

## **Features**

Since Cisco Packet Tracer integrates well with the Networking Academy, it covers the entire syllabus to help you understand the intricacies of networking simulation and visualization techniques. Thus, it lets teachers demonstrate complicated IT concepts without much hassle.

Moreover, this program can be used to teach a range of aspects associated with networking system design. With this tool, instructors can customize individual and multi-user activities, thereby ensuring a comprehensive experience for students. Overall, Packet Tracer allows students to focus on better value and relevance in the syllabus.

Students and beginners can use Packet Tracer to troubleshoot, build and configure networks with virtual equipment and simulated connections. Since the software can be used as a standalone program or in collaboration with other tools, it ensures a better learning experience.

While using Packet Tracer, students are able to leverage an effective, learning-based, and interactive environment to explore a range of networking concepts and protocols. Since detailed tutorial guides are available online, queries and doubts can also be resolved within minutes.

## **System Requirement**

To successfully install and run Packet Tracer 7.1, the following minimum prerequisites must be met:

Minimum CPU: Intel Pentium 4, 2.53 GHz or equivalent OS: Microsoft Windows 7, Microsoft Windows 8.1, Microsoft Windows 10 or Ubuntu 14.04 LTS RAM: 2 GB  
Storage: 500 MB of free disk space Display resolution: 1024 x 768 Language fonts supporting Unicode encoding (if viewing in languages other than English) Latest video card drivers and operating system updates

Recommended CPU: Intel Pentium 4, 3.0 GHz or better RAM: 4 GB Storage: 700 MB of free disk space Display resolution: 1920 x 1080 Sound card and speakers Internet connectivity (if using the Multiuser feature or tutorials) Packet Tracer 7.1

models the following protocols:

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Layer	Cisco Packet Tracer Supported Protocols
Application	FTP , SMTP, POP3, HTTP, TFTP, Telnet, SSH, DNS, DHCP, NTP, SNMP, AAA, ISR VOIP, MQTT, SCCP config and calls ISR command support, Call Manager Express, IoT
Transport	TCP and UDP, TCP Nagle Algorithm & IP Fragmentation, RTP
Network	BGP, IPv4, ICMP, ARP, IPv6, ICMPv6, IPsec, RIPv1/v2/ng, Multi-Area OSPF, OSPFv3, EIGRP, EIGRPv6, Static Routing, Route Redistribution, Multilayer Switching, L3 QoS, NAT, CBAL , Zone-based policy firewall and Intrusion Protection System on the ISR, GRE VPN, IPsec VPN, HSRP, CEF, SPAN/RSPAN, L2NAT, PTP, REP, LLDP
Network Access/Interface	Ethernet (802.3), 802.11, HDLC, Frame Relay, PPP, PPPoE, STP, RSTP, VTP, DTP, CDP, 802.1q, PAgP, L2 QoS, SLARP, Simple WEP, WPA, EAP, VLANs, CSMA/CD, Etherchannel, DSL, 3/4 G network support

## Step Guide to Installing and Launching Cisco Packet Tracer

### Step 1: Downloading Cisco Packet Tracer

1. Navigate to the Cisco Networking Academy. Access the Cisco Networking Academy website ([netacad.com](https://netacad.com)) using your preferred web browser.
2. Create or log in to your Cisco Networking Academy account.

Log in

Email

xxxxxxxxx@gmail.com

Next

[Unlock account?](#)

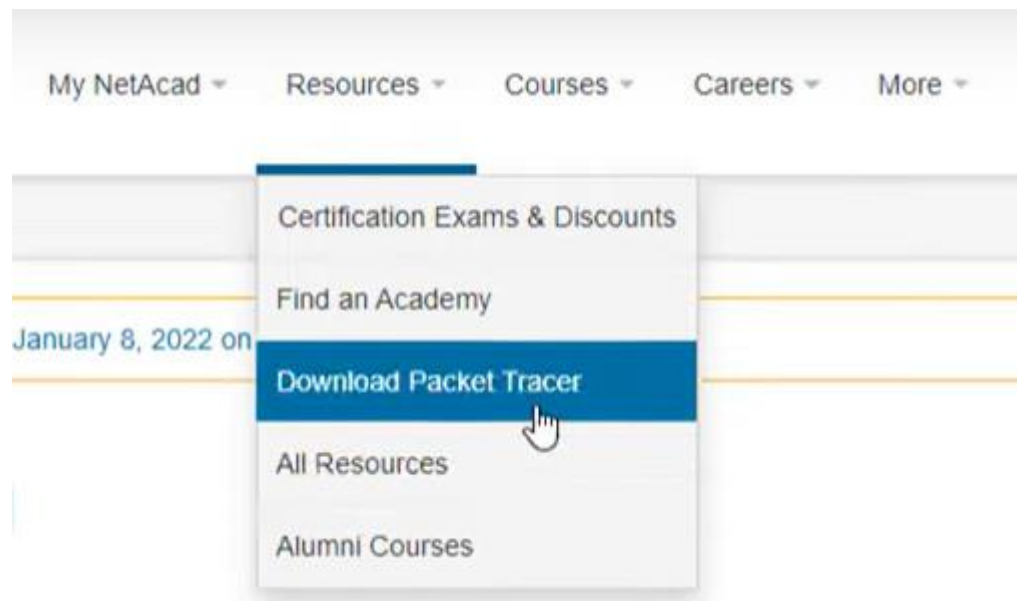
[Forgot email address?](#)

