ResNet help

ResNet (Residences Network) is the cable network in student rooms providing access to the internet and campus network.

All University student rooms have computer network points, which allow you to connect your own device to ResNet.

ResNet uses PASS (Permissive Access Security System) which enables devices such as laptops, games consoles, or tablet computers, to connect to the University network. All devices on campus, must register though PASS to be able to connect to the University network.

Information and instructions for connecting to ResNet

1. Plug the network cable into the network socket on your computer.
2. Plug the other end into the network point on the wall near your desk.
3. Switch on your computer.
4. Start your web browser.
5. Follow the instructions on the homepage to continue the ResNet (PASS) validation process.

If these instructions do not work, use one of the following solutions:

Configure ResNet using Windows

Windows 10

1. Click on the Windows logo in the bottom left of the screen, to open the start menu.
2. From the start menu. Click on Control Panel.
3. Click on **Network and Internet**, then **Network and Sharing Center**.

4. From the options on the left hand side, click on **Change Adapter settings**.

5. From the list of devices, right click (or press and hold on a touch screen) on the Ethernet Adapter, and click **Properties**.

6. Double click on **Internet Protocol Version 4 (TCP/IPv4)**.

7. Ensure that both the **Obtain an IP address automatically** and **Obtain DNS server address automatically** are selected.
8. Select OK and then OK again and close any remaining windows.

9. Open your web browser e.g. Edge, Firefox or Google Chrome.

10. The ResNet (PASS) page should automatically load. If not, browse to https://pass.lancs.ac.uk.

11. Follow the instructions on the website to continue the ResNet (PASS) validation process.

If you continue to have problems, please visit the ISS Service Desk in the Learning Zone with your device. Contact details can be found at http://www.lancaster.ac.uk/iss/help-and-support/.

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Windows 8

1. Navigate to the Desktop - to do this, on the Start screen click on the Desktop Tile, or press the Windows key & D.

2. Move your cursor to the top right or bottom right corner of the screen – the Charms menu appears down the right hand side.

3. Select Settings.

4. Select Control Panel.
5. Select **Network and Internet**, then **Network and Sharing Centre**.

6. In the left hand bar, select **Change Adapter Settings**.

7. Select **Ethernet**, then right click (mouse) or press and hold (touch screen) **Properties**.

8. Double-click (mouse) or double tap (touch screen) on **Internet Protocol Version 4 (TCP/IPv4)**.

9. Ensure that both the **Obtain an IP address automatically** and **Obtain DNS server address automatically** are selected.

10. Select **OK**, then **OK** again and close any remaining windows.
11. Open your web browser, e.g. Internet Explorer or Firefox.
12. You should see the ResNet (PASS) page. If not, browse to https://pass.lancs.ac.uk.
13. Follow the instructions you find there to continue the ResNet (PASS) validation process.

Configure ResNet using a Mac

1. Click on the Apple menu.
2. Select the System Preferences option.
3. From Internet and Wireless, click the Network icon.
4. Ensure that the Location list is set to Automatic.
5. Ensure that Ethernet is highlighted on the sidebar.
6. Ensure that Configure is set to Using DHCP.
7. Click Apply.
8. Start your web browser - e.g. Safari - the ResNet (PASS) page displays.
9. Follow the instructions on the page to continue the ResNet (PASS) validation process.

If you continue to have problems, please report a problem.
1. Connect the device to ResNet (PASS) via the wired cable and use the inbuilt browser to load any internet site.

2. The ResNet (PASS) page should automatically load. If not, browse to https://pass.lancs.ac.uk/ and follow the instructions on the ResNet (PASS) website to complete the validation process.

   If it doesn’t, or on the device you use this isn’t possible, you can also try to validate the device from another machine.

**To validate from another machine:**

1. Go to pass.lancs.ac.uk

2. Click *Continue to validate by MAC address* or *Validate an additional device (e.g. games console)*

3. You can then follow through the process to validate another device on ResNet (PASS). Once complete you simply need to plug the device and use it on ResNet (PASS).

If this doesn’t work, bring the device along to the ISS service desk in the learning zone, ideally with any respective cable, or screens it needs to connect, and we'll take a further look at with you. Porters can provide trolleys to wheel heavy devices if need be.

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**Frequently asked questions**

**Can I register multiple devices to ResNet?**

You can register unlimited devices to ResNet (PASS), but can only connect one device at a time via the network point in your room.

The connection of wireless access points, hubs, switches and routers is not permitted.

**Where can I get a replacement ResNet network cable?**

You can get a replacement network cable by visiting the Learning Zone Support Desk.

**How can I change the NAT type of my Xbox from Strict when connected to ResNet?**

Unfortunately, *NAT Type Strict* isn’t a setting on our end, rather a limitation of the hardware running ResNet (PASS).

Home routers often use a service called uPnP to allow your console/game to forward ports from the router’s external address to your internal address. This service doesn’t scale to a network the size of ResNet (PASS), and whilst it may allow a few consoles to see NAT Type Open everyone else would still see NAT Type Strict. (You’ll find this is the case if you’re using more than one console on a home connection at the same time).

On commercial grade equipment such as ours, a network administrator would have to change settings every time a console is turned on which is not workable. Even if they did, only a handful of people would see ‘NAT Type Open’ in a housing block.

**Can I connect my games console to ResNet?**

Yes you can - but note that you can only connect one device at a time via ResNet.

To connect your console you will need to know the MAC address of your console, and then validate it with PASS from another machine.

1. From your other device, browse to pass.lancs.ac.uk

2. Click *Continue to validate by MAC address* or *Validate an additional device (e.g. games console)*
3. You can then follow through the process to validate your console. You will need to know the MAC address of your console. For help on this, see Find the MAC address for a device.

4. Once complete you simply need to plug in your console using the wired ethernet cable.