

# Wireless @ Johns Hopkins

## Wireless Configuration Guide:

### Windows 8

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 8:

1. The network card must support the 802.11b and/or 802.11g 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>.

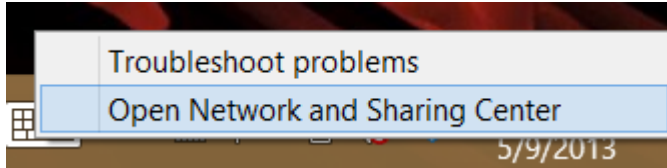
**Step 2:** Click the **First Time JHED User** link.

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

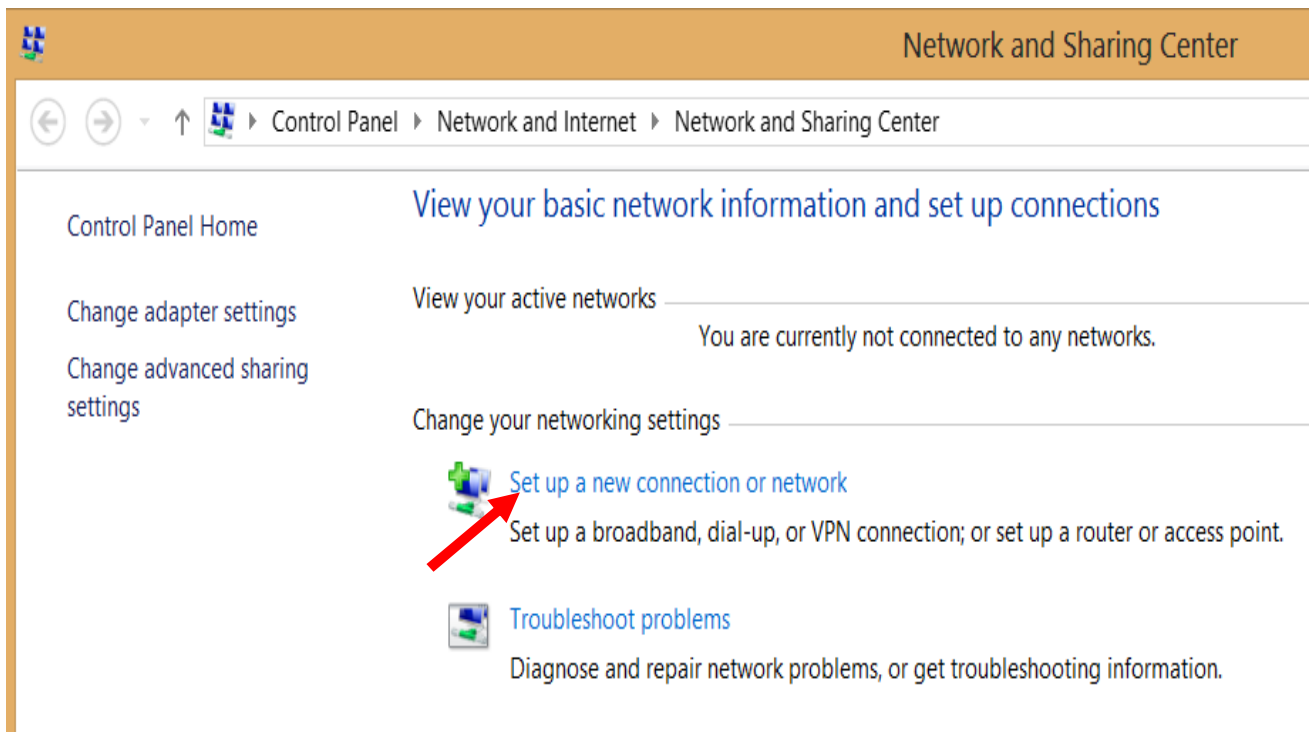
JHED account and Active Directory credentials should be the same except for some grandfathered accounts. If you have issues with signing in when asked for your User ID and password, please contact the Help Desk, (410) 955-HELP, to correct the issue.

