System Requirements

Hardware

The hardware you need **depends on the number of subscribers** and on how busy your network is (number of online users, routers and logins per minute). A small network needs a modest server; a network with tens of thousands of users needs much more CPU, RAM and fast storage.

Contact Snono support with your number of subscribers to get the right server size before buying hardware or a VPS.

General recommendations for every installation:

- A reliable, well-branded server (Dell, HP, Lenovo…) or a good virtual machine / VPS.
- **SSD** storage (fast disks matter more than disk size).
- A **second disk** (or Google Drive) for backups.
- A stable **internet connection**, required for license activation and updates.
- Plan for growth: it is easier to start with spare capacity than to move a busy server later.

Operating system

SAS Radius runs on **Ubuntu 18.04**. The ISO installs everything automatically. Don't upgrade the operating system to a newer Ubuntu release.

Network

Traffic	Direction	Ports
RADIUS authentication and accounting	Routers → SAS Radius	UDP 1812, 1813
Disconnect / CoA	SAS Radius → routers	UDP 1700 (or the port set in the NAS form)
Admin panel and user portal	Browsers → SAS Radius	TCP 80 / 443

Traffic	Direction	Ports
License, updates	SAS Radius → internet	license.snono.systems, update servers

There must be no NAT between SAS Radius and the routers (use a VPN tunnel for remote routers).

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