Connecting to "yalewireless" and to Ethernet (wired) Connections on Campus

How to Get Ready for Stage 2 Connectivity (Stage 1 connectivity must be done on-site once you arrive. See below.):

This type of connectivity is especially necessary for those with **desktop computers who will be living in the Divinity School apartments** or anyone else who may need a wired connection anywhere on Yale's campus.

- 1. Make sure that you have activated your NetID and have set up a password for it. If you have not done that yet, contact the Admissions Office.
- 2. Go here: <u>http://www.yale.edu/netreg/</u>.
- 3. Click on the big blue button that says, "Register Student Network Connection."

2) Yale University Network Registration - Mozilla Firefox	compared to the state of the st		
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C > C × 🛆 Y http://www.yale.edu/netreg/		☆ - Google	1
🔎 Most Visited 🛅 Getting Started 🛼 Latest Headlines			
Y Yale University Network Registration 🔶			
YaleInfo			
July 21, 2011			close window
YALE UNIVERSITY NETWORK REGISTRATION			
This web site allows you to register your computer(s) for use on Yale's network. Registration is done based on your network adapter. Each individual network and a structure thermet port on the Yale campus.	ork adapter must be registered separately for it	to gain full access to Yale's network. After registration, a compute	er can be used with
Register Stud Network Conne	ent ction		
Faculty and staff should consult their local IT support providers for assistance with registering computers to access the campus network. Faculty in the ar	s & sciences that do not have a local support per	rson should send email to faculty.support@yale.edu to request as	ssistance.
This service is provided by Student Technology Collaborative, a division of ITS Client Resources. Please contact us if you have any questions or comments.			
Done			yale.edu
			meneration

4. You will then be asked to agree to the "Policies, procedures, and guidelines" of proper usage of Yale's networks. To continue, click "I Accept."



5. You will be given a prompt to type you NetID and password. Do that and click, "Login."

Yale University		Yale Network Registration
ITS INFORMATION TEC	HNOLOGY SERVICES	Serving the Yale community with technology
Net	work Registration User Lo	gin Help
In order to use and access Yale network resou This page is the first step in the registration pr your Yale email) and select Login to proceed.	irces you must first register your machine ocess. Please enter your NetID and pass	for use. word (this is the same login and password used for
NetiD	NetID	
Password	•••••	
Cancel		
	ITS, Yale University, 2 Access to Yale's el All c	ITS Help Desk: 203-432-9000. 5 Science Park, 150 Munson St., New Haven, CT 06520, USA ectronic services if governed by <u>applicable laws and policies</u> . ontents Copyright© 2011, Yale University. All rights reserved. <u>Comments to the site editor</u> .

6. You will then be taken to a page that allows you to register new devices on the Yale network, view devices already registered under your NetID, and delete the devices you do not want.

	De	evice Registration		Help
Click the "Detect" button to de enter the MAC address. Or if and select register. All fields i	etect the MAC Address o you wish to register a dif must be filled in. Hover yo	of the device you are currently using. If n fferent device, enter the MAC address o rour mouse of the question mark symbol	othing happens, you'll ha f that device. Complete th for help.	ve to manually e remaining fields,
Hardware (MAC) Address	Detect			•
Description				•
Operating System	s	Select One		•
Register				
The following devices are cur device. To change device info	rently registered to your ormation, delete the devi	NetID. If you wish to un-register (delete) ice and re-register it.) a device, click the "Delet	e" button for that
Device	Description		Operating System	
00-92-37-AD-83-29	Test Computer - Et	thernet	Windows	Delete
For assistance, please co	ntact the ITS Help Desk a	at 203-432-9000.		
		ITS Yale University 25 Scien	ITS He	elp Desk: 203-432-9000. v Haven CT 06520 USA

7. Here is the tricky part, so pay attention. If your computer is a Mac, skip to step 12 now. For all versions of Windows, this next step is the same, though the Windows interface looks different in each version. Click the "Start" button, go to "All Programs," then to "Accessories," then click "Command Prompt." The screenshots below are what it looks like in Windows XP, Windows Vista, and Windows 7, in that order.

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Windows XP



Windows Vista



Windows 7



8. After a second or two, depending on the speed of your computer, a black box with white text should pop up with a blinking cursor at the end of a string of characters. Type the following without the quotation marks: "ipconfig /all."



