



RADIUS/LDAP Authentication Configuration

V005



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Preface

This document is about RADIUS/LDAP configuration and how to set RADIUS/LDAP authentication for N-

Reporter/N-Cloud. The examples here are based on N-Reporter/N-Cloud 6.1.142.

Environment:

CentOS 8/Debian 10 with FreeRADIUS package.

Windows 2019 with Active Directory account.





Chapter 1 RADIUS Configuration

1. RADIUS Configuration

1.1 Install FreeRADIUS Package

- CentOS 8
 - (1) Install FreeRADIUS package

dnf -y install freeradius freeradius-utils

(2) Check FreeRADIUS version

radiusd -v

[root@Cent0S8 ~]# radiusd -v radiusd: FreeRADIUS Version 3.0.20, for host x86_64-redhat-linux-gnu FreeRADIUS Version 3.0.20 Copyright (C) 1999-2019 The FreeRADIUS server project and contributors There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE You may redistribute copies of FreeRADIUS under the terms of the GNU General Public License For more information about these matters, see the file named COPYRIGHT [root@Cent0S8 ~]#

Debian 10

(1) Download FreeRADIUS package

apt -y install freeradius freeradius-utils

(2) Check FreeRADIUS version

freeradius -v

```
root@debian10:~# freeradius -v
radiusd: FreeRADIUS Version 3.0.17, for host x86_64-pc-linux-gnu, built on Apr 22 2019 at 21:23:36
FreeRADIUS Version 3.0.17
Copyright (C) 1999-2017 The FreeRADIUS server project and contributors
There is NO warranty; not even for MERCHANTABILITY or FITNESS FOR A
PARTICULAR PURPOSE
You may redistribute copies of FreeRADIUS under the terms of the
GNU General Public License
For more information about these matters, see the file named COPYRIGHT
```



1.2 Create Dictionary Text

> In Dictionary text, please set parameter names of each brand and the corresponding value or type.

They will be used to analyze RADIUS packets, and the data will be shown in debug pattern or log

| <pre># vi/usr/share/freeradius/dictionary.npartner # -*- text -*- # Copyright (C) 2015 The FreeRADIUS Server project and contributors ####################################</pre> | <pre># vi /usr/share/freeradius/dictionary.npartner # ** text -** # Copyright (C) 2015 The FreeRADIUS Server project and contributors ####################################</pre> | files. | | | | | |
|--|---|--|--|--|-------------|---|--------------------|
| # text # Copyright (C) 2015 The FreeRADIUS Server project and contributors #################################### | # text # Copyright (C) 2015 The FreeRADIUS Server project and contributors #################################### | # vi /usr/share/freer | adius/dictionary.npartner | | | | |
| <pre># Convertex and Convertex and Contributors ####################################</pre> | <pre># Copyright (C) 2015 The FreeRADIUS Server project and contributors ####################################</pre> | # -*- text -*- | | | | | |
| <pre># UP of the time transmission of time t</pre> | With the second of the first of the fir | # Copyright (C) 201 | 5 The FreeRADIUS Server | project and c | ontributors | S | |
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| END-VENDOR N-Partner # -*- text -*- # Copyright (C) 2015 The FreeRADIUS Server project and contributors #################################### | END-VENDOR N-Partner # -*- text -*- # Copyright (C) 2015 The FreeRADIUS Server project and contributors #################################### | ATTRIBUTE | N-Partner-Email | 3 | string |] | |
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| (1) CentOS 8 | # vi /ote/raddb/dictionary | (1) CentOS 8 | | | | | |
| | | # vi /etc/raddb/dictio | onary | | | | |

(2) Debian 10

≻

vi /etc/freeradius/3.0/dictionary

Add a command at the bottom to include "dictionary.npartner" \$INCLUDE /usr/share/freeradius/dictionary.npartner



1.3 Set Connection Information

At the bottom, configure the secret key N-Reporter/N-Cloud and RADIUS server need to connect with

each other. The IP address set here is the external IP of N-Reporter/N-Cloud.



The red part above contains the IP address of N-Reporter/N-Cloud and the secret key.



1.4 Set Account and Password for Authentication

Please set accounts and passwords for RADIUS server authentication and set the domain ID, menu ID, and E-mail. Users can search for the former two in "Domain Management" and "User" of N- Reporter/N-Cloud.

> CentOS 8

| # vi /etc/raddb/users |
|--|
| ≻ Debian 10 |
| # vi /etc/freeradius/3.0/users |
| Enter an account and password for authentication at the bottom |
| npartner Cleartext-Password := "npartner" |
| Reply-Message = "RADIUS npartner", |
| N-Partner-Domain = 1001 , |
| N-Partner-Menu = 2 , |
| N-Partner-Email = "npartner@npartner.local" |
| <pre>npartner Cleartext-Password := "npartner"</pre> |

```
Reply-Message = "RADIUS npartner",
N-Partner-Domain = 1001,
N-Partner-Menu = 2,
N-Partner-Email = "npartner@npartner.local"
```

The red part above contains the account/password for authentication, N-Partner domain ID, N-

Partner menu ID, and N-Partner E-mail.



1.5 Activate RADIUS

If there are RADIUS authentication errors, please check RADIUS log files.

> CentOS 8

(1) Activate the service

| # systemctl restart radiusd && systemctl status radiusd |
|---|
| |
| [root@Cent0S8 ~]# systemctl restart radiusd && systemctl status radiusd |
| ● radiusd.service - FreeRADIUS high performance RADIUS server. |
| Loaded: loaded (/usr/lib/systemd/system/radiusd