

NISER Bhubaneswar has become a part of *Eduroam*, a global Wifi roaming programme across academic campuses, through ERNET, India.

eduroam is the secure, world-wide roaming access service developed for the international research and education community.

eduroam (education roaming) allows students, faculty, researchers, and staff from participating institutions to obtain Internet connectivity across campus and when visiting other participating institutions across India and internationally across the globe. When you can see and connect to the **eduroam** network, you will be able to access it using your WiFi access credentials from NISER.

Most of the configuration will be one time only. Thus, enabling easy access to the internet from other universities.

Institutions in India supporting *eduroam* can be found <u>here</u>

More information about *eduroam* can be found at <u>www.eduroam.org</u>

Field	Values
Network Name(SSID)	eduroam
Security Type	WPA2 Enterprise
Username	yourUserID[at]niser.ac.in
Password**	NISER campus WiFi access password**
EAP method	TTLS (Tunnelled TLS)
Phase 2 authentication	РАР

Here is a quick setup guide:

**Password is the Password to access WiFi at NISER (which may be different from that used for email and office automation web portal).

This WiFi access password at NISER Campus is same for accessing desktops at CC Lab, Library Portal, Internal SSH Server for homepage, etc.

Android:

- 1. Click on the **eduroam** SSID which will popup Wifi Authentication window.
- 2. Change EAP method to TTLS
- 3. Change Phase 2 Authentication to PAP
- 4. CA Certificate Do not Validate
 - Identity (your NISER email id eg. user@niser.ac.in)
 - Password (your NISER WiFi access password)
- 5. Click on **connect**.

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< eduroam	
EAP method	
Identity ccadmin@niser.ac.in	$\overline{\mathbf{v}}$
Password	22
\sim	Ø
CA certificate Don't validate	\triangleleft
No certificate specified. Your connec	tion won't be private.
Auto reconnect	
Phase 2 authentication	
Anonymous identity	
IP settings DHCP	
Proxy None	
Metered network	<

Linux:

1. Click on the **eduroam** SSID which will popup Wifi Authentication window.



- 2. Now Check "No CA certificate is required".
- 3. Change Inner Authentication to PAP
- 4. Enter your NISER Email ID & NISER Campus WiFi access password. Click on connect

80 1	Vi-Fi Network Authentication	n Required	
()	Authentication require	ed by Wi-Fi network	
•	Passwords or encryption key network 'eduroam'.	s are required to access the	Wi-Fi
	Wi-Fi security:	WPA & WPA2 Enterpr	ise
	Authentication:	Tunneled TLS	
	Anonymous identity:		
	CA certificate:	(None)	C
		🛛 No CA certificate is	requir
	Inner authentication:	PAP	
	Username:	📂 🔀 ccadmin@niser.ac.	in
	Password:	>	4
		Show password	
		Cancel	onnec
		Click	to con

Windows:

1. Go to the Windows Network and Sharing center by going to Start Menu > Settings > Network and Internet. From there click *Network and Sharing Center*. A new window will pop up.

← Settings		- 0 X
බ Home	Status	
Find a setting	Network status	Have a question? Get help
Network & Internet	П <u>—</u> п <u>—</u> А	
🔁 Status	Ethermet Private network	Make Windows better Give us feedback
💭 Ethernet	You're connected to the Internet	
P Dial-up	If you have a limited data plan, you can make this network a metered connection or change other properties.	
. 480 AbN	Change connection properties	
nge Airplane mode	Show available networks	
010 Mobile hotspot	Change your network settings	
🕒 Data usage	Change adapter options View network adapters and change connection settings.	
Proxy	Sharing options For the networks you connect to, decide what you want to share.	
	Network troubleshooter Diagnose and fix network problems.	
	View your network properties	
	Windows Firewall	
	Network and Sharing Center	
	Network reset	

2. *For Windows 11 users*: at the Start Menu, type *Network and Internet* and click the Control Panel App. It will open All Control Panel Items. Click *Network and Sharing Center*.

All Apps Documents Settings	More ~		
Best match			
Control Panel App			
Apps		Control Panel	
🐼 Settings	>	Арр	
Documents		🖸 Open	
Disruption in internet connectivity and network on 10am-5pm	>	Recent	~
		📇 Device Manager	
		鹶 Date and Time	

📴 All Control Panel Items				– 🗆 X
$\leftarrow \rightarrow \checkmark \uparrow$	> Control Panel > All Control Panel Items		~ C	م
Adjust your compute	r's settings		View by:	Small icons 🔻
📑 AutoPlay	🐌 Backup and Restore (Windows 7)	🏘 BitLocker Drive Encryption	💶 Color Management	
Credential Manager	🐣 Date and Time	📑 Default Programs	📇 Device Manager	
Revices and Printers	🕓 Ease of Access Center	🔛 File Explorer Options	File History	
A Fonts	🖳 Indexing Options	🔂 Internet Options	Keyboard	
Mouse	Network and Sharing Center	🛄 Phone and Modem	Power Options	
📧 Programs and Features	S. Recovery	🔗 Region	🐻 RemoteApp and Desktop Connections	5
陀 Security and Maintenan	ce 🖬 Sound	Speech Recognition	Storage Spaces	
🔕 Sync Center	🕎 System	🧾 Taskbar and Navigation	Troubleshooting	
& User Accounts	🙀 Windows Defender Firewall	🖶 Windows Tools	📱 Work Folders	

3. Click Set up a new Connection or Network. Another window will pop up.

Control Panel Home View your basic network information and set up connections Change adapter settings Change advanced sharing settings Change your networking settings Change your network problems Diagnose and repair network problems, Choose a connection option Connect to the Internet Set up a new network Set up a new network or create a new wireless profile. Connect to a wireless network Change your access point. Change your workplace Change your access point. Change your your workplace. Change your access point. Change your access point. Change your workplace. Change your workplace. Change your your workplace. Change your access point. Change your your workplace. Change		
Change advanced sharing Settings Change advanced sharing Settings Change your networking settings Change your networking settings Set up a new connection or network Set up a broadband, dial-up, or VPN con Troubleshoot problems Diagnose and repair network problems, Choose a connection option Connect to the Internet Set up a new network Connect to the Internet Set up a new network Set		
Change advanced sharing settings Change your networking settings Troubleshoot problems Diagnose and repair network problems, Diagnose and repair network problems, Choose a connection or Network Set up a new network Se		
 Set up a new connection or network Set up a broadband, dial-up, or VPN con Troubleshoot problems Diagnose and repair network problems, Choose a connection option Choose a connection option Set up a new network Set up a new network Set up a new network or create a new wireless profile. Manually connect to a wireless network Connect to a wireless network Set up a dial-up or VPN connection to your workplace. 		
Troubleshoot problems Choose a connection option Diagnose and repair network problems, Choose a connection option Image: Connect to the Internet set up a broadband or dial- up connection to the Internet. Image: Connect to a law or connection to the Internet. Image: Connect to a wireless profile. Image: Connect to a wireless network or create a new wireless profile. Image: Connect to a wireless network or create a new wireless profile. Image: Connect to a wireless network or create a new wireless profile.		×
Connect to the Internet Set up a broadband or dial-up connection to the Internet. Set up a new network Set up a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace.		
Set up a new network Set up a new router or access point. Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace.		 ٦
Manually connect to a wireless network Connect to a hidden network or create a new wireless profile. Connect to a workplace Set up a dial-up or VPN connection to your workplace.		
Connect to a workplace Set up a dial-up or VPN connection to your workplace.	\geq	
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4. Choose *Manually connect to a wireless network* among the connection options. Click *Next*.

5. For the network name, type *eduroam* (this may vary among institutions). Choose WPA2-Enterprise on the Security Type drop-down menu. Click *Next*.

			_		×
← 🔮 Manually connect to	a wireless network				
Enter information	for the wireless network you want to a	dd			
Network name:	eduroam <				
Security type:	WPA2-Enterprise				
Encryption type:	AES \sim				
Security Key:	Hide	e characte	rs		
Start this connect Connect even if t Warning: If you s	ion automatically he network is not broadcasting elect this option, your computer's privacy might b	oe at risk.			
		1	Next	Can	icel

6. The next window will show that you have successfully added eduroam. Click *Change connection settings*.

→ · · · 个 😨 → Control I	anel > Network and Inter	mat + Natural and Charing Conter	– Carch Control Panel
ontrol Panel Home	View your ba \leftarrow	Manually connect to a wireless network	
hange adapter settings	View your active		adaman Merilan Matanak Darakin
hange advanced sharing ettings	Change your net Set up Set up Troubl Diagnc	→ Change connection settings Open the connection properties so that I can change the setting	Connection Security Name: eduroam SSID: eduroam Network type: Access point Network availability: All users Connect automatically when this network is in range Connect automatically when this network is in range Connect even if the network is not broadcasting its name (SSID)
e also frared			

7. At the Security tab, choose *Microsoft: EAP-TTLS* on the network authentication method. Click *Settings*.

eduroam Wireless Netw	ork Properties	×
Connection Security	Ŷ	
Security type:	WPA2-Enterprise ~	
Encryption type:	AES 🗸	
Choose a network aut	hentication method:	
Microsoft: EAP-TTLS	 ✓ Settings 	
Remember my cred time I'm logged on	entials for this connection each	
Advanced settings		
	OK Cance	I

8. At the TTLS Properties window, **uncheck** *Enable identity privacy* and select *Unencrypted Password (PAP)* on the client authentication – Select a non-EAP method for authentication radio button. Click OK to confirm settings.

TTLS Properties	×
anonymous	
Server certificate validation	
Connect to these servers:	
Trusted Root Certification Authorities:	
Add Trust External CA Root	
Baltimore CyberTrust Root	
Certum CA	
Class 2 Public Primary Cartification Authority	
< >>	
Don't prompt user if unable to authorize server	
Client authentication	
Select a non-EAP method for authentication	
Unencrypted password (PAP)	
Automatically use my Windows account name and password (and domain, if any)	
◯ Select an EAP method for authentication	
Microsoft: Smart Card or other certificate $\qquad \qquad \lor$	
Configure	
OK Cancel	

9. Back at the security tab, click Advanced Settings. At the 802.1X settings tab check *Specify Authentication mode* and choose *User Authentication* at the drop-down menu. You may choose to add your credentials on the *Save Credentials* button if you like.

Advanced settings	×
802.1X settings 802.11 settings	
Specify authentication mode:	
User authentication \qquad Save credentials	
Delete dedentials for all users	
Enable single sign on for this network	
Perform immediately before user logon	
O Perform immediately after user logon	
Maximum delay (seconds): 10	
Allow additional dialogs to be displayed during single sign on	
This network uses separate virtual LANs for machine and user authentication	
OK Cance	1

10. Click OK and select *eduroam* among the available networks to connect to. If you did not enter your credentials on the Save Credentials option the step before, an authentication dialog will pop-up. Enter your NISER email id as username here together with your NISER WiFi access password.

	eduroam Secured Checking network requirements Cancel			
Windows Sec	urity	×		
Sign in				
ccadmin@niser.ac.in				
÷***				
	OK Cancel			
v supermon v Network & Internet settings Change settings, such as making a connection metered.				
	「 「 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 「 」 」 」 「 」 」 」 「 」 」 「 」 」 」 「 」 」 」 「 」 」 」 「 」 」 」 「 」 」 」 「 」 」 「 」 」 」 」 」 」 「 」 」 」 」 」 「 」 」 」 」 」 「 』 」 」 」 「 』 」 」 」 」 」 」 「 」 」 」 」 」 」 」 』 「 』 」 「 」 」 「 」 」 」 」 「 」 」 』 『 』			
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11. The system will prompt you if you want to keep connecting. Click Connect once more and enjoy Eduroam!

<u>Mac:</u>

1. Download the config file <u>here</u>. Unzip the file "**eduroam.mobileconfig**" and click/double click on it to execute.



Eduroam

- 2. Go to *System Settings* -> *Profiles* from start menu or search the menu for **Profiles**. Then click on **eduroam**.
- 3. Accept/continue with all prompts and click on **install** at the last screen (**NO** credentials are entered here).

Install "Eduroam"? This profile will configure your Mac with the following: Wi-Fi Network.			
Show Profile	Cancel Continue		
Are you sure you want to install profile "Eduroam"? The author of this profile is unknown. Make sure you trust the sender before installing.			
Show Details	Cancel Continue		

4. After installation, close the window and connect to your "eduroam" wifi.



5. Enter the details when prompted:

Username: your NISER e-mail id (eg: user@niser.ac.in)

Password: your NISER WiFi access password

Enter a name and password for network "eduroam"					
Account Name:	ccadmin@niser.ac.in				
Password	•••••				
Remember this information					
	Cancel OK				

- 6. Click on Connect/Accept/Continue if prompted.
- 7. Now you should be connected via eduroam from domain of NISER from any eduroam enable network across the globe.

ile	Edit	View Window Help	
		Wi-Fi	
		🛜 Wi-Fi	
		eduroam Connected	Details
		Known Networks	
		✓ eduroam	
		NISER-AP	중
		NISER-MAC	२ ⋯

iPad or iPhone:

- 1. Download the config file <u>here</u>. Unzip the file and click on the "eduroam.mobileconfig".
- 2. Click on Allow & Install for the following prompts.
- 3. Enter your NISER Email ID & NISER WiFi access password.

