



Purpose: To enable auto configuration using a Radius Server

There 3 elements that have to be configured for auto configuration via Radius Nomadix Gateway. The Radius Server, Nomadix Gateway and a FTP server.

Nomadix Gateway

1. Configure Radius

Configuration

- Autoconfiguration – enable
- Radius authentication name – unique name
- Radius authentication password – password

Configuration

- Realm based routing settings
- Add (create) radius service profile
 - Unique name test
 - Enable radius authentication service
 - Protocol (specific to server) PAP for this example
 - Primary IP addr x.x.x.x Port 1812 secret-key secret

Configuration

- Radius client settings
 - Routing mode – Fixed
 - Service profile – test (the one you just created)

2. Configure Autoconfiguration

Configuration

Autoconfiguration

- Autoconfiguration – enable
- Radius authentication name – nomadix-hsg1
- Radius password – secret



Radius Server (Steel belted radius is used for example here)

The Nomadix Gateway should be in the Radius server as a RAS client.

The Make/Model should be Nomadix USG, a username/password that has one attribute in the profile for the Auto-config VSA, with the string being a URL that points to a FTP server/folder that contains the configuration files.

1. Insert the Nomadix.dic into the radius/services folder
2. Radius configuration

Create Client –

RAS Clients

Client name – nomadix-hsg1

IP address – x.x.x.x

Make/Model – Nomadix USG

Authentication Shared Secret – secret

Create Profile –

Profiles

Profilename – nomadix-hsg1

Return list attribute – Nomadix-Config-URL

String – <ftp://username:password@ipaddress/config/cnfglist.txt>

Create User –

Users

Username – nomadix-hsg1

Password – nomadix-hsg1

Profilename - nomadix-hsg1



FTP server

The FTP server has a file called cnfglist.txt

The cnfglist.txt is an ascii file consisting of the other files in the directory that will be used for radius based auto-configuration. The directory on the ftp server should contain all files that are referred to in the cnfglist.txt;

access.txt, archive.txt, cnfglist.txt, current.txt, ddns.txt, dhcpools.txt, location.txt, mappings.txt, mfilter.txt, netconf.txt, promocs.txt, realmrte.txt, roomfile.dat, servprof.txt, subnets.dat, termuse.txt, tunprof.txt, uf_dns.txt, uf_ip.txt

1. Create the cnfglist.txt

The format for cnfglist.txt is as follows

Access.txt	0
Archive.txt	0
Current.txt	0
Ddne.txt	0
dhcpools.txt,	0
location.txt	0
mappings.txt	0
mfilter.txt	0
netconf.txt	0
promocs.txt	0
realmrte.txt	0
roomfile.dat	0
servprof.txt	0
subnets.dat	0
termuse.txt	0
tunprof.txt	0
uf_dns.txt	0
uf_ip.txt	0

- note not all files are required – only files that will contain configuration changes are required
 - the “0” is used to maintain a level of changes to the configurations going forward
 - for example if I change the location.txt in the future and only want that file downloaded I would increment the 0 to 1