Wireless Configuration Guide: Windows 7

Additional "hopkins" wireless network instructions and requirements for Windows XP, Vista, Mac OS X, and Linux can be found at: http://www.it.johnshopkins.edu/services/networking/wireless/

The Johns Hopkins Institutions offer the **"hopkins"** wireless network to faculty, staff, students, or anyone with a valid JHED ID. The "hopkins" wireless network utilizes the 256-bit Advanced Encryption Standard (AES), and Microsoft's Internet Authentication Service (IAS) for authentication, to provide a higher level of security and access.

Requirements for Windows 7:

- 1. The network card you purchase must support the 802.11b and/or 802.11g protocol(s) as well as support WiFi Protected Access (WPA).
- 2. You must have the current drivers for your network card which are usually available from the PC vendor's web site.
- 3. Symantec Antivirus must be installed. It is free for Hopkins affiliates, and can be downloaded at <u>http://it.johnshopkins.edu/antivirus/</u>.

How do I find out my JHED account information?

The following steps will allow you to activate your JHED ID. You will need access to a wired (ethernet) connection.

Step 1: Open a web browser and go to <u>http://my.johnshopkins.edu</u>.

Step 2: Click the First Time JHED User link.

Step 3: Follow the instructions on the login page to find out your Login ID and to set your password.

JHED account and Active Directory credentials should be the same except for some grandfathered accounts. If you have issues with signing in when asked for your User ID and password, please contact the Help Desk, (410) 955-HELP, to correct the issue.

How to configure "hopkins" wireless for Windows 7:

Step 1: Click on the Start ICON

Click on **Network** from the menu.



Step 2: Select **Network and Sharing Center**.

O Q Q Q I I I I I I I I I I I I I I I I		• 4 ₇
Organize Network and Sharing	g Center Add a printer Add a wireless device	
Favorites	access to network settings.	

Step 3: Select **Manage wireless networks**.

Control Panel >	Network and Internet 🕨 Network and Sharing Center 👻 🍫
Control Panel Home	View your basic network information and set up connection
Manage wireless networks	
Change adapter settings	Internet
Change advanced sharing settings	(This computer)
	View your active networks
	You are currently not connected to any networ
	Change your networking settings
	Set up a new connection or network
	Set up a wireless, broadband, dial-up, ad hoc, or VPN connection; c
	Connect to a network
	Connect or reconnect to a wireless, wired, dial-up, or VPN network
	Choose homegroup and sharing options
	Access files and printers located on other network computers, or ch

Step 4: Click Add.

Manag	ge wireless ne	tworks that	use (Wireless Net	work Connectio	n)
Window	s tries to connect	to these netwo	ks in the order listed be	low.	
Add Ada	pter properties	Profile types	Network and Sharing	Center	
Add a w	ireless network				
·					



Manually connect to a wireless network	
How do you want to add a network?	
Manually create a network profile This creates a new network profile or locates an existing network and saves a profile for the network on your computer. You need to know the network name (SSID) and security key (if applicable).	
Create an ad hoc network This creates a temporary network for sharing files or an Internet connection	
(Cancel

Step 6: For **Network name**, enter **hopkins**. For Security type, select **WPA-Enterprise**. For **Encryption type**, select **AES**. Click the **Next** button.

Manually connect t	a wireless network	
Enter information	for the wireless network you want	to add
Network name:	hopkins	
Security type:	WPA-Enterprise 👻	
Encryption type:	[AES ▼	
Security Key:		Hide characters
📝 Start this conne	tion automatically	
🔲 Connect even if	the network is not broadcasting	
Warning: If you	select this option, your computer's privacy mig	ght be at risk.



