dorm-net permanently.

#### ( = ) Why Flow Control ?

According to the limited bandwidth, TANet want to provide the better performance of the network, so control the flow is necessary.

#### ( = ) Inconvenient ?

It won't bother the common use of the net, if you have the special requirement, please apply to the school.

### 2. What to do when I lost connection ?

Check your roommates situation :

#### \* All Dead >

Go to West bay BBS and let CDPA know.

#### \* Only your net crash >

Check whether the problem is in your computer.(Virus/Settings)

If not, find a network outlet which is sure to be ok to surf the net, insert your network cable and check the connection :

#### \* OK to use >

Go to dormnet119 in point three below to report the problem.

#### \* Crash >

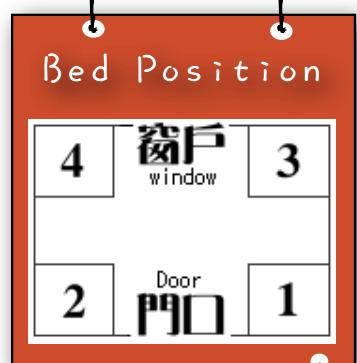
The cable should be changed.

If there still have problems after the steps, please find the computer company to repair.

### 3. How to Repair Network when no Connection ?

Go to <http://dormnet119.cdpa.nsysu.edu.tw/>.

Following the instructions then the professional will come for you.





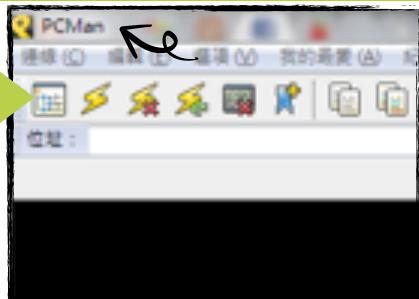
STEP 1

First, google PCMAN and download it !

Please download the Lite version.

After installing successfully, the browser should be like..

STEP 2



For this guiding example, enter bbs3.nsysu.edu.tw in the address area.  
( telnet:// is the common used BBS url )

Then the welcome page shows. STEP 4



STEP 3

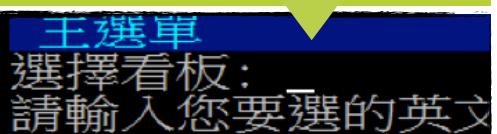
Enter new to create an account.

STEP 5



After following setting steps of the account, the main menu shows.

Choose s to enter. STEP 6



(c) Class  
(n) Announce  
(O) Boards  
(s) Select  
(r) Read  
(t) Talk Menu  
(m) Mail Menu  
(x) Xyz Utilities  
(g) Goodbye

【提供】  
分類式佈告欄選擇  
進站公告  
游標式佈告欄選單  
輸入式佈告欄選擇  
讀取佈告  
休閒聊天園地  
個人郵件信箱  
個人資料維護工具  
再見，我的朋友

→)(Enter)選擇 (←)(Q)上層 (Tab)展開公告 (P)

Enter nsysu, you can use the arrow keys to operate.

STEP 8



連線時間：0小時 6分 2秒 位址：bbs3.nsysu.edu.tw

pichubaby 推：耶我又來了

## BBS - How to use ? Bulletin Board System User Guide

If there is an article you interested, press Shift+5 to poke. enter y to comment. If you have any question , plz go to <http://fb.cdpa.tw> or telnet://bbs.cdpa.tw .

STEP 9

# Network Technology Library



## What is HTTPS ?

HTTPS = Hypertext Transfer Protocol Secure . HTTPS is build on the most wildly used protocol HTTP, to provide the secure transportation certification. HTTPS consist of HTTP and SSL, dealing with the transportation which needs to be totally secure.

The browsers like Chrome、Firefox and Internet Explorer all supports HTTPS protocol, When you go to the site which use HTTPS, they will check the certification, if warning jumps, be careful of the site you go.

## ABOUT DNS ?

Briefly, it's a mechanism to translate ip into ip address. In TCP/IP protocol, ip address(ex: 140.121.135.37) is set as numbers, but it can't be remembered easily, so it translate to the domain name format(url) to help.

For example, when you go to yahoo, you enter yahoo.com, then the DNS server will can it into xxx.xxx.xxx.xxx, and the browser use this ip address to access the yahoo.

According to the above:

1. If we use IP address( number format ) to surf the net, it will be more faster because we omit the step to translate the address.
2. If the domain name we entered haven't put in the DNS server's searching table, we only can use ip address to access the site.

## WHAT IS PING ?

Packet InterNet Groper。

```
C:\WINDOWS\system32\cmd.exe
C:\>ping www.google.com.tw
```

The tool which is use to check whether the remote host is alive. Use ICMP protocol to send echo reply

message to judge the connection with the remote host.

## Intro. to Netstat

Network Status – a tool to check the status of the current network. Execute "cmd" in Windows and input some instructions of the following to check the network states :

### netstat -a

List all current TCP and UDP connections.

### netstat -e

List the statistic report of the network flow. ( bytes )

### netstat -n

To check whether there is an unknown connections to our computer.

## TANET IN NSYSU

TANet = Taiwan Academic Network is jointly established by the Ministry of Education, as well as the major National University, a national teaching and research network.

TANet infrastructures :

- (一)National Backbone Network
- (二)Local Area Network use local center to connect the backbone network and span the campus net.
- (三)Campus Network

Sun Yat-sen University is the backbone of the Kaohsiung-Pingtung the Penghu area network of belonging to the second level, enjoys a unique network environment, and hope that the students will be able to cherish.



## Useful Site

Dorm-Net Repair : <http://dormnet119.cdpa.tw>

Dorm-Net Web Mail : <http://dorm.nsusu.edu.tw>

CourseSelectionSystem : <http://selcrs.nsusu.edu.tw>

Grade Query : <http://selcrs.nsusu.edu.tw/scoreqry>

CDPA FaceBook : <http://fb.cdpa.tw>

WestBay BBS : <telnet://bbs3.nsusu.edu.tw>

CDPA BBS <telnet://bbs.cdpa.tw>

Supervise by NSYSU

Trademark Notice

Trademarks and names belongs to each company