

Q.1) How do you check whether my WAN IP has been whitelisted?

To verify whether the submitted WAN IP has been whitelisted, follow the steps below:

- Open your system browser and enter the IP address **14.139.1.126** in the URL bar, or click on the following link: <http://14.139.1.126/>.
- If the IP has been successfully whitelisted, a confirmation message will appear stating:  
**"Congratulations!!! Your IP has been whitelisted for accessing ChipIN EDA tool Academic license."**
- Please find the screenshot for reference.

**Congratulations !!!**

**Your IP: 14.139.1.29 has been whitelisted for accessing ChipIN EDA tool Academic license.**

- If the IP is not whitelisted, please create a ticket in the **ChipIN ticketing portal** by visiting the following link: <https://chipin.cdacb.in/>.
- A screenshot is attached for your reference.
  - Sign in to <https://chipin.cdacb.in/>
  - Open a new ticket under "Request EDA tool access" help topic
  - Provide your Institute Name and WAN IP details.
  - Create a ticket for whitelisting your Institute WAN IPs.

Q.2) How do you check internet connectivity using the ping command?

To verify internet connectivity, follow these steps:

- Open the command terminal on your system.
- Type the command **ping 14.139.1.126** and press Enter.
- If the connection is successful, you will receive reply messages from the IP address, indicating that the network is reachable.

```
PING 14.139.1.126 (14.139.1.126) 56(84) bytes of data.  
64 bytes from 14.139.1.126: icmp_seq=1 ttl=61 time=1.09 ms  
64 bytes from 14.139.1.126: icmp_seq=2 ttl=61 time=0.508 ms  
64 bytes from 14.139.1.126: icmp_seq=3 ttl=61 time=0.486 ms  
64 bytes from 14.139.1.126: icmp_seq=4 ttl=61 time=0.448 ms  
64 bytes from 14.139.1.126: icmp_seq=5 ttl=61 time=0.465 ms  
64 bytes from 14.139.1.126: icmp_seq=6 ttl=61 time=0.441 ms  
64 bytes from 14.139.1.126: icmp_seq=7 ttl=61 time=0.467 ms  
64 bytes from 14.139.1.126: icmp_seq=8 ttl=61 time=0.453 ms  
64 bytes from 14.139.1.126: icmp_seq=9 ttl=61 time=0.445 ms  
64 bytes from 14.139.1.126: icmp_seq=10 ttl=61 time=0.468 ms
```

- If the connection is not successful, you may see request timed out or destination unreachable messages, which indicates a network connectivity issue.

Q.3) What are the port numbers required for accessing Cadre tools?

To access Cadre tools, the following TCP port numbers must be opened in the firewall of participating institutions:

TCP Port: 20720 and 20721

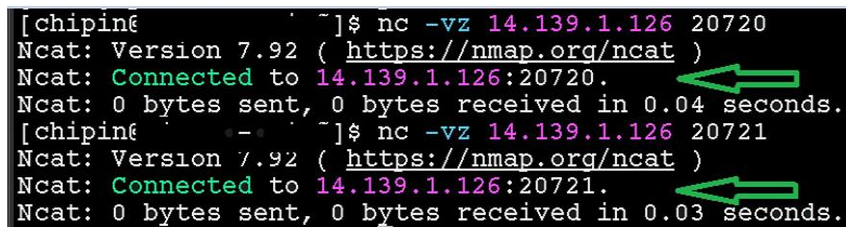
Q.4) How can you verify the connectivity of a specific port from your system?

To check the connectivity, follow these steps:

- Open the command terminal on your system.
- Use the following commands to verify connectivity to the licensing server and its respective ports:

```
nc -vz 14.139.1.126 20720
```

```
nc -vz 14.139.1.126 20721
```



```
[chipin@ ~]$ nc -vz 14.139.1.126 20720
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Connected to 14.139.1.126:20720.
Ncat: 0 bytes sent, 0 bytes received in 0.04 seconds.
[chipin@ ~]$ nc -vz 14.139.1.126 20721
Ncat: Version 7.92 ( https://nmap.org/ncat )
Ncat: Connected to 14.139.1.126:20721.
Ncat: 0 bytes sent, 0 bytes received in 0.03 seconds.
```

- If the connection is successful, you will receive a message indicating that the port is connected to the licensing server.
- If the connection fails, you may see an error message such as connection timeout.
- In case of a connection timeout, please check with your network administrator and ensure that the required ports are open in the institution's firewall.

Q.5) Which operating systems are supported for Cadre tools?

Operating System:

- Rocky Linux 8 and above
- Alma Linux 8 and above
- RHEL 8 and above

Among the supported operating systems, RHEL 8 and above is considered more suitable due to its stability, functionality and better compatibility support.

Q.6) What are the tools available under Cadre TCAD Design?

❖ Integrated Design Environment

- CWB
- CVISUAL

❖ TCAD Device Simulation

- CDevice-2D
- CDevice-3D
- CDevice-WBG
- CDevice-Thermal

For more details, refer to the below link:

[https://c2s.gov.in/assets/Cadre\\_Product%20List\\_C2S\\_2026%20\(1\).pdf](https://c2s.gov.in/assets/Cadre_Product%20List_C2S_2026%20(1).pdf)

Q.7) Where can you find the Cadre tool binaries and the installation documentation?

- The CADRE tool binaries and installation documentation are available on the ChipIN Cloud ([chipin-cloud.cdacb.in](http://chipin-cloud.cdacb.in)).
- Access to the ChipIN Cloud portal requires valid CI or CO-CI login credentials to download the CADRE tool binaries and the corresponding installation documentation.

Q.8) What are the minimum system requirements to install Cadre tools?

- Operating System: 64-bit Linux (such as RHEL / ROCKY / ALMA).
- Processor: 64-bit x86 processor (Intel or AMD).
- RAM: Minimum 8 GB RAM (16 GB or higher recommended for better performance).
- Disk Space: At least 100 GB of free disk space for tool installation and project data.
- Display: Standard Linux graphical environment with X11 support.

Q.9) What are the commands used to invoke the Cadre tools?

Tool Name	Commands to Invoke
CWD	cwb
CVISUAL	cvisual
CDevice-2D	cdevice2d
CDevice-3D	cdevice3d
CDevice-WBG	cdevice_wbg
CDevice-Thermal	cdevice_thermal