Successfully ad	ded hopkins	
Change	connection cottings	
Open the	connection properties so that I can change the settir	igs.
1		

Step 8: Make sure the first box is **checked**. Select the **Security** tab at top.

hopkins Wireless Netwo	ork Properties
Connection Security	
Name:	hopkins
SSID:	hopkins
Network type:	Access point
Network availability:	All users
🔽 Connect automati	cally when this network is in range
Connect to a more	e preferred network if available
Connect even if th	ne network is not broadcasting its name (SSID)
2	
	OK Cancel

Step 9: For **Security type**, select **WPA-Enterprise**. For **Encryption type**, select **AES**. Choose **PEAP** for **authentication method**. Check the box for "Remember my credentials." Click on Settings...

hopkins Wireless Netwo	ork Properties	×
Connection Security		
Security type: Encryption type:	WPA-Enterprise AES	
Choose a network au	thentication method:	
Microsoft: Protected	EAP (PEAP)	
Remember my cre time I'm logged or	dentials for this connection each I	
	•	
Advanced settings		
	ОК Са	ncel

Step 10: Check "Validate Server Certificate." **Check** "Equifax Secure Certificate Authority." **Select** "Secured password EAP-MSCHAPV2." **Check** "Enable Fast Reconnect." **Click** on **Configure...**

Protected EAP Properties	
When connecting: Validate server certificate Connect to these servers:	
Trusted Root Certification Authorities:	
 Class 3 Public Primary Certification Authority Entrust.net Secure Server Certification Authority Equifax Secure Certificate Authority Equifax Secure Global eBusiness CA-1 GlobalSign Root CA GTE CyberTrust Global Root http://www.valicert.com/ 	
Do not prompt user to authorize new servers or trusted certification authorities.	
Select Authentication Method:	
Secured password (EAP-MSCHAP v2) Configure Enable Fast Reconnect Enforce Network Access Protection Disconnect if server does not present cryptobinding TLV Enable Identity Privacy	
OK Cancel	

Step 11: Uncheck the box next to "Automatically use my Windows logon" Click **OK**. Click **OK** on Protected EAP properties box.

EAP MSCHAPv2 Properties	x
When connecting:	
Automatically use my Windows logon n password (and domain if any).	ame and
OK Cancel]

Step 12: Back on the "hopkins wireless network properties" window, click on **Advanced settings...**

Security type: WPA-Enterprise Encryption type: AES Choose a network authentication method: Microsoft: Protected EAP (PEAP) Remember my credentials for this connection each time I'm logged on Advanced settings	nnection Security]			
Encryption type: AES Choose a network authentication method: Microsoft: Protected EAP (PEAP) Certain Settings Remember my credentials for this connection each time I'm logged on Advanced settings	Security type:	WPA-Enterpris	e		•
Choose a network authentication method: Microsoft: Protected EAP (PEAP) ▼ Settings Remember my credentials for this connection each time I'm logged on Advanced settings	Encryption type:	AES		,	-
Remember my credentials for this connection each time I'm logged on Advanced settings	Choose a network au Microsoft: Protected	uthentication met JEAP (PEAP)	hod:	Settings	
Advanced settings	Concern and the second second second				
Advanced settings	Remember my cru time I'm logged ol	edentials for this n	connection	n each	
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	 Remember my crutime I'm logged o Advanced setting 	edentials for this n	connection	n each	

Step 13: Check the first box "Specify authentication mode." Then choose the "User authentication" option. Then click on **Save credentials...**

User authentication	Save	e credentials
Enable single sign on for this net	work	
Perform immediately before up	user logon	
Perform immediately after us	er logon	
Maximum delay (seconds):	10	*
Allow additional dialogs to be sign on	displayed durir	ng single
This network uses separate and user authentication	virtual LANs for	machine

Step 14: Enter WIN\[your JHED ID] and password.

Save crede	ntials	
Saving your c	edentials allows your computer to co	onnect to the network
when you're i	ot logged on (for example, to downl	oad updates).
	WIN/JHED_ID	
		Ξ

Step 15: Click OK three times to save all the settings. Go to main desktop

Step 16: You should connect automatically. If not, click the wireless icon on the task bar and **Connect** to the "hopkins" network.

Not connected	÷,
Connections are available	
Wireless Network Connection	^
hopkins	lte.
(<u>C</u> onnect
	-
Open Network and Sharing	Center
	-
- 🖹 🖉 🕌 🐝	8:13 AM

Step 17: You can check your connection status on the task bar.



You are now on the network!