- 9. Hit the Enter key.
- 10. This next part may be confusing, so read points 10 and 11 of this document together, referring to the image under point 11. You should see a list of networking devices and the information about them. If your computer has wireless, then you will want both the wired and the wireless information. Look for the device labeled something like "Ethernet adapter Wireless Network Connection" or something like that. You may have to scroll up and down in the window to find this device, as there might be numerous devices listed with different names. Under the device with a name similar to "Ethernet adapter Wireless Network Connection," look for the "Physical Address," which consists of sixteen letters and numbers, divided into six sections of two each (e.g. 00-14-A4-22-6F-0A). This is the MAC or hardware address of your wireless network card. Write this information down somewhere.
 - a. You also want the hardware (MAC) address of your wired Ethernet network card. This should be named something like "Ethernet adapter Local Area Connection." Write down the hardware (MAC) address for this card, as well.
- 11. Thus, in the example given in the image below, the hardware (MAC/physical) addresses of the Wireless and Wired Ethernet cards are the following, respectively: 00-14-A4-22-6F-0A (wireless) and 00-12-3F-23-B2-8E

(wired). Now that you have written these down, skip to step 20. Steps 12-19 are for Macintosh users only.

Recycle Bin		1
Ø		. 7.
Internet Explorer	C:\WINDOWS\system32\cmd.exe	- - ×
Adobe Reader 9	Ethernet adapter Wireless Network Connection 2: Connection-specific DNS Suffix . : its.yale.edu	Con
Melwarebytes' Anti-Welware	d d Physical Address	∪ar_
Mozila Firefox RealPlayer	DHCP Server	PM
Microsoft Office P	Media State Media disconnected Description Broadcom NetXtreme 57xx Gigabit C roller #3 Physical Address	Cont
Windows Media Player	Ethernet adapter Network Connect Adapter:	
start	🔰 🕼 🌔 🥑 🦉 Win XP BTFO Screens 🔤 C:\WINDOWS\syste	() ()

12. For Mac Users only: This section will describe how Mac users can obtain the MAC addresses (Mac and MAC are two different terms—"Mac" Macintosh and MAC stands for Media Access Control) for their network cards. First, click on the Apple symbol in the top left corner of your screen, and click "System Preferences."

5

9

	About This Software Up App Store	Mac date			
2					•
1	System Pref	erences	8		and Arriston
	Dock				
	Recent Item	s	•	+	
	Force Quit	•	CHO		
	Sleep Restart Shut Down		״אב		
	Log Out yds	admin	企業Q		
		•			

13. Next, click the icon labeled "Network."

000			System P	references			
	Show All					Q	
Personal							
File New				0	Î	Q	
Appearance	Desktop & Screen Saver	Dock	Exposé & Spaces	Language & Text	Security	Spotlight	
Hardware							
CDs & DVDs	Displays	Energy Saver	Keyboard	Mouse	Trackpad	Print & Fax	Sound
Internet &	Wireless						
MobileMe	Network	Bluetooth	Sharing				
System							
Accounts	Date & Time	Parental Controls	Software Update	Speech	Startup Disk	(Q) Time Machine	Universal Access
Other							
Flip4Mac WMV	Symantec Auto-Protect	Symantec QuickMenu	Version Cue CS4				

14. Making sure that the Airport is still selected (it will be by default, unless you click somewhere else), click on the "Advanced" button at the bottom right corner of this window.



15. You will then see a list of Preferred Networks, a number of check boxes, and an identification number listed at the button under the label "Airport ID." In the screenshot below, this ID number has been highlighted. Right down this number as being the hardware (MAC) address for the Airport card on your MAC. Then click "Cancel."