### How to configure “hopkins” wireless for Windows 8:

**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**.

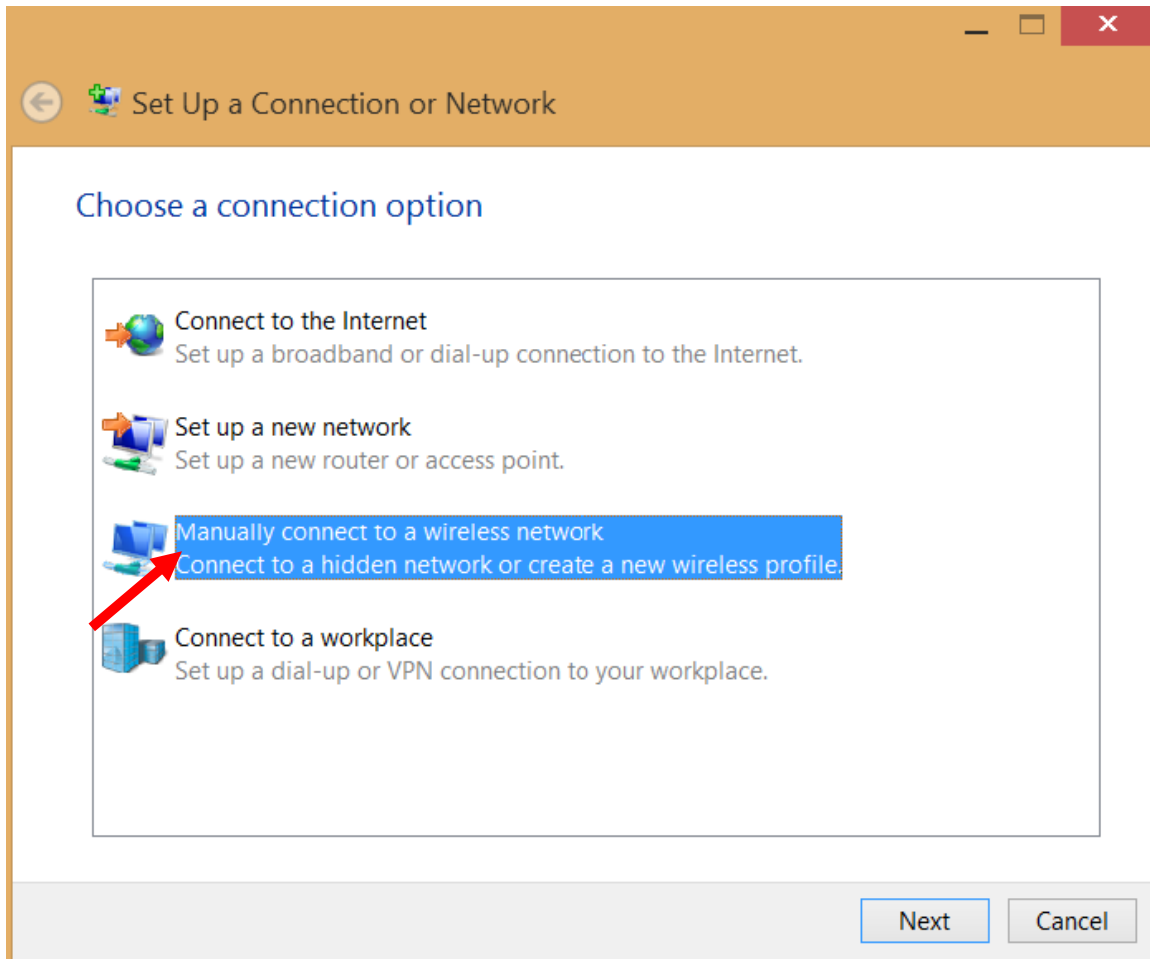


**Step 2:** Select **Set up a new connection or network**.



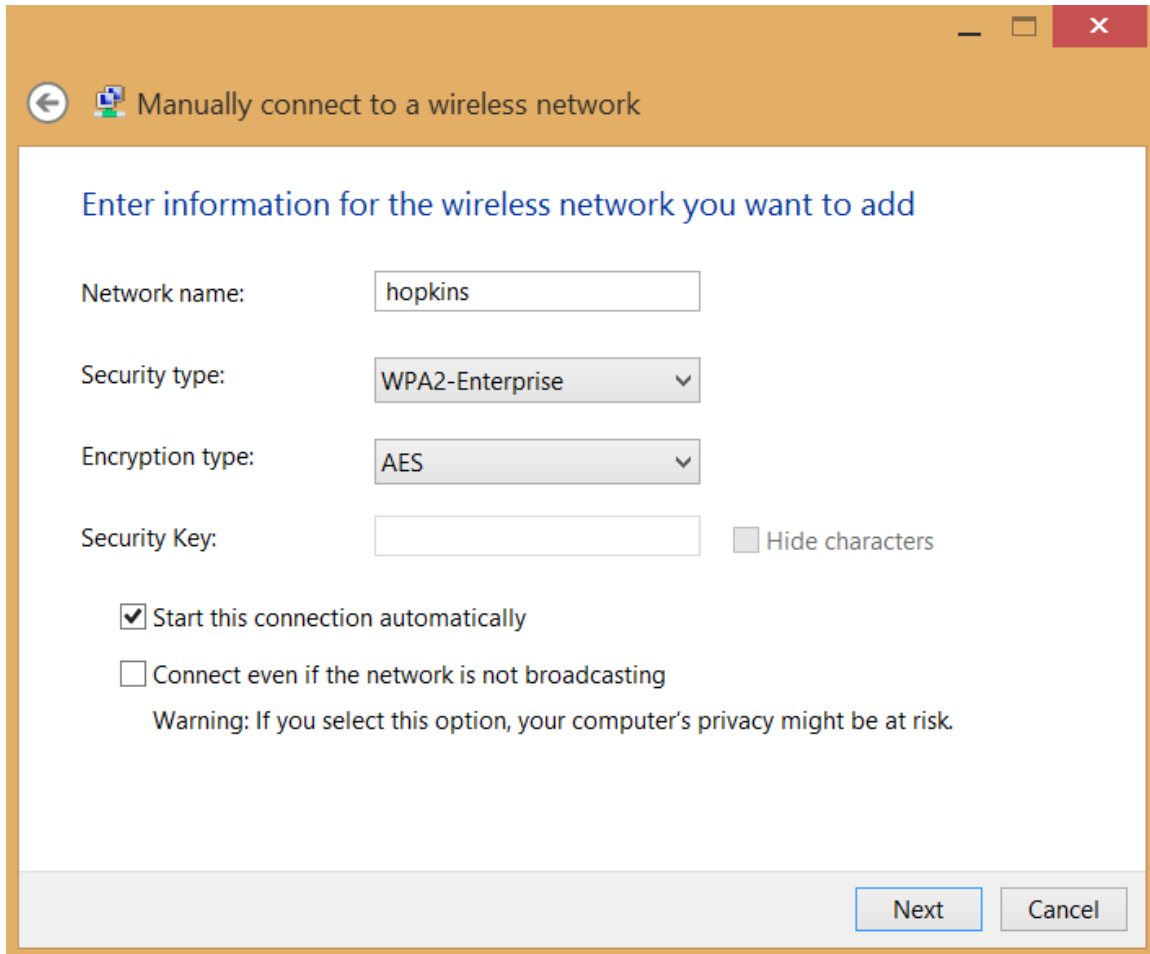
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**Step 3:** Select **Manually connect to a wireless network**.



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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.



The screenshot shows a Windows dialog box titled "Manually connect to a wireless network". The dialog box has a title bar with standard Windows window controls (minimize, maximize, close). Below the title bar, there is a back arrow icon and the title "Manually connect to a wireless network". The main content area is titled "Enter information for the wireless network you want to add". It contains four input fields: "Network name" with the text "hopkins", "Security type" with a dropdown menu showing "WPA2-Enterprise", "Encryption type" with a dropdown menu showing "AES", and "Security Key" with an empty text box. To the right of the "Security Key" field is a checkbox labeled "Hide characters". Below these fields are two checkboxes: "Start this connection automatically" (checked) and "Connect even if the network is not broadcasting" (unchecked). Below the second checkbox is a warning message: "Warning: If you select this option, your computer's privacy might be at risk." At the bottom right of the dialog box are two buttons: "Next" and "Cancel".

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

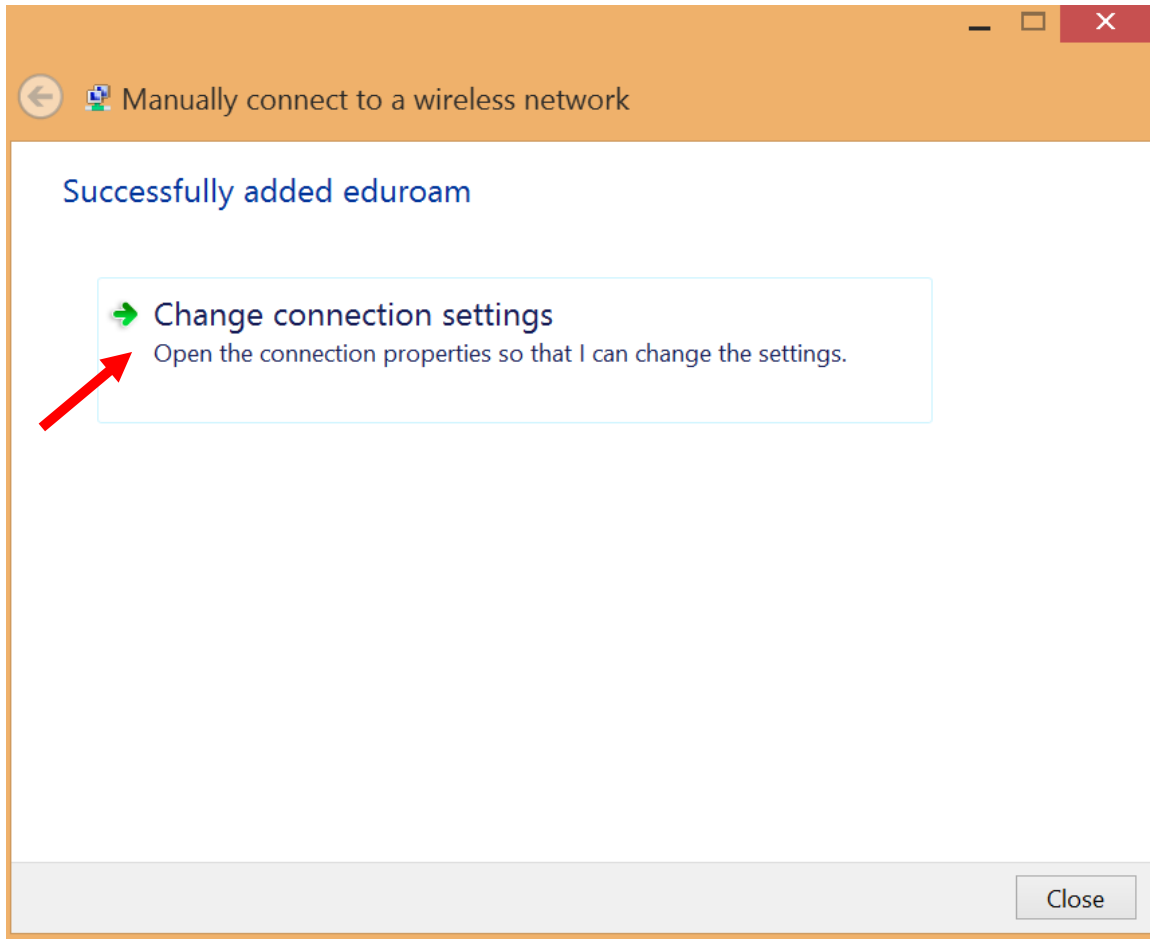
☐ Connect even if the network is not broadcasting

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

Next Cancel

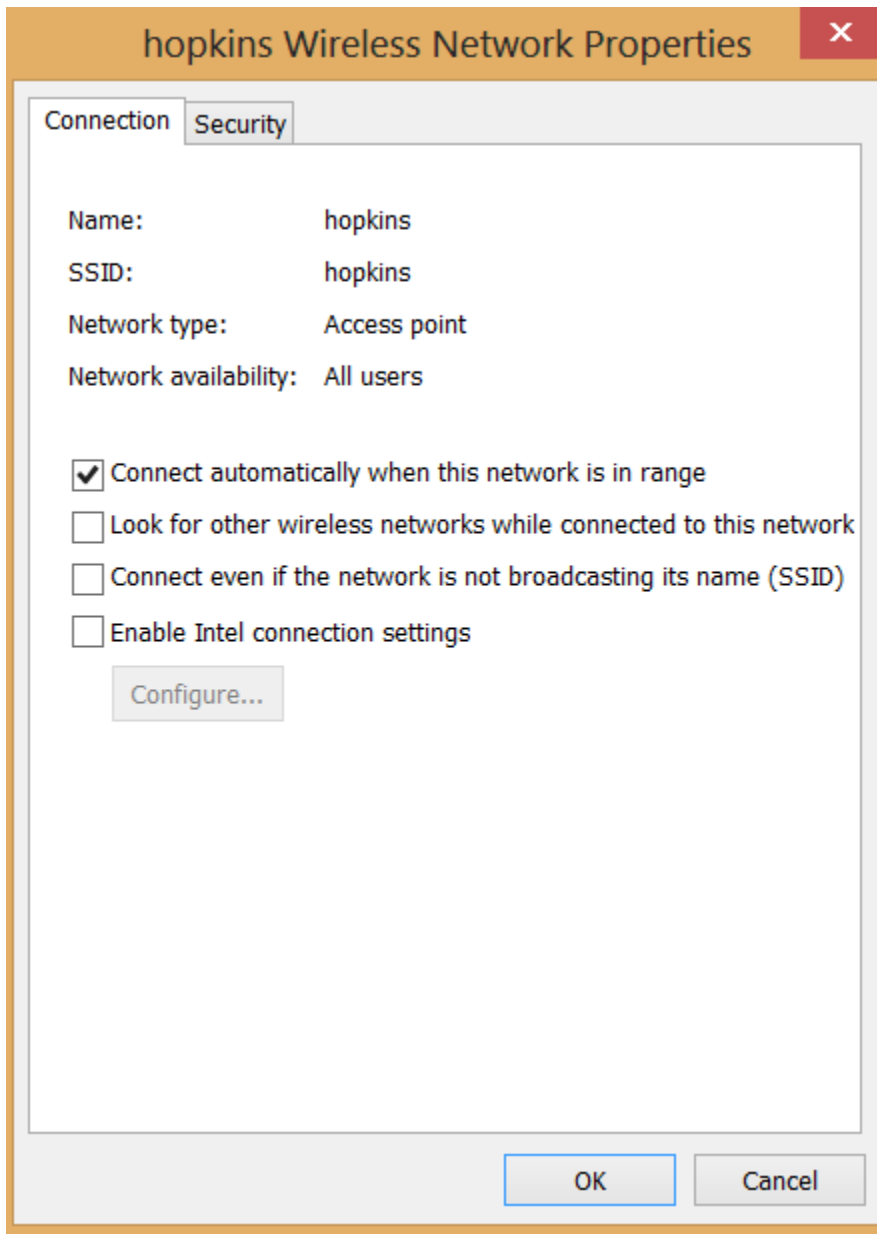
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**Step 5:** Select **Change connection settings**.



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

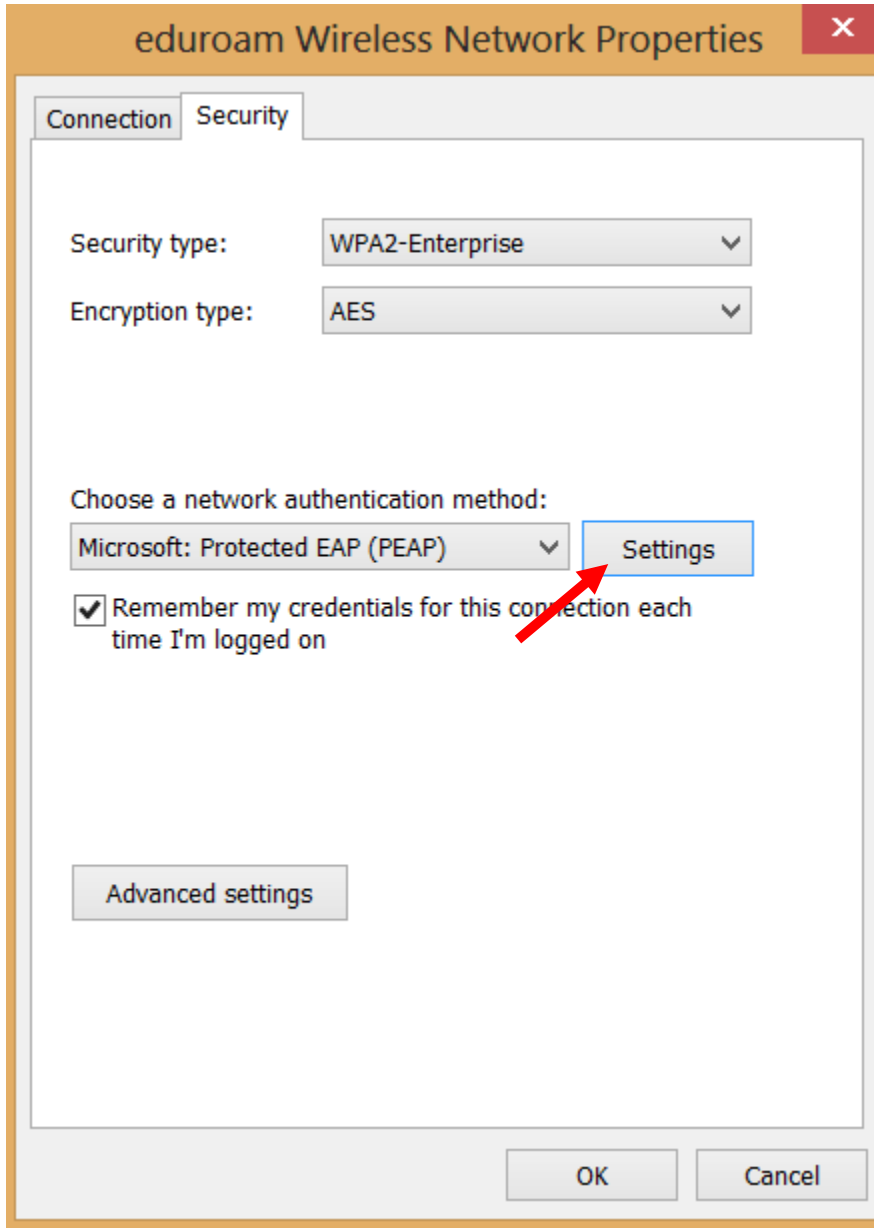


The screenshot shows a Windows-style dialog box titled "hopkins Wireless Network Properties". It has two tabs: "Connection" and "Security", with "Security" currently selected. The dialog contains the following fields and options:

- Name: hopkins
- SSID: hopkins
- Network type: Access point
- Network availability: All users
- ☒ Connect automatically when this network is in range
- ☐ Look for other wireless networks while connected to this network
- ☐ Connect even if the network is not broadcasting its name (SSID)
- ☐ Enable Intel connection settings
- Configure... button
- OK button
- Cancel button

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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. A red arrow points to the 'Settings' button next to the PEAP selection. The checkbox 'Remember my credentials for this connection each time I'm logged on' is checked. There is also an 'Advanced settings' button and 'OK' and 'Cancel' buttons at the bottom.

eduroam Wireless Network Properties

Connection Security

Security type: WPA2-Enterprise

Encryption type: AES

Choose a network authentication method:

Microsoft: Protected EAP (PEAP) Settings

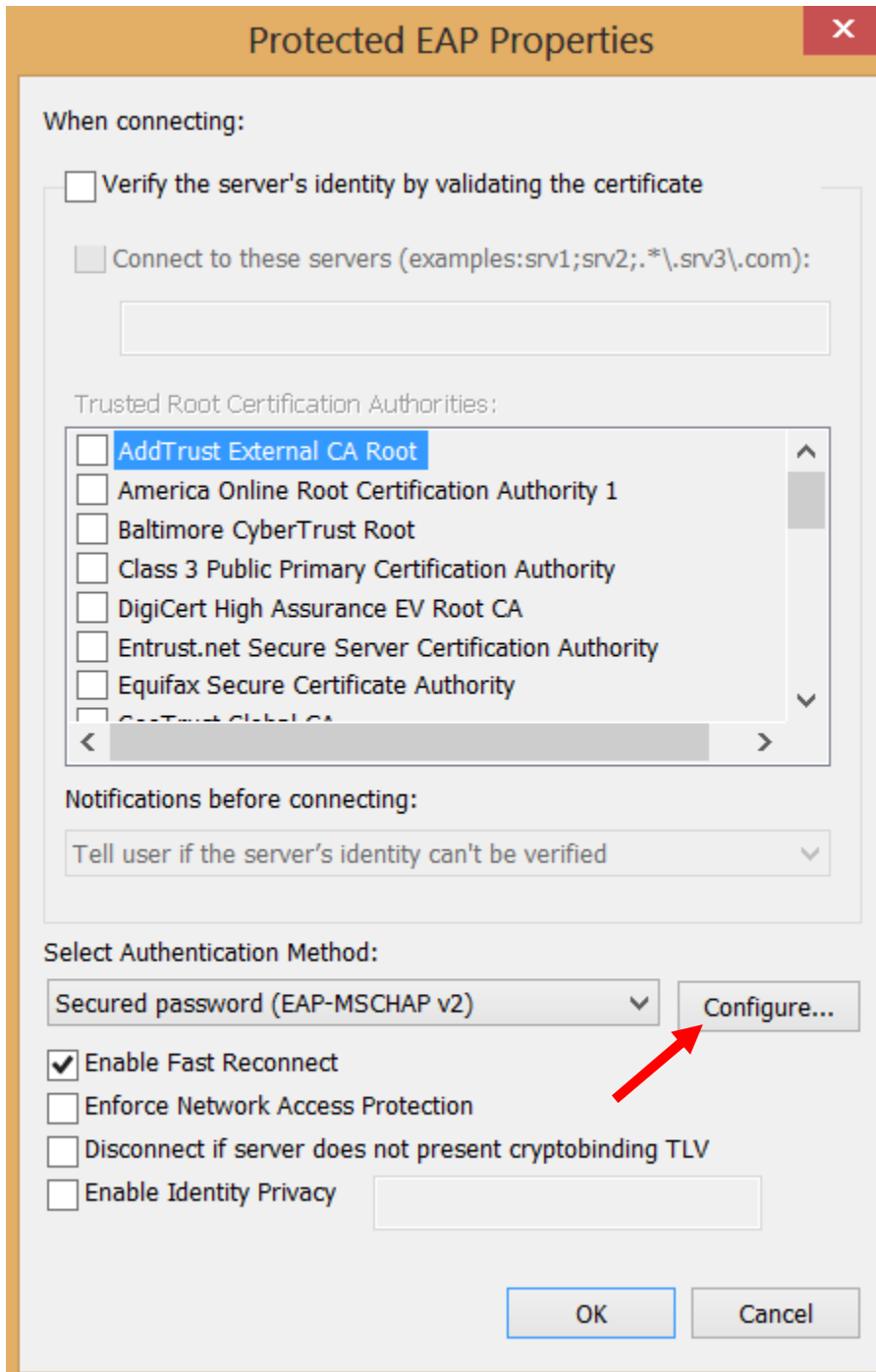
☒ Remember my credentials for this connection each time I'm logged on

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 the "Protected EAP Properties" dialog box. It has a title bar with a close button (X). The dialog is divided into several sections:

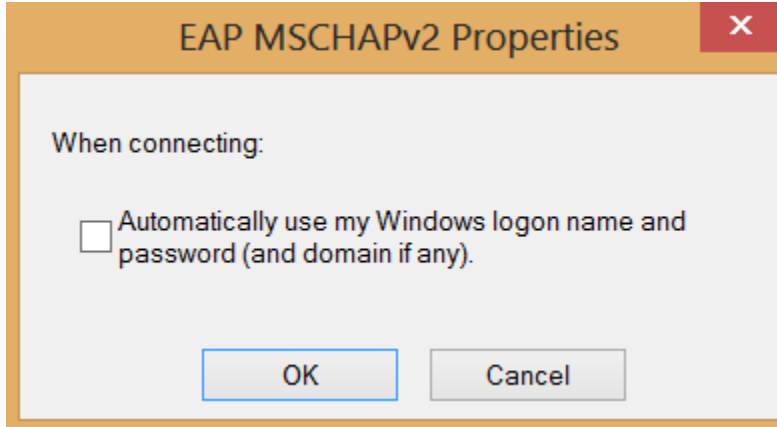
- When connecting:**
  - ☐ Verify the server's identity by validating the certificate
  - ☐ Connect to these servers (examples: srv1;srv2;.\*\srv3\.com):
  - Trusted Root Certification Authorities:**
    - ☐ AddTrust External CA Root
    - ☐ America Online Root Certification Authority 1
    - ☐ Baltimore 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:**
  - Tell user if the server's identity can't be verified
- Select Authentication Method:**
  - Secured password (EAP-MSCHAP v2) [v]
  - ☒ Enable Fast Reconnect
  - ☐ Enforce Network Access Protection
  - ☐ Disconnect if server does not present cryptobinding TLV
  - ☐ Enable Identity Privacy

A red arrow points to the "Configure..." button next to the "Secured password (EAP-MSCHAP v2)" dropdown. At the bottom are "OK" and "Cancel" buttons.



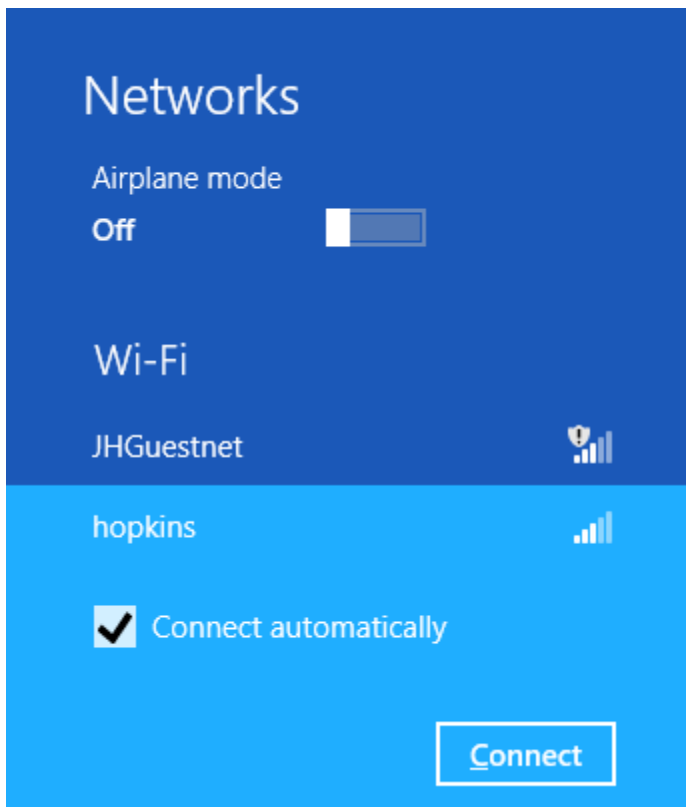
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**Step 9:** Make sure the box is unchecked. Click **OK**.



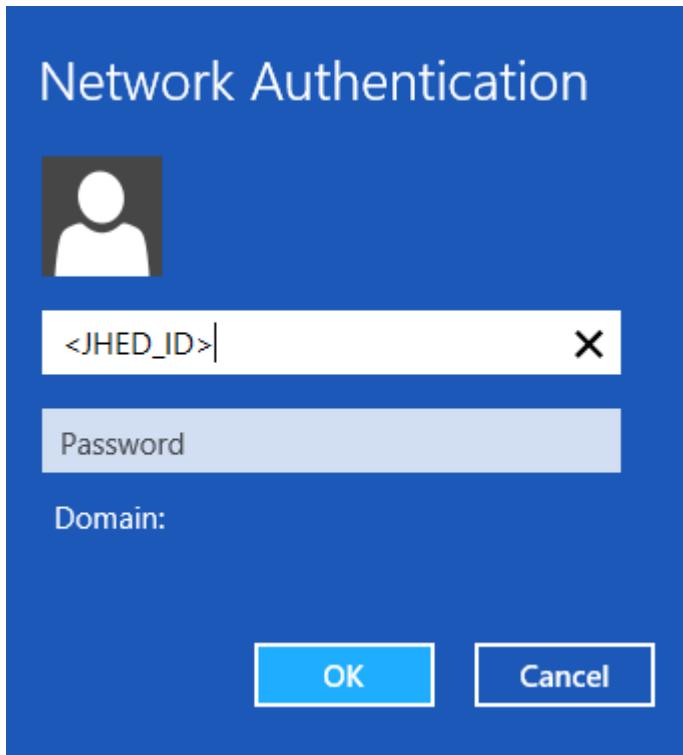
Click through the remaining screens to return to the desktop.

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

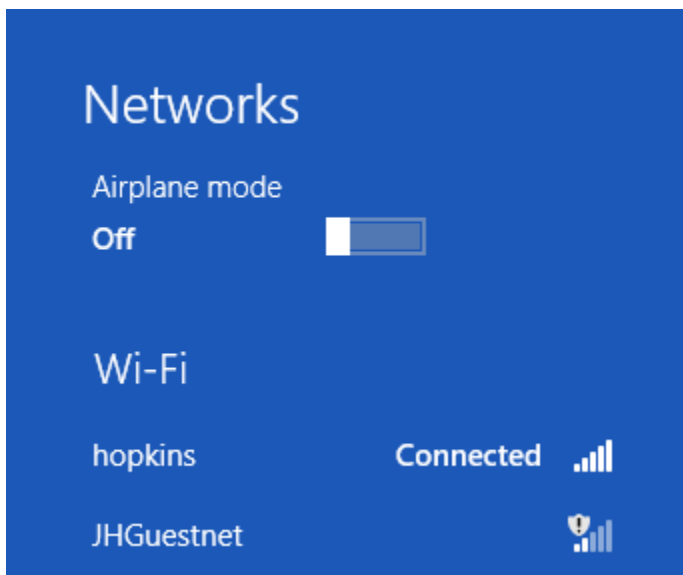


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**Step 11:** The following window should pop-up. Enter your **JHED\_ID** and **password**.



A blue dialog box titled "Network Authentication". It features a white silhouette icon of a person. Below the icon is a text input field containing "<JHED\_ID>" with a cursor at the end and a close button (X) on the right. Underneath is a password input field labeled "Password". Below that is the text "Domain:". At the bottom are two buttons: "OK" and "Cancel".

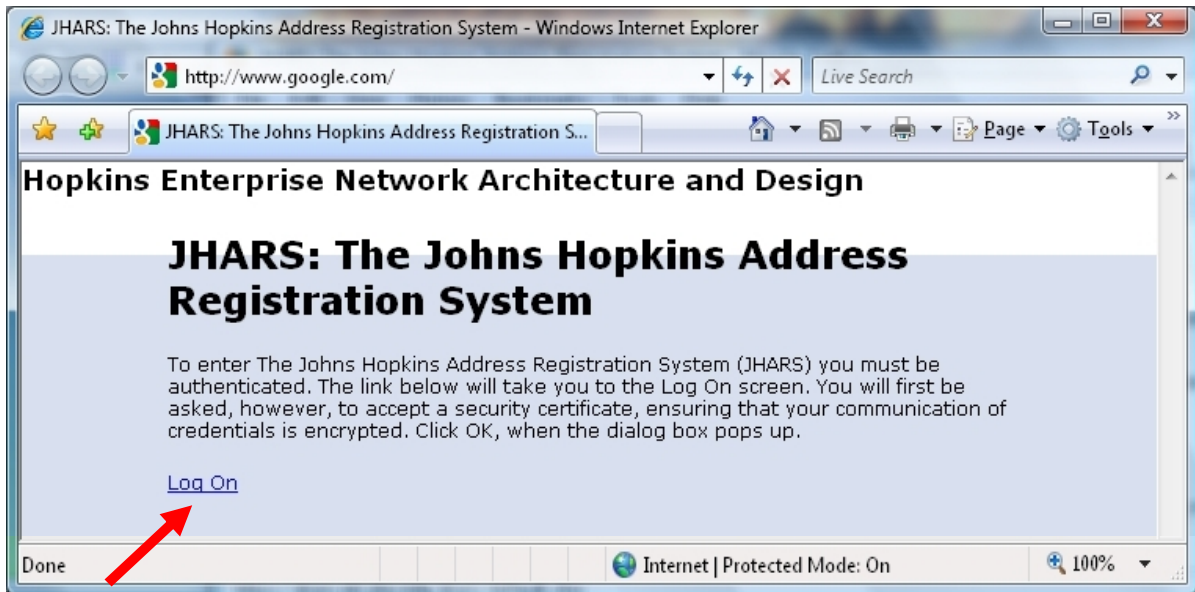


**You are now on the network!**

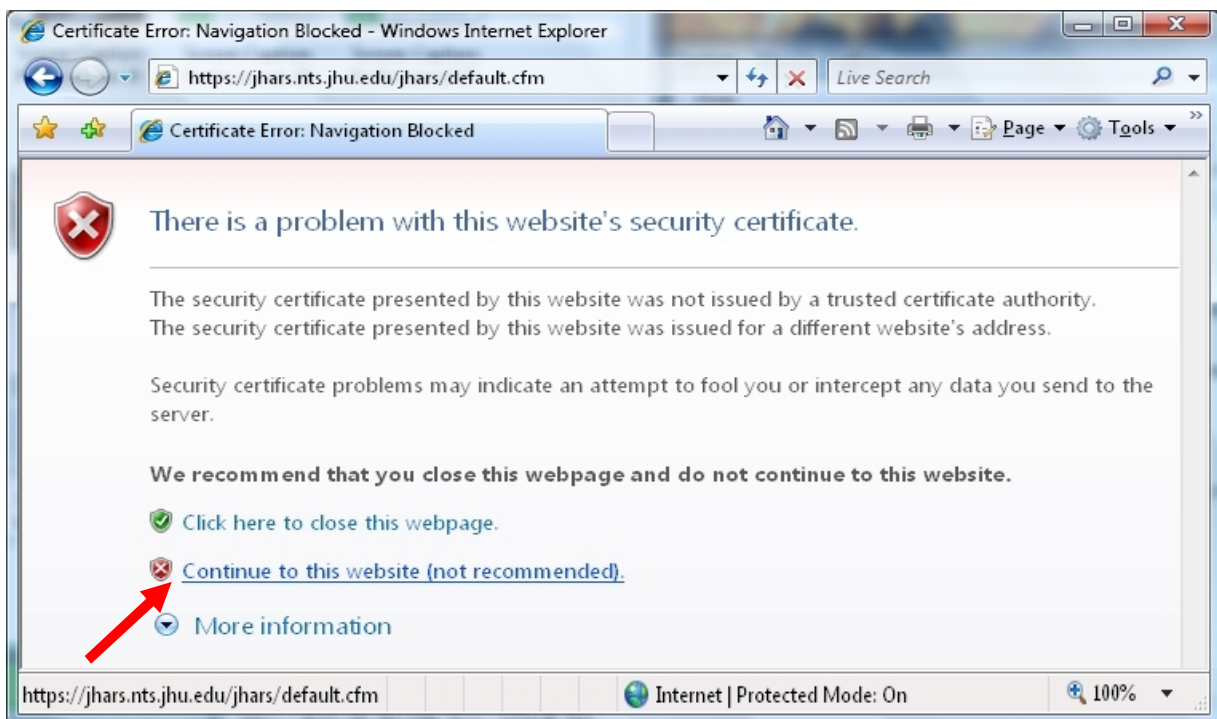
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### **JHARS Registration Required for First-Time Users:**

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



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

The screenshot shows a Windows Internet Explorer browser window titled "Johns Hopkins Enterprise Authentication - v5.1.1-21v". The address bar displays "https://portal.johnshopkins.edu" with a "Certificate Error" warning. A yellow security message states: "To help protect your security, Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options...". The page header features the "JOHNS HOPKINS" logo and "ENTERPRISE AUTHENTICATION". The main content area is divided into two sections. The left section, titled "LOGIN", prompts the user to "Please enter your JHED ID and Password" and includes a link for "First Time JHED Users Click Here". It contains input fields for "JHED ID:" (with "JHED\_ID" entered) and "Password:" (masked with dots), a "Forgot Password?" link, and a "Login" button. A red arrow points to the "Login" button. The right section, titled "ENTERPRISE LOGIN INFO | FORGOT PASSWORD?", contains a welcome message, a description of the login purpose, a detailed explanation of Single Sign-On (SSO), and a link to "Frequently Asked Questions". The status bar at the bottom indicates "Internet | Protected Mode: On" and "100%" zoom.

Johns Hopkins Enterprise Authentication - v5.1.1-21v - Windows Internet Explorer

https://portal.johnshopkins.edu Certificate Error Live Search

Johns Hopkins Enterprise Authentication - v5.1.1-...

To help protect your security, Internet Explorer has blocked this website from displaying content with security certificate errors. Click here for options...

JOHNS HOPKINS ENTERPRISE AUTHENTICATION

**LOGIN**

Please enter your JHED ID and Password

[First Time JHED Users Click Here](#)

JHED ID: JHED\_ID

Password: [masked] [Forgot Password?](#)

**Login**

**ENTERPRISE LOGIN INFO | FORGOT PASSWORD?**

Welcome to the **Johns Hopkins Enterprise Login**.

The purpose of Johns Hopkins Enterprise login is to provide a single sign on functionality for our customers to access many applications with just one log in.

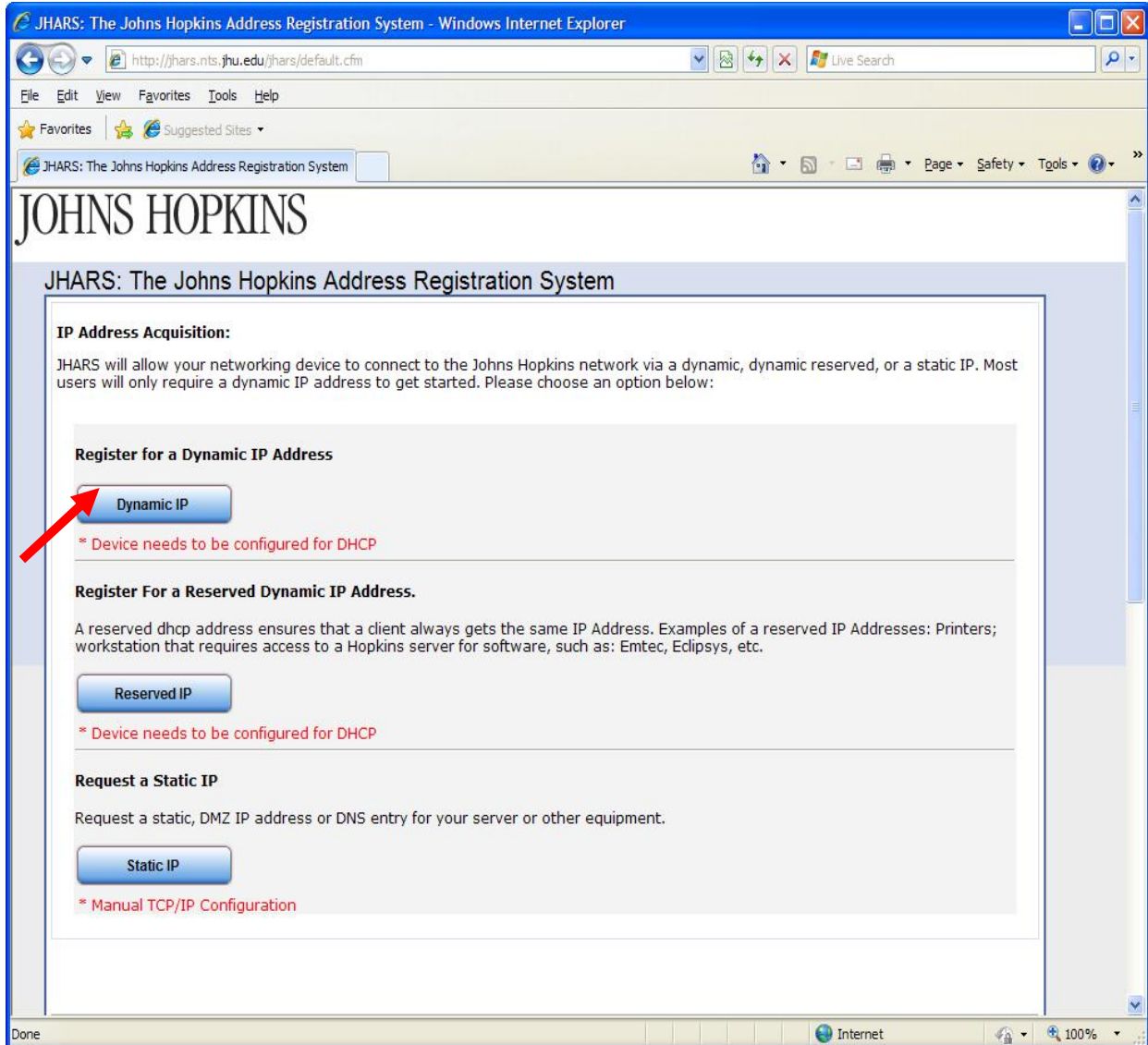
Single sign-on (SSO) is a mechanism whereby a single action of user authentication and authorization can permit a user to access all computers and systems where he has access permission, without the need to enter multiple passwords. Single sign-on reduces human error, a major component of systems failure and is therefore highly desirable but difficult to implement.

We also have a [Frequently Asked Questions](#) section available for more information and help.

Internet | Protected Mode: On 100%

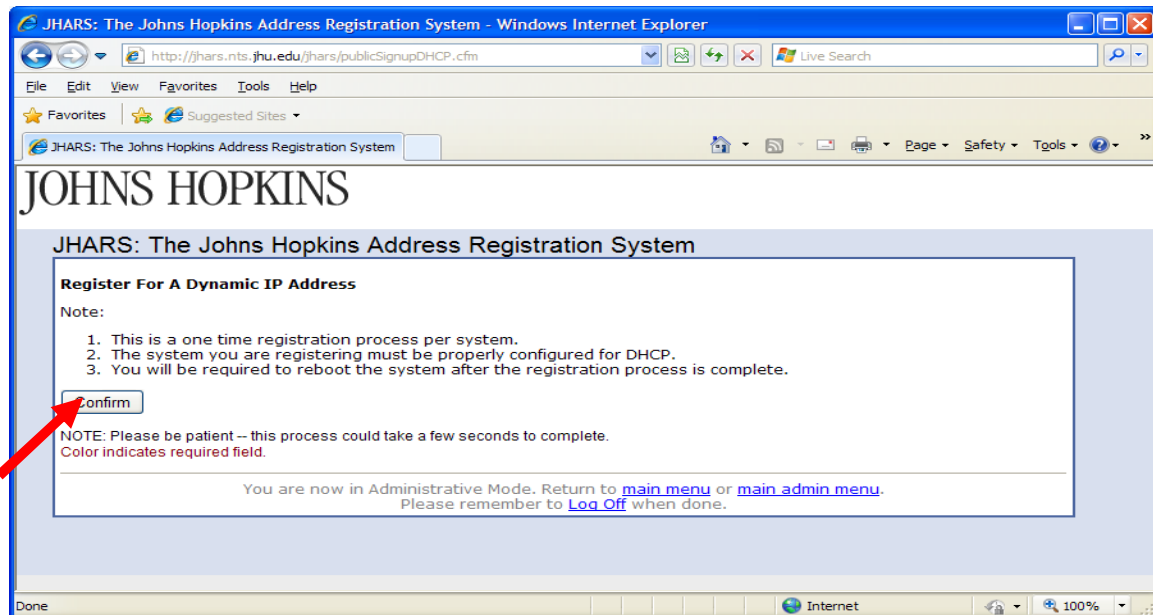
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**Step 21:** Click on **DYNAMIC IP** to register.

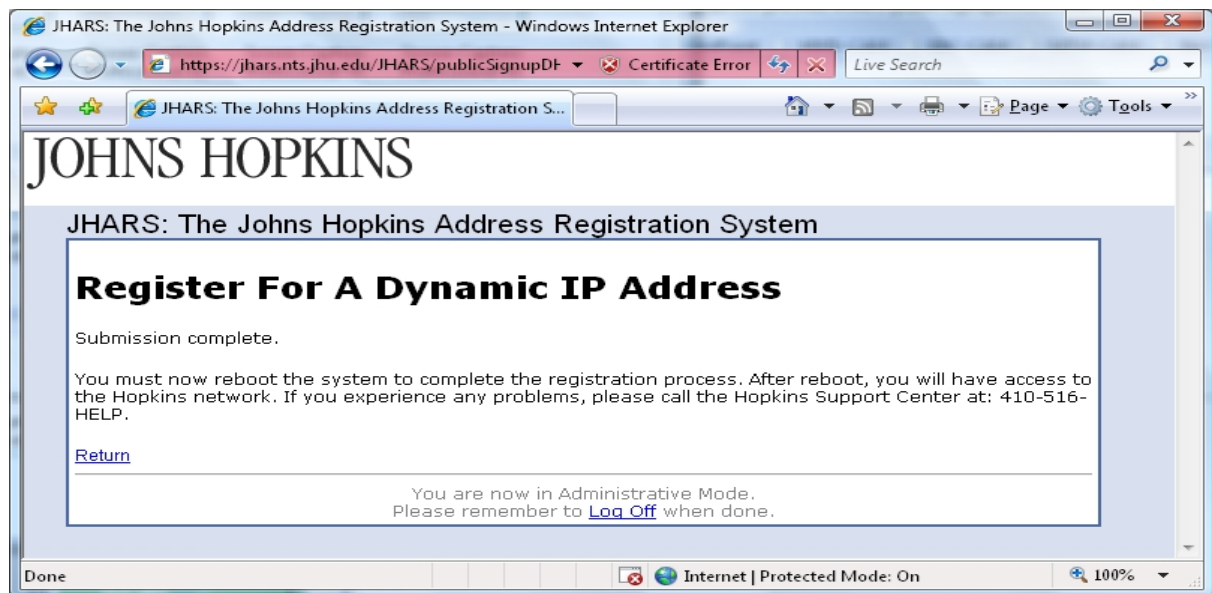


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**Step 22:** Click **Confirm** to conclude and submit the request.



**Step 23:** Please **Reboot** to conclude the registration process.



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### Where do I get additional help?

#### **Technical Assistance (walk-up)**

Garland Hall Basement

Monday - Friday 8:00 AM - 4:30PM

#### **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