[Help](#)

If you don't have an account, sign up. If you already have one, log in to your account.

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3. Access Packet Tracer Resources: Once logged in, go to the resources section or search for Packet Tracer on the platform.



4. Download Packet Tracer: Locate the Packet Tracer download link and choose the appropriate version for your operating system (Windows, macOS, or Linux). Click to start the download.

**Windows Desktop Version 8.1.0 English**  
[64 Bit Download](#) [32 Bit Download](#)

**Ubuntu Desktop Version 8.1.0 English**  
[64 Bit Download](#)

**macOS Version 8.1.0 English**  
[64 bit Download](#)

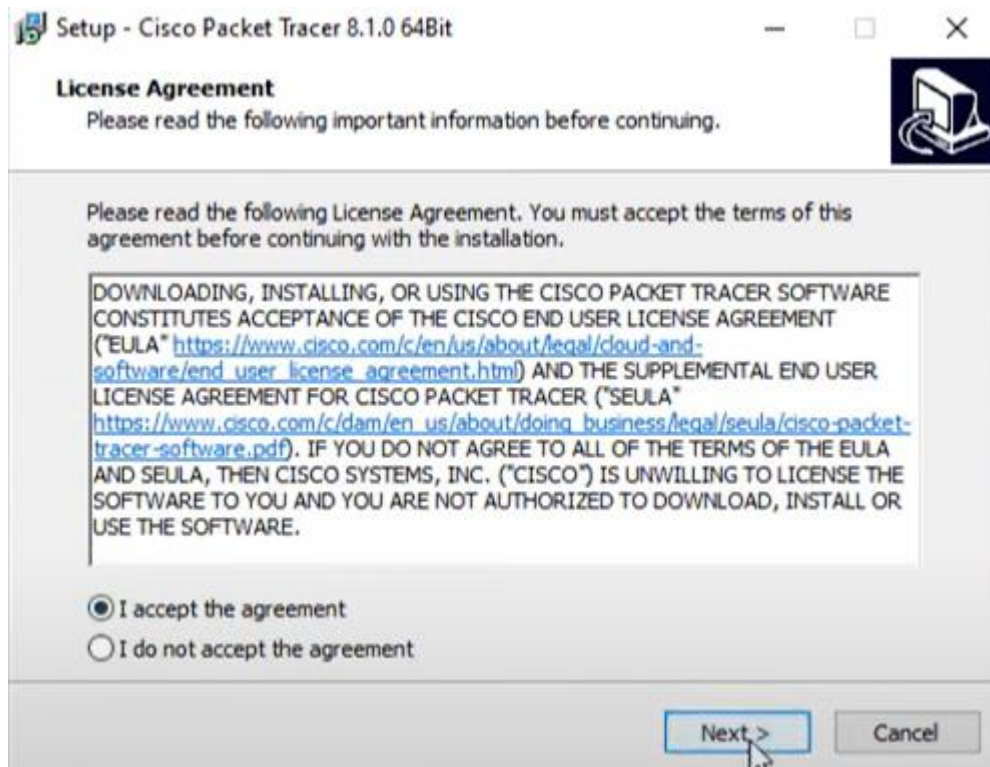
### *Step 2: Installing Cisco Packet Tracer*

1. Locate the Downloaded File: Once the download completes, find the Packet Tracer setup file in your downloads folder or the location where your browser saves downloads.

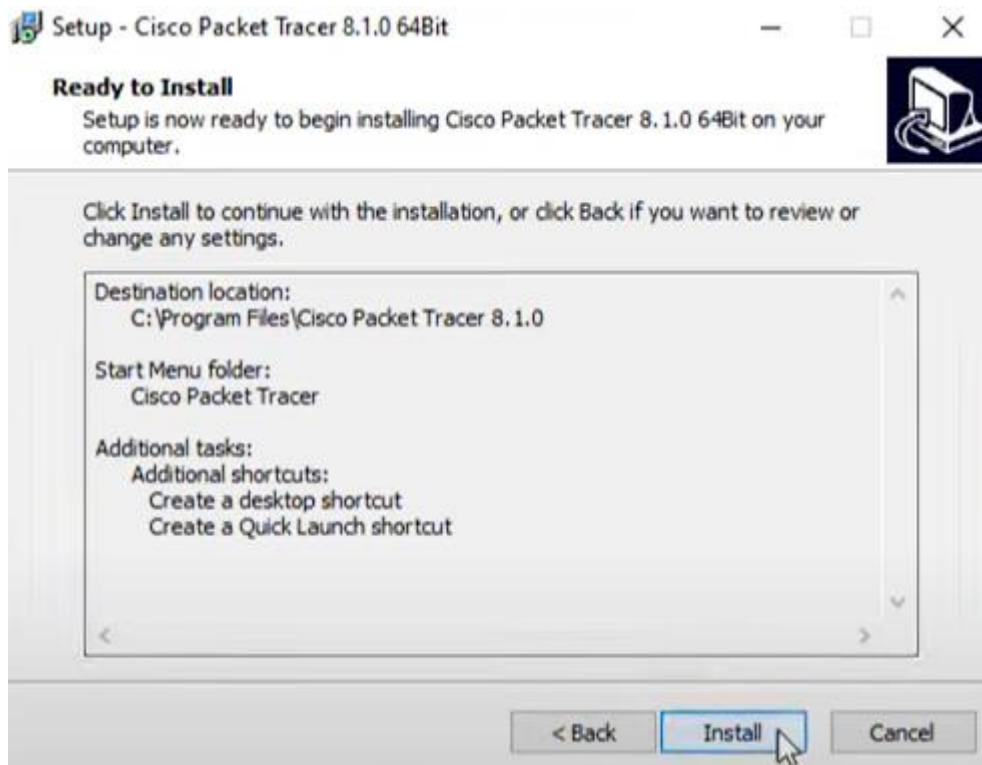


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2. Run the installer. Double-click the setup file to launch the installation wizard.



3. Follow Installation Instructions: The installation wizard will guide you through the process. Review and accept the license agreement, choose the installation location (or use the default), and follow any additional prompts.



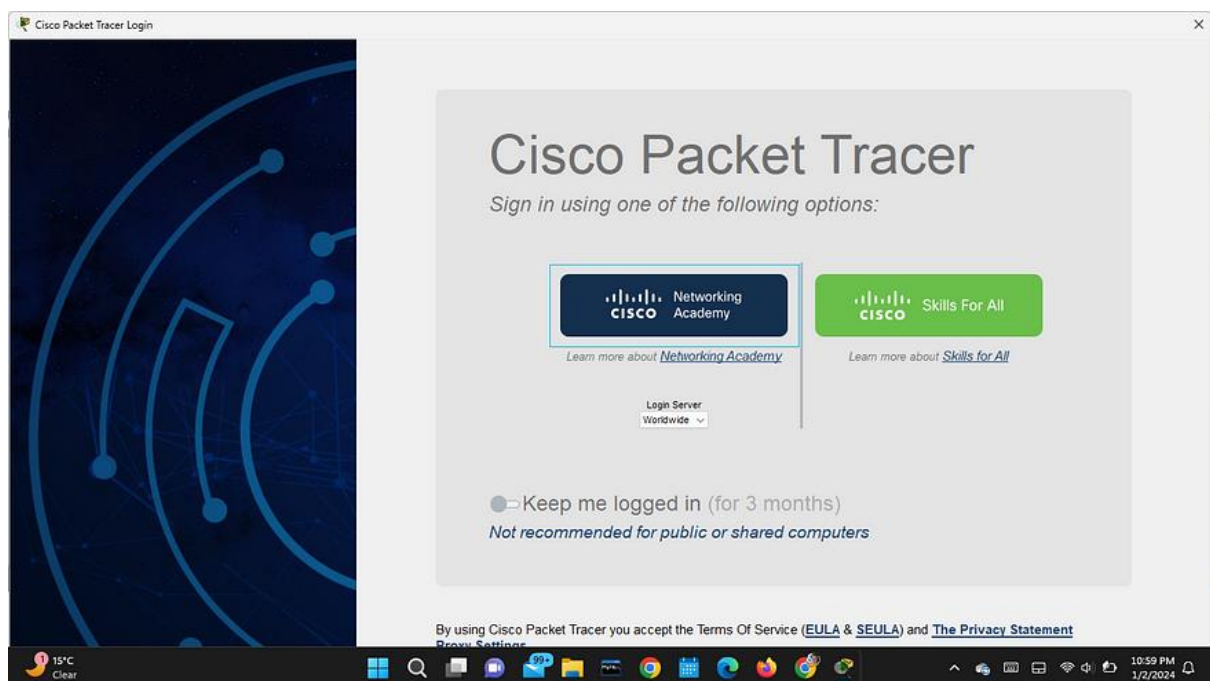
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4. Complete Installation: Once the installation is completed, you should see a confirmation message indicating that Packet Tracer is installed on your system.



### Step 3: Logging in to Cisco Packet Tracer

1. Launch Packet Tracer: Find the Packet Tracer icon on your desktop or in your applications folder and double-click to open the program.



2. Login Screen: Upon launching, you will be prompted to log in.

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## Log in

Email

xxxxxxxxx@gmail.com

Next

[Unlock account?](#)

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[Help](#)

3. Enter your Cisco Networking Academy credentials: Use your Cisco Networking Academy username and password to log in. If you don't have an account, there might be an option to sign up directly through Packet Tracer.

[< Back](#)



## Log in

Email

Password

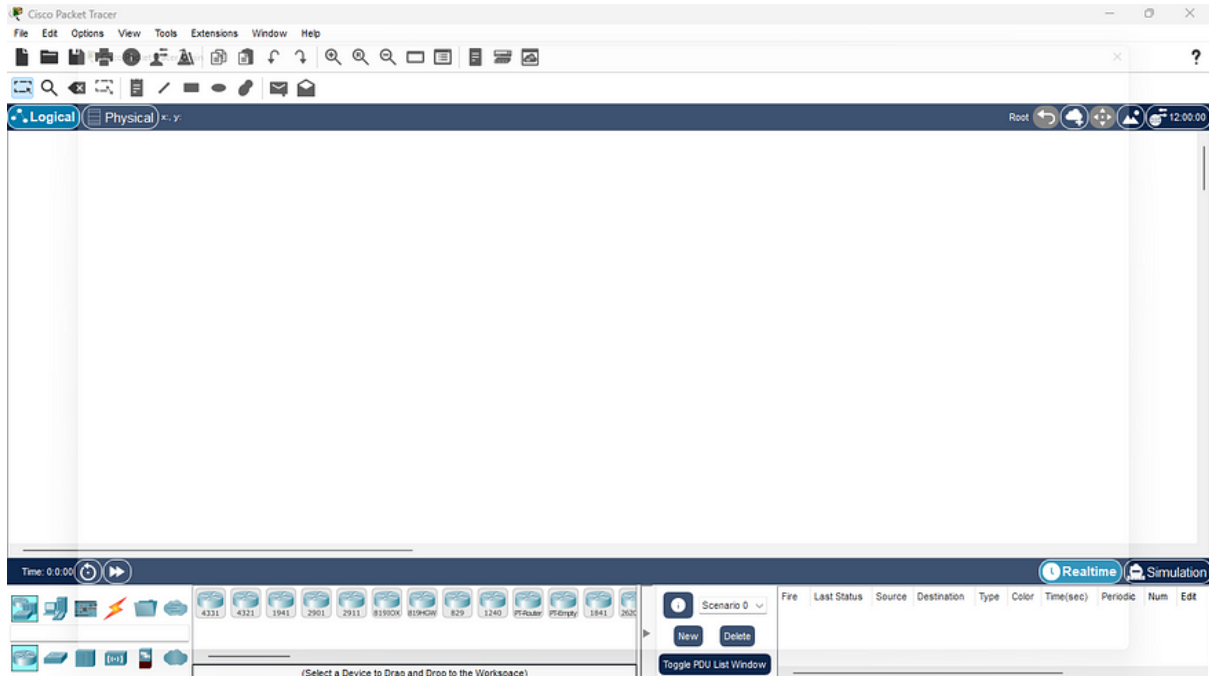
xxxxxxxxxxxx

log in

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4. Authenticate/Login: After entering your credentials, click on the login or authenticate button to proceed.

5. Accessing the Packet Tracer Dashboard:



Once logged in successfully, you should be directed to the Packet Tracer dashboard, where you can start creating and simulating networks.