AirPort	TCP/IP	DNS	WINS	802.1X	Proxies	Ethernet
Prefe	erred Netw	orks:				
Net	work Name			Sec	urity	
Yale	eGuest			No	ne	
yale	e wireless			No	ne	
Requ)isconnect uire admini Create com	when log istrator p puter-to	gging ou password -compu	it d to: ter networ	ks	

Network Name Security YaleGuest None yale wireless None + - Drag networks into the order you prefer. Preferred Networks this computer has joined Disconnect when logging out Require administrator password to: <t< th=""><th>AIIPOIL</th><th>TCP/IP</th><th>DNS</th><th>WINS</th><th>802.1X</th><th>Proxies</th><th>Ethernet</th></t<>	AIIPOIL	TCP/IP	DNS	WINS	802.1X	Proxies	Ethernet
Network Name Security YaleGuest None yale wireless None + - Drag networks into the order you prefer. Image: Remember networks this computer has joined Disconnect when logging out Require administrator password to: Create computer-to-computer networks Change networks Turn AirPort on or off AirPort ID: 10:9a:dd:a2:94:0f	Pref	erred Net	works:				
YaleGuest None yale wireless None + - Drag networks into the order you prefer. Image: Provide the state of the	Net	work Name			Secu	irity	
yale wireless None + - Drag networks into the order you prefer. • Remember networks this computer has joined • Disconnect when logging out Require administrator password to: Dreate computer-to-computer networks • Create computer-to-computer networks • Turn AirPort on or off AirPort ID: 10:9a:dd:a2:94:0f	Yal	eGuest			Nor	ne	
 + - P Drag networks into the order you prefer. P Remember networks this computer has joined D Disconnect when logging out Require administrator password to: Create computer-to-computer networks Change networks Turn AirPort on or off AirPort ID: 10:9a:dd:a2:94:0f	yale	e wireless	5		Nor	ne	
	C Requ	Disconnec uire admi Create cor	t when lo nistrator nputer-to	gging ou passwor o-compu	it d to: ter networ	ks	

16. Next select "Ethernet" or "Built-in Ethernet" from your options in the left panel. It should be either above or below "Airport."

000		Network	
Show All]		٩
	Location:	Automatic	*
 AirPort Connected Ethernet Not Connecte FireWire Not Connected 		Status: Configure IPv4: IP Address: Subnet Mask: Router: DNS Server: Search Domains:	Cable Unplugged Either the cable for Ethernet is not plugged in or the device at the other end is not responding. Using DHCP
+ - *-			Advanced ?
Click the lock to	prevent further	r changes.	Assist me Revert Apply

17. Once you have selected "Ethernet," click "Advanced" in the bottom right hand corner of the screen.

000	Network		
Show All		Q	
	Location: Automatic	*	
 AirPort Connected Ethernet Not Connected FireWire Not Connected 	Status: Configure IPv4: IP Address: Subnet Mask: Router: DNS Server:	Cable Unplugged Either the cable for Ethernet is not p in or the device at the other end is responding. Using DHCP	olugged not t
+ – &-	Search Domains:	Advar Assist me Revert	Apply

18. You should then see a row of tabs to choose from. Click on the tab labeled "Ethernet," which is probably the last tab on the right.

(TCP/IP DINS WIN	NS 802.1X Proxies	Ethernet	
	Ethernet ID:	c8:2a:14:23:70:7f		
	Configure:	Automatically	\$	
	Speed:		A T	
	Duplex:	half-duplex		
	MTU:	Standard (1500)	*)	

19. You should then see the identification number labeled "Ethernet ID." Write this number down as being the hardware (MAC) address for the Ethernet card on your MAC.

Ethernet ID:	c8:2a:14:23:70:7f	
Configure:	Automatically	\$
Speed:		Å T
Duplex:	half-duplex	Å T
MTU:	Standard (1500)	Å.

20. Now that you have written the hardware (MAC) addresses of your network cards, go back to the webpage that you logged into above in point 6 of this document. You will need to register each MAC address separately. In the text box next to the label "Hardware (MAC) Address," input one of the values that you wrote down above for the Wired (Ethernet) and Wireless (Airport) hardware (MAC) addresses (see images below). (Note: The Auto-Detect function will only detect the MAC address of one of your cards if you have both wired and wireless, and the one that it will detect will be the one connected to the Internet. In addition, it has been known to sometimes fail and return unusual and unexpected results. We recommend just following the procedures in this tutorial. Enter the MAC address for the wired/Ethernet card first.)

