

# Wireless @ Johns Hopkins

## Wireless Configuration Guide:

### Windows 10

Additional **hopkins** wireless network instructions and requirements for Windows XP, Vista, 7, Mac OS X, Linux, and other Mobile versions can be found at:

<http://www.it.johnshopkins.edu/services/network/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 WiFi Protected Access (WPA2) with 256-bit Advanced Encryption Standard (AES), to provide a high level of security and access.

### Requirements for Windows 10:

1. The network card must support the 802.11a/g and/or 802.11n protocol(s) as well as support WiFi Protected Access (WPA2-Enterprise).
2. You must have the current drivers for your network card which are usually available from the PC vendor's web site.
3. Microsoft System Center Endpoint Protection (SCEP) must be installed. It is free for Hopkins affiliates, and can be downloaded at <http://it.johnshopkins.edu/antivirus/>.

### 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 <http://my.johnshopkins.edu>.

**Step 2:** Click the **First Time JHED User** link.

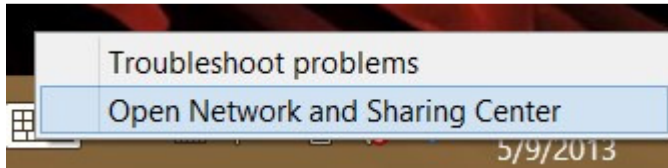
**Step 3:** Follow the instructions on the login page to find out your Login ID and to set your password.

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.

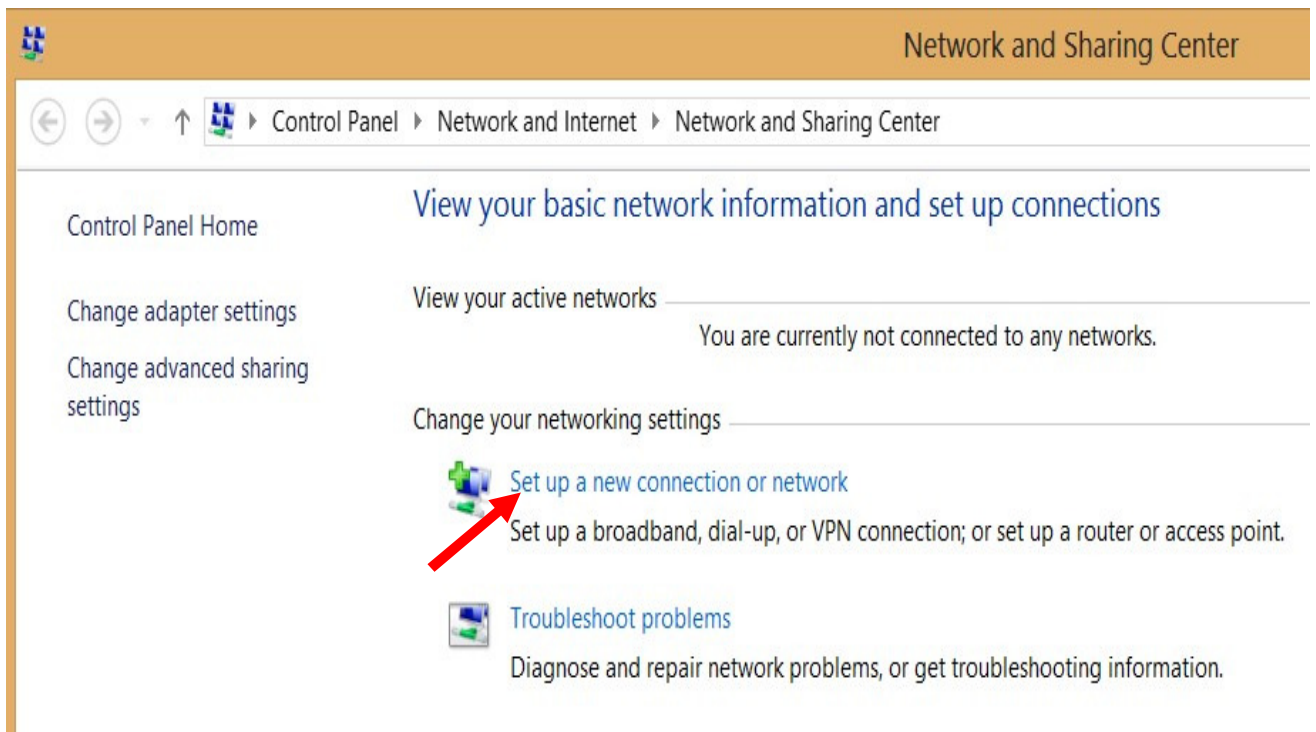
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### How to configure “hopkins” wireless for Windows 10:

