radious authentication:RADIUS stands for Remote Authentication Dial-In User Service.

It’s a network protocol that helps verify who is allowed to connect to a network.

Think of it like a security guard who checks your ID before letting you into a building.

when we try to connect a wifi when inter username and password on wifi name the router sent a request to radious server..the server check client details with his database if it match then he sent reply granted and router connect the device.....

radious accounting:

RADIUS accounting means tracking and recording the user’s activity after they successfully log in to a network.

How RADIUS Accounting Works (Step-by-Step)

User connects to the network (for example, office Wi-Fi).

After authentication, the router sends a message to the RADIUS server saying: 🟢 “User Samir just logged in!” → (this is called Accounting-Start).

While you are connected, the router might send updates: 🔁 “Samir has used 500MB so far.” → (Interim-Update).

When you disconnect, it sends another message: 🔴 “Samir has logged out.” → (Accounting-Stop).

The RADIUS server stores all these details in a log or database.

Why RADIUS Accounting is Important

📊 Usage Reports – admins can see who used the network and when.

💰 Billing – ISPs can charge based on time or data used.

🧱 Security – helps detect unusual or unauthorized activity.

🧾 Auditing – keeps official logs for compliance or investigation.