Device Registration

Click the "Detect" button to enter the MAC address. Or and select register. All fields	detect the MAC Address of the de if you wish to register a different d must be filled in Hover your mou	vice you are currently using. If nothing evice, enter the MAC address of that d se of the question mark symbol for help	happens, you'll have to manually evice. Complete the remaining fields, o.		
Hardware (MAC) Address	Detect 00-12-3F-2	3-B2-8E	•		
Description			•		
Operating System	Select On	e	•		
Register					
The following devices are cu device. To change device in	urrently registered to your NetID. If formation, delete the device and r	you wish to un-register (delete) a devi e-register it.	ce, click the "Delete" button for that		
Device	Description	Ope	rating System		
00-92-37-AD-83-29	Test Computer - Ethernet	Wind	lows Delete		
For assistance, please contact the ITS Help Desk at 203-432-9000.					
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21. Next, type a helpful description in the box next to the label "Description." For example, it is usually helpful to list the brand of device (Dell, Lenovo, Acer, Apple, etc.), the type of device (laptop, netbook, desktop, iPad, Android smartphone), and which MAC address you are registering (wireless or Ethernet/wired). Also, choose the operating system that you are using (Windows, Mac, Linux, etc.) from the drop down box next to "Operating System."

Device Registration

Click the "Detect" button to de enter the MAC address. Or if y and select register. All fields m	tect the MAC Addres you wish to register a sust be filled in. Hove	as of the device you are currently using. If nothin a different device, enter the MAC address of that er your mouse of the question mark symbol for h	ng happens, you'll have to manually t device. Complete the remaining fields, elp.
Hardware (MAC) Address	Detect	00-12-3F-23-B2-8E	•
Description		Dell Laptop - Ethernet	•
Operating System		Select One	•
Register		Windows Mac Linux	
The following devices are curr device. To change device info	ently registered to y rmation, delete the c	Pod/Pad/Phone Android Device Kindle other mobile device Other OS	vice, click the "Delete" button for that
Device	Description	0	perating System
00-92-37-AD-83-29	Test Computer	- Ethernet W	indows Delete

For assistance, please contact the ITS Help Desk at 203-432-9000.

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22. Click "Register" once all fields are filled in.

		Device Registration		<u>Help</u>	
Click the "Detect" button to det enter the MAC address. Or if y and select register. All fields m	ect the MAC Addres ou wish to register a ust be filled in. Hove	as of the device you are currently using. If not a different device, enter the MAC address of t er your mouse of the question mark symbol fo	hing happens, you'll have to hat device. Complete the re r help.	o manually maining fields,	
Hardware (MAC) Address	Detect	00-12-3F-23-B2-8E		0	
Description		Dell Laptop - Ethernet		0	
Operating System		Windows	•	0	
Register					
The following devices are currently registered to your NetID. If you wish to un-register (delete) a device, click the "Delete" button for that device. To change device information, delete the device and re-register it.					
Device	Description		Operating System		
00-92-37-AD-83-29	Test Computer	- Ethernet	Windows De	lete	
For assistance, please contact the ITS Help Desk at 203-432-9000.					

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23. Once you click "Register," you should receive a message explaining that you have successfully registered that MAC address for Yale's networks. This registration is good for one academic year.

	I	Device Registration		<u>Help</u>		
Click the "Detect" button to detect the MAC Address of the device you are currently using. If nothing happens, you'll have to manually enter the MAC address. Or if you wish to register a different device, enter the MAC address of that device. Complete the remaining fields, and select register. All fields must be filled in. Hover your mouse of the question mark symbol for help.						
Hardware (MAC) Address	etect	00-12-3F-23-B2-87		•		
Description		Dell Laptop - Ethernet		•		
Operating System		Windows	•	•		
Register						
00-12-3F-23-B2-87 successfully registered ↓						
The following devices are currently registered to your NetID. If you wish to un-register (delete) a device, click the "Delete" button for that device. To change device information, delete the device and re-register it.						
Device	Description		Operating System			
00-92-37-AD-83-29	Test Computer -	Ethernet	Windows	Delete		
00-12-3F-23-B2-87	Dell Laptop - Eth	ernet	Windows	Delete		

For assistance, please contact the ITS Help Desk at 203-432-9000.



- 24. Repeat this process again from step 20 to register your wireless/airport network card.
- 25. If you are on campus, wait about half an hour and restart your computer. You should then be able to connect your computer to an Ethernet jack or connect wirelessly through the wireless network named "yalewireless." You are now done with Stage 2 Network Connectivity!