JHARS Registration Required for First-Time Users:

Step 18: Open a new web browser window. If this is your FIRST time connecting to a wireless network at Johns Hopkins, you will be directed to our JHARS registration website. If you are not redirected, please type <u>http://jhars.nts.jhu.edu</u>. Click **Log On** to continue.



Step 19: You may be prompted by a certificate warning, depending on what version and type of web browser you are using. Please click **Continue to this website**.



Step 20: Enter your JHED logon credentials and click **Login** to access the registration process.



Step 21: Click on Register DYNAMIC IP.

G JHARS: The Johns Hopkins Address Registration System - Windows Internet Explorer				
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🚖 🎄 🎉 JHARS: The Johns Hopkins Address Registration S 🖄 🔻 🗟 🔻 🖶 👻 📴 Page 🔫 🍈 T <u>o</u> ols 🔫 🎽				
IOHNS HOPKINS		^		
JHARS: The Johns Hopkins Address Registration System		E		
IP Address Acquisition:				
JHARS will permit your desktop or laptop to connect to the Johns Hopkins network via a dynamic static IP address. Most users will only require a dynamic IP address to get started. Please choose register a dynamic IP address or to request a static IP address.	or e to			
Register DYNAMIC IP Register a dynamic IP address for your workstation/laptop				
Request a static IP address/DNS entry for your server, printer, or othe equipment	ər			
Subnet Migration Schedule				
	10	T		
🔯 🚭 Internet Protected Mode: On 🔍 100% 👻				

Step 22: Select your Equipment Type and Operating System and click Next.

HI 🥱	ARS: The Johns Hopkins Address Registration System - Windows Internet Explorer					
0	🕖 🔻 😰 https://jhars.nts.jhu.edu/JHARS/publicSignupDH 🔻 😵 Certificate Error 🍫 🔀 <i>Live Search</i>	۶ -				
🚖 🏟 🌈 JHARS: The Johns Hopkins Address Registration S 🖄 🔻 🔝 👻 🖶 🔹 📴 Page 👻 🍈 Tools 👻						
IC	OHNS HOPKINS	^				
JHARS: The Johns Hopkins Address Registration System						
	Register For A Dynamic IP Address					
	Note:					
	1. This is a one time registration process per system.					
	 The system you are registering must be properly configured for DHCP. You will be required to reboot the system after the registration process is complete. 					
	Choose your Equipment Type and Operating System from the drop-down boxes below.					
	Equipment Type:					
	Operating System:					
	Next DTE: Please be patient this process could take a few seconds to complete.					
	Color indicates required field.					
	You are now in Administrative Mode	-				
	Please remember to <u>Log Off</u> when done.					
Done	👩 🖨 Internet Protected Mode: On 🤄	-				
Done	🔯 🚭 Internet Protected Mode: On 🤄	100% 👻 📑				

🖉 JHARS: The Johns Hopkins Address Registration System - Windows Internet Explorer 🍋 🕞 💌 🙋 https://jhars.nts.jhu.edu/JHARS/publicSignupDF 👻 🐼 Certificate Error 🚱 🔀 Live Search P ŵ 4 # JHARS: The Johns Hopkins Address Registration S... 🟠 🔻 🔝 👻 🖶 👻 🔂 <u>P</u>age 🕶 🍈 T<u>o</u>ols 🕶 IOHNS HOPKINS JHARS: The Johns Hopkins Address Registration System **Register For A Dynamic IP Address** Submission complete. You must now reboot the system to complete the registration process. After reboot, you will have access to the Hopkins network. If you experience any problems, please call the Hopkins Support Center at: 410-516-HELP. Return You are now in Administrative Mode. Please remember to <u>Log Off</u> when done **a** 100% Done 🔞 🌏 Internet | Protected Mode: On

Step 23: Please Reboot to conclude the registration process.

Where do I get additional help?

Technical Assistance

Garland Hall Basement Hours M-F 8AM-5PM

Krieger Computer Lab

Krieger Hall Room 160 Hours Sunday 10AM-Friday 10PM, Saturday 10AM-10PM

Contact the Support Center at:

(410)955-HELP [(410)955-4357] (410)516-HELP [(410)516-4357] (443)997-HELP [(443)997-4357]

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