**Step 1:** Right click on the wireless icon (or network connection icon) at the bottom right of the screen and select **Open Network and Sharing Center**.

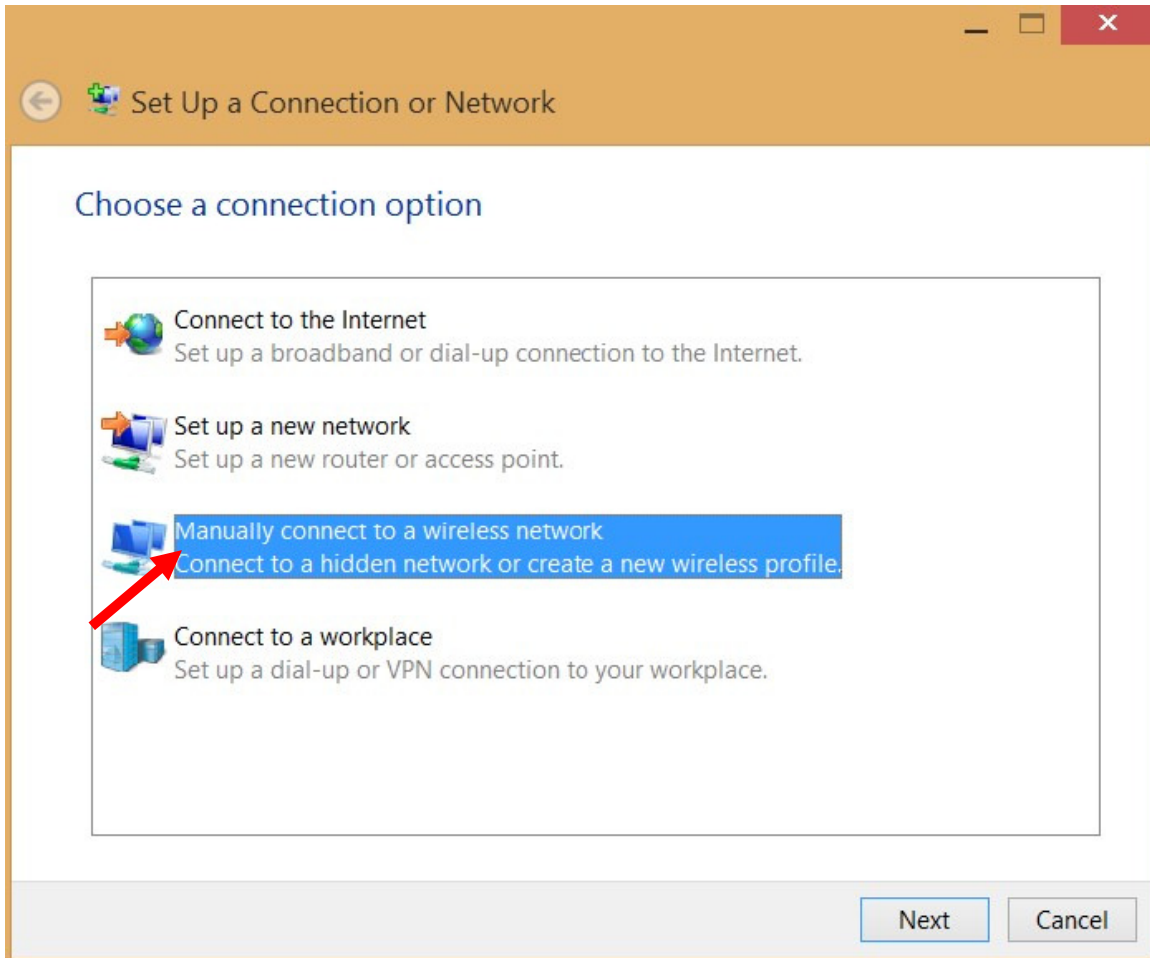


**Step 2:** Select **Set up a new connection or network**.



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**Step 3:** Select **Manually connect to a wireless network**.



