



eduroam workshop

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Why eduroam ? (1)

What are we trying to solve ?

- Mobile students, staff & researchers
- Need to provide visitors with secure access to the local Wi-Fi service = huge administrative headaches.



Why eduroam ? (2)

Possible solutions:

- Public guest account or Guest SSID with a shared secret
=> gets shared so congested network & no accountability



- Temporary accounts on a person-by-person basis
=> very time-consuming & expensive on a large campus



Why eduroam ? (3)

Optimal solution:

- A federated wifi network:



=> Connect to wifi using your local credentials

=> No guest account & no shared password

=> Access to internet at any participating institution in the world



What is eduroam ?

- eduroam is short for "education roaming". It is a global federation of academic institutions providing secure and seamless wireless internet access for students, faculty, and staff
- Institutions can join the eduroam federation in one of 3 ways:
 - Service Provider (SP)
 - Identity Provider (IdP)
 - SP + IdP

eduroam SP

- An eduroam Service Provider or SP is an instance that offers eduroam as a service, i.e. publishing the eduroam SSID on premises and allowing people to connect. This can be:



Libraries



Coffee shops



Airports



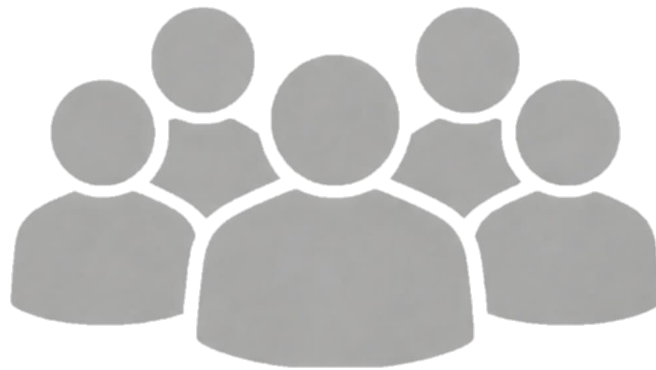
Train stations



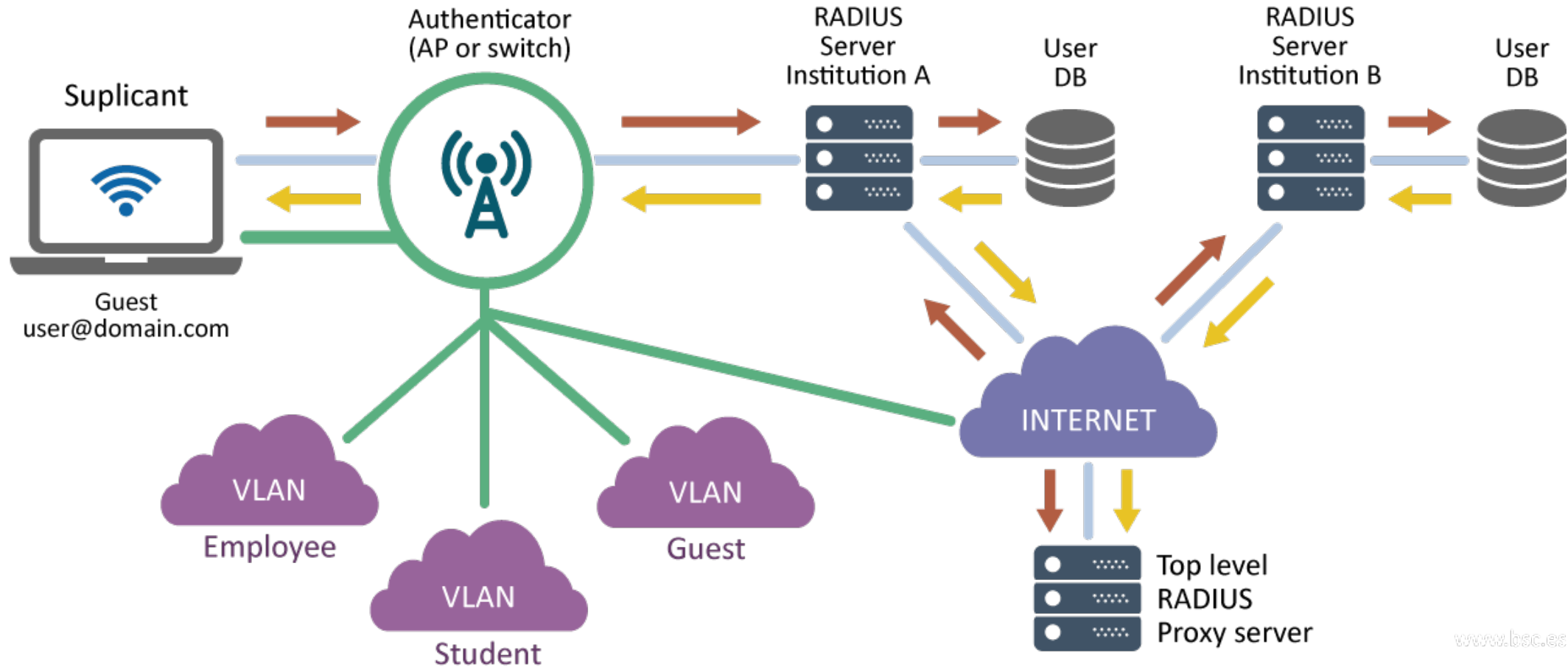
University campuses

eduroam IdP

- An eduroam Identity Provider or IdP is an instance that joins local users to the eduroam federation, allowing them to use the eduroam network anywhere they go
- Only institutions in education or research may join the federation

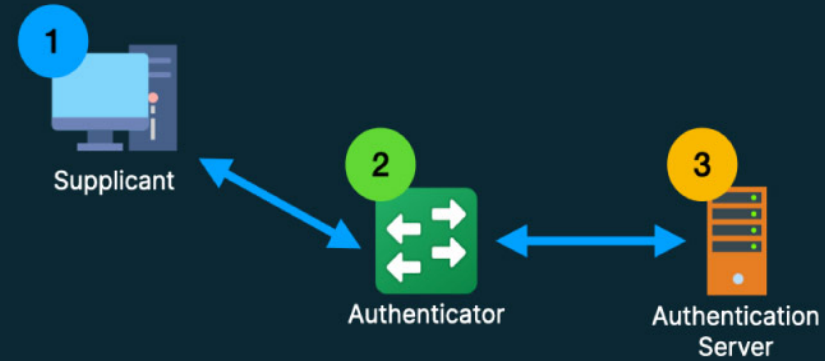


How does it work ?

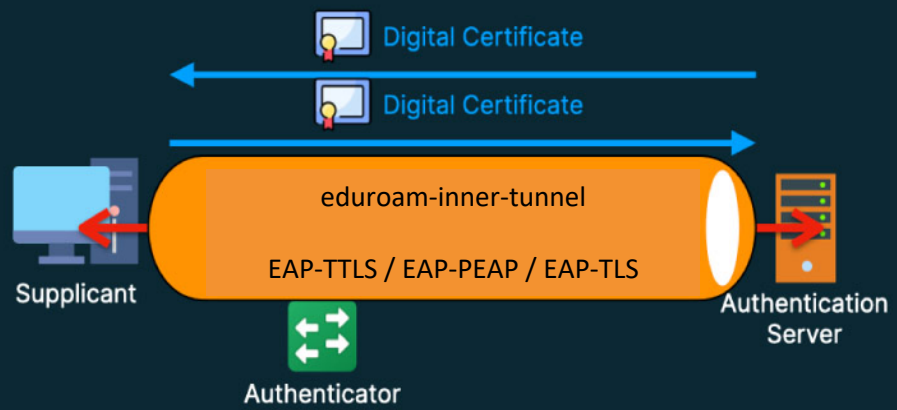


www.bsc.es

How does it work ?



Phase 1: outer auth
anonymous@um5.ac.ma



Phase 2: inner auth
ahmad@um5.ac.ma
myS3cr3tPasswd

How to join ?

- 1- Set up a RADIUS server connected to your institutional identity server (LDAP).
- 2- Talk to your NRO & join the federation.
- 3- Connect your access points to your RADIUS server.

Workshop program

Day 1:

- 8:30 to 9:00: welcome & networking
- 9:00 to 10:30: eduroam presentation & preparing the environment
- 10:30 to 11:00: coffee break
- 11:00 to 13:00: eduroam SP installation
- 13:00 to 14:00: lunch
- 14:00 to 16:00: joining the federation & testing

Day 2:

- 9:00 to 10:30: eduroam IdP configuration
- 10:30 to 11:00: coffee break
- 11:00 to 12:30: testing & troubleshooting
- 12:30 to 13:00: open mic & closing remarks

