

Radius Request Example

Let us have a look into a Radius Request example:

- The NAS at 192.168.1.16 sends an Access-Request UDP packet to the RADIUS Server for a user named Nemo logging in on port 3 with password "arctangent".
- The Request Authenticator is a 16 octet random number generated by the NAS.
- The User-Password is 16 octets padded at end with nulls, XORed with D5
SharedSecret | RequestAuthenticator.
- 01 00 00 38 0f 40 3f 94 73 97 80 57 bd 83 d5 cb 98 f4 22 7a 01 06 6e 65 6d 6f 02 12 0d be 70 8d 93 d4 13 ce 31 96 e4 3f 78 2a 0a ee 04 06 c0 a8 01 10 05 06 00 00 00 03
- 1 Code = Access-Request 1
 - 1 Identifier = 0
 - 2 Length = 56
 - 16 Request Authenticator
- Attribute List
 - 6 User-Name = "Nemo"
 - 18 User-Password
 - 6 NAS-IP-Address = 192.168.1.16
 - 6 NAS-Port = 3

Radius Response Example

Here is an example of Response Packets:

- The Radius server authenticates Nemo and sends an Access-Accept UDP packet to the NAS telling it to telnet Nemo to host 192.168.1.3
- The Response Authenticator is a 16-octet MD5 checksum of the code 2, id 0, Length 38, the Request Authenticator from above, the attributes in this reply, and the shared secret.
- 02 00 00 26 86 fe 22 0e 76 24 ba 2a 10 05 f6 bf 9b 55 e0 b2 06 06 00 00 00 01 0f 06 00 00 00 00 0e 06 c0 a8 01 03
- 1 Code = Access-Accept 2
 - 1 Identifier = 0 *same as in Access-Request*
 - 2 Length = 38
 - 16 Response Authenticator
- Attribute List:
 - 6 Service-Type 6 = Login 1
 - 6 Login-Service 15 = Telnet 0
 - 6 Login-IP-Host 14 = 192.168.1.3