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**Step 4:** For **Network name**, enter **hopkins**. For **Security type**, select **WPA2-Enterprise**. For **Encryption type**, select **AES**. Click the **Next** button.

Manually connect to a wireless network

Enter information for the wireless network you want to add

Network name:

Security type:

Encryption type:

Security Key:   Hide characters

Start this connection automatically

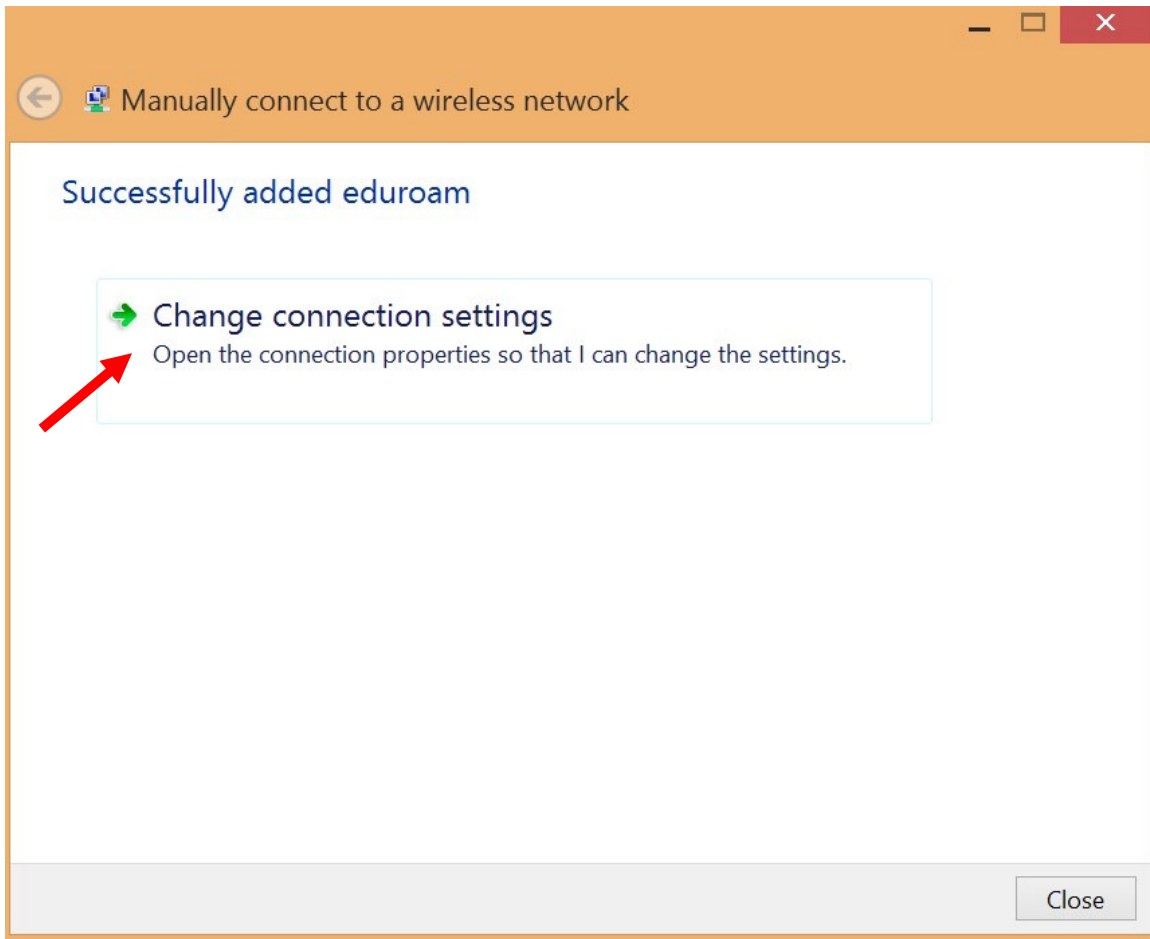
Connect even if the network is not broadcasting

Warning: If you select this option, your computer's privacy might be at risk.

Next Cancel

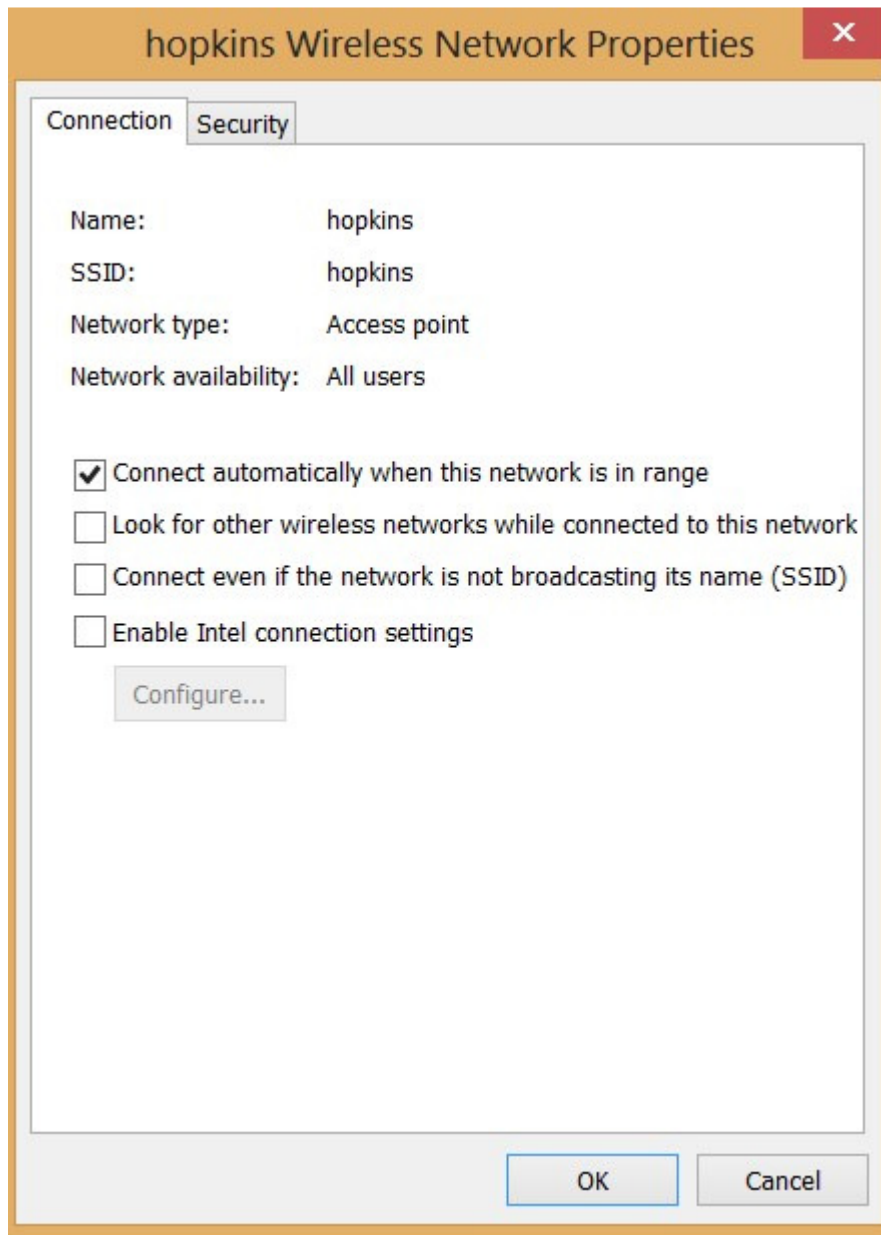
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**Step 5:** Select **Change connection settings**.



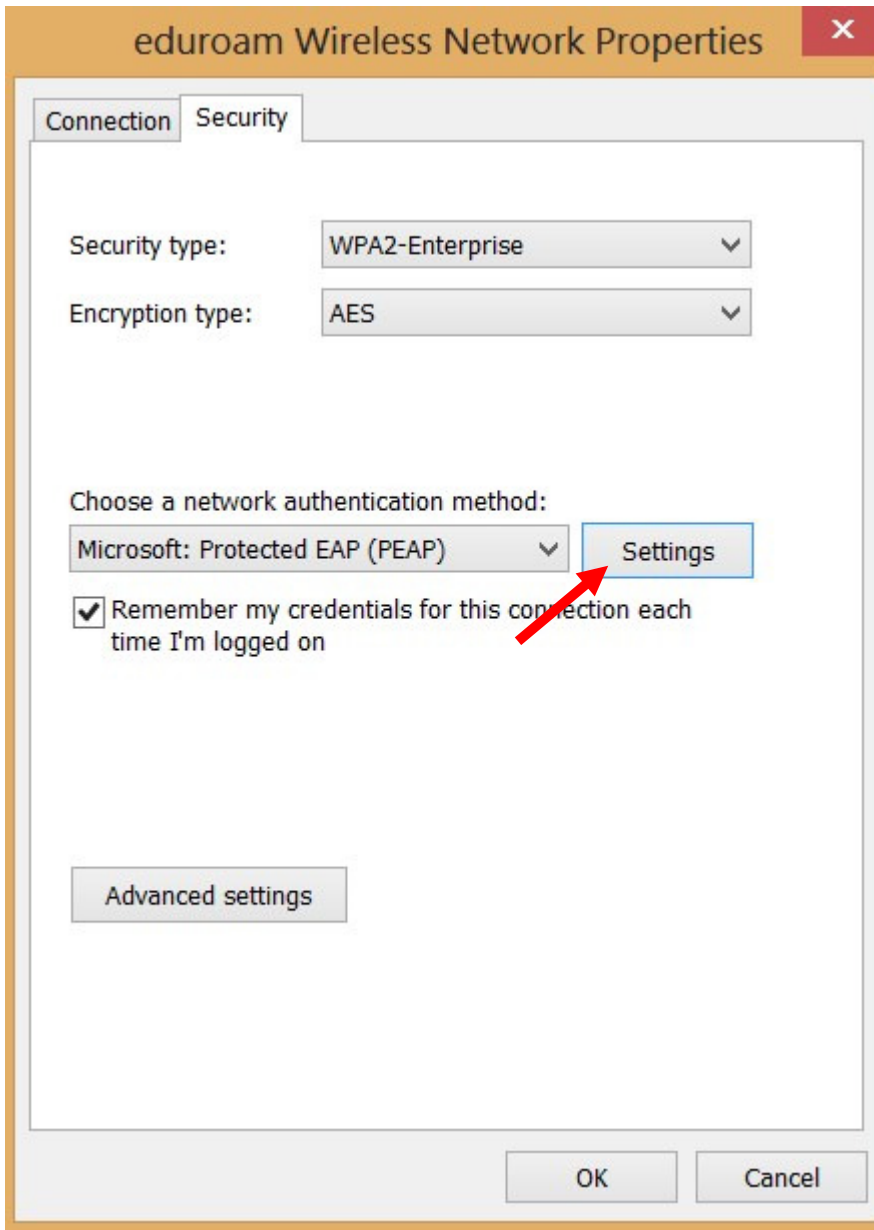
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**Step 6:** Confirm selections below and click on **Security**.



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**Step 7:** For **Security type**, select **WPA2-Enterprise**. For **Encryption type**, select **AES**. Choose **PEAP** for **authentication method**. Check the box for “Remember my credentials.” Click on **Settings**.



The screenshot shows the 'eduroam Wireless Network Properties' dialog box with the 'Security' tab selected. The 'Security type' is set to 'WPA2-Enterprise' and the 'Encryption type' is set to 'AES'. Under 'Choose a network authentication method:', 'Microsoft: Protected EAP (PEAP)' is selected, and the 'Settings' button is highlighted with a red arrow. The checkbox 'Remember my credentials for this connection each time I'm logged on' is checked. An 'Advanced settings' button is located at the bottom left, and 'OK' and 'Cancel' buttons are at the bottom right.

eduroam Wireless Network Properties

Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP) Settings

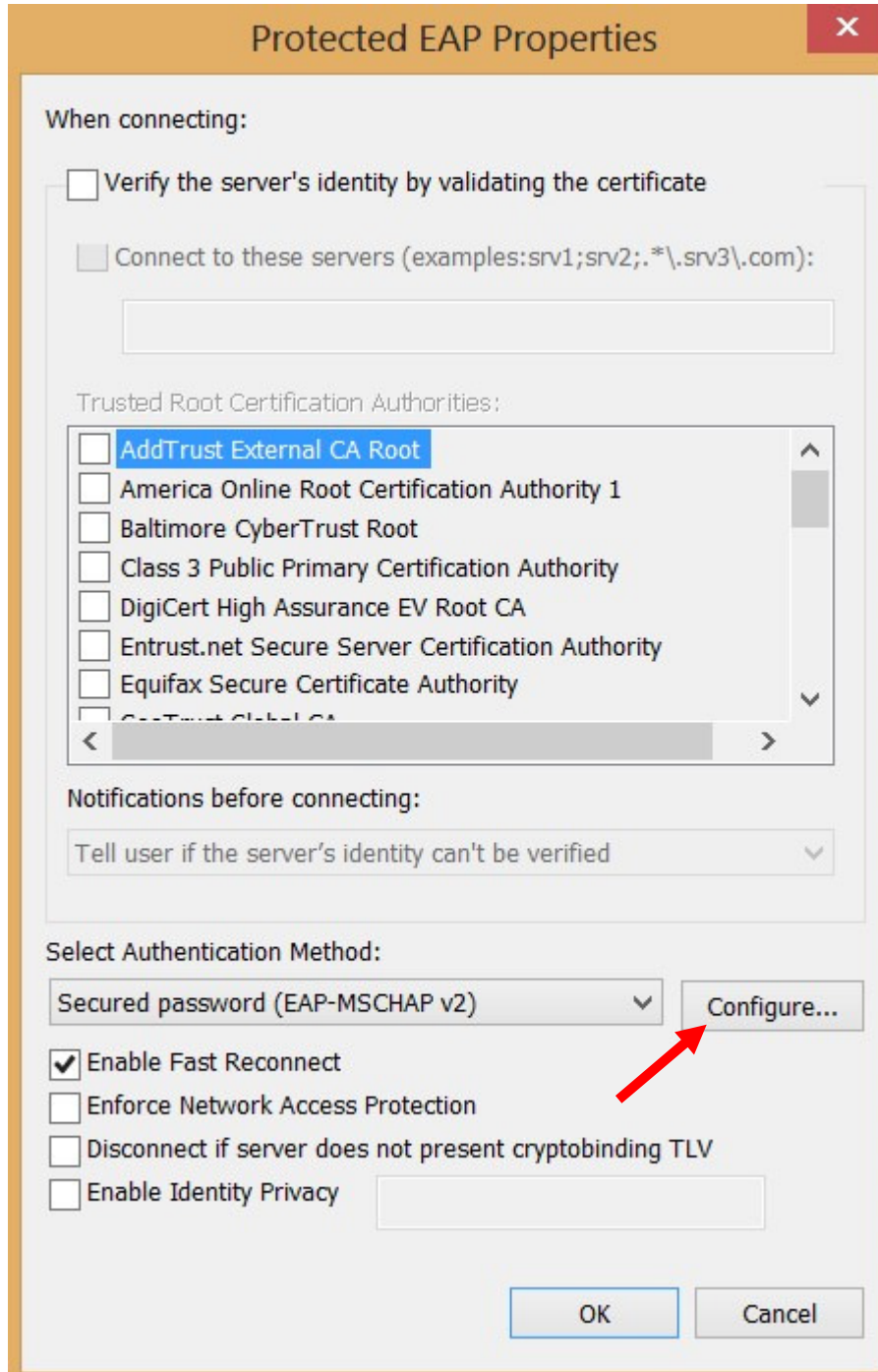
Remember my credentials for this connection each time I'm logged on

Advanced settings

OK Cancel

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**Step 8: Uncheck** any boxes in “Trusted Root Certification Authorities,” then **uncheck** “Verify server’s identity.” **Select** “Secured password EAP-MSCHAPV2.” **Check** “Enable Fast Reconnect.” **Click on Configure.**



The image shows a Windows dialog box titled "Protected EAP Properties" with a close button (X) in the top right corner. The dialog is divided into several sections:

- When connecting:**
  - Verify the server's identity by validating the certificate
  - Connect to these servers (examples: srv1;srv2;.\*\srv3\.com):
  - Trusted Root Certification Authorities:
    - AddTrust External CA Root
    - America Online Root Certification Authority 1
    - Baltimore CyberTrust Root
    - Class 3 Public Primary Certification Authority
    - DigiCert High Assurance EV Root CA
    - Entrust.net Secure Server Certification Authority
    - Equifax Secure Certificate Authority
    - GeoTrust Global CA
- Notifications before connecting:

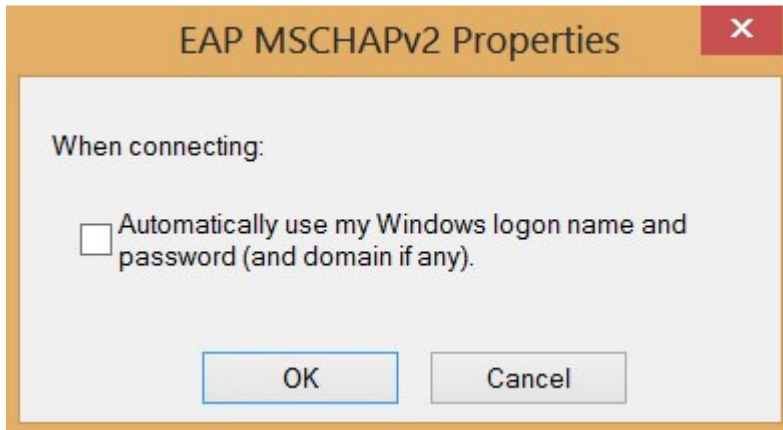
- Select Authentication Method:**
- 
- Enable Fast Reconnect
- Enforce Network Access Protection
- Disconnect if server does not present cryptobinding TLV
- Enable Identity Privacy

At the bottom of the dialog are two buttons: "OK" and "Cancel". A red arrow points to the "Configure..." button next to the authentication method dropdown.



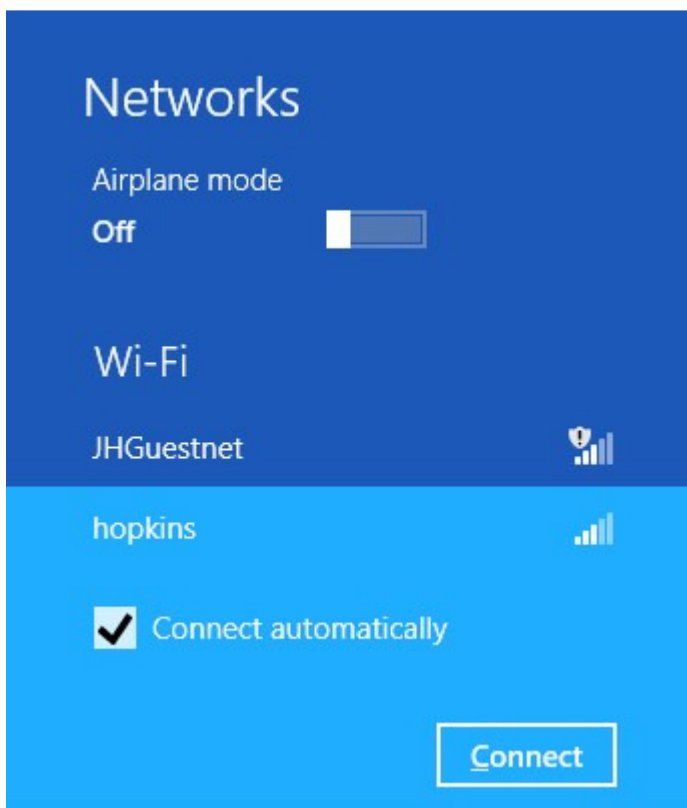
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**Step 9:** Make sure the box is unchecked. Click **OK**.



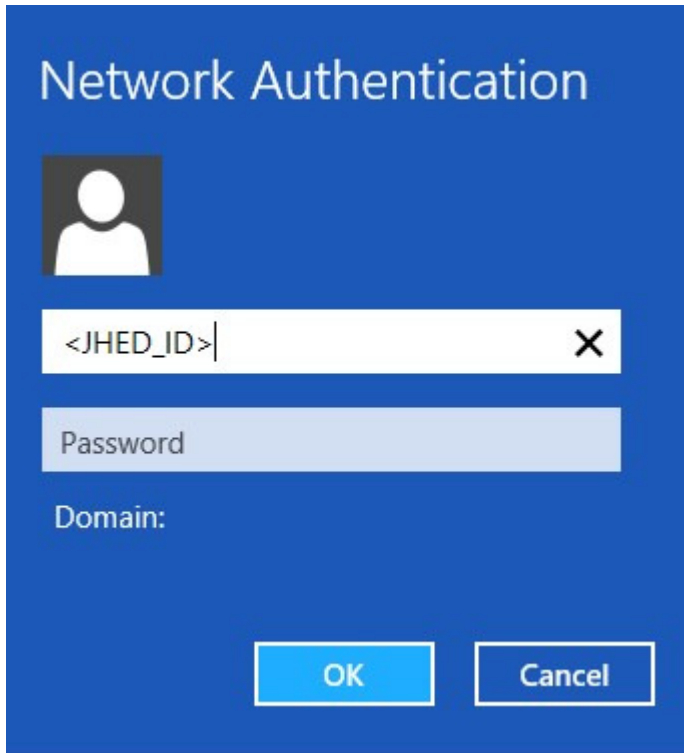
Click through the remaining screens to return to the desktop.

**Step 10:** Click on the wireless icon on the bottom right of the screen and select **hopkins**.




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**Step 11:** The following window should pop-up. Enter your **JHED\_ID** and **password**.



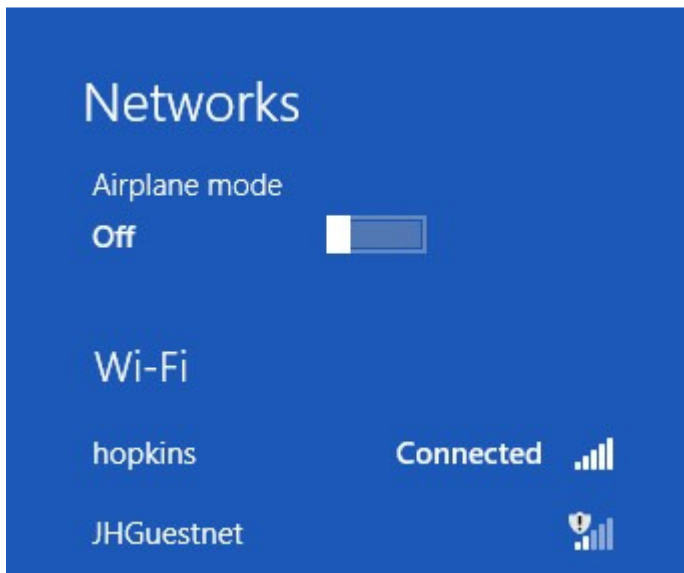
Network Authentication



<JHED\_ID>

Password

Domain:



**You are now on the network!**

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### Where do I get additional help?

#### Technical Assistance (walk-up)

Garland Hall Basement

Monday - Friday 9:00 AM - 4:00PM

#### Contact the Support Center at:

(410)955-HELP [(410)955-4357] Johns Hopkins East Baltimore

(410)516-HELP [(410)516-4357] Johns Hopkins Homewood Campus

(443)997-HELP [(443)997-4357] Johns Hopkins Mount Washington