

Microsoft NPS 2008R2 config to avoid bad usernames flooding NRPS

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NPS doesn't offer any conditional/branching features, or a way to bind a client/group to a set of policies, therefore you have to be careful to make sure your policies match appropriately.

RADIUS clients

Home service providers: you should create client entries for each NRPS under the "RADIUS Clients" section; be sure to set their "Friendly Name" to NRPS1, NRPS2, NRPS3 etc. so you can match them below.

Visited service providers: you should create group called "NRPS" in the "Remote RADIUS Server Groups" section. Add the 3 NRPS IPs and set their secrets.

Connection Policies

Home sites should accept everything from the NRPS - that is, only match on the "Client-Friendly-Name" that you've given to the NRPSes.

You should then create the following connection policies, in this order:

1. Home service providers - for authentication of your roaming users

Client-Friendly-Name matches ^NRPS.*
[Hint - n.b. NO extra conditions here - accept all from NRPS]
Authenticate locally

2. Visited and Home service providers - for authentication of your users on your own eduroam service

User-Name matches ^([^\@]*)@yourrealm\.ac\.uk\$
[Hint - plus matches required to limit to eduroam (see 'limiting matches to eduroam' below)]
Authenticate locally

3. Visited service providers - for authentication of visitors

User-Name matches `^[^@]*@[-a-zA-Z0-9]+\.[-a-zA-Z0-9]+`
[Hint - plus matches required to limit to eduroam (see 'limiting matches to eduroam' below)]
Forward to NRPS [Hint - your NRPS group]

Limiting matches to eduroam

In the case of a Visited site, you may be using your NPS server for other things (e.g. VPN, non-eduroam Wi-Fi). In that case, you will need to make your Visited site policies (2 & 3, above) only apply for eduroam authentication.

A common way to do this if your wireless platform sends attributes of the form:

Called-Station-Id = 00-11-22-33-44-55:eduroam

...is to add the following matches to policies 2 & 3:

Called-Station-Id matches `.+:eduroam$`

If your NPS server is dedicated to eduroam use, you can omit this match.

HOWEVER: it is important that you ***NOT*** add a 4th policy saying:

4. No conditions
Authenticate locally

If you do this, your users will be able to configure eduroam at home using "username" when they should be using "username@yourrealm.ac.uk ^[1]", and it will fail for them when they roam to another eduroam site.

Source URL: <https://community-stg.jisc.ac.uk/library/janet-services-documentation/microsoft-nps-2008r2-config-avoid-bad-usernames-flooding-nrps>

Links

[1] <mailto:username@yourrealm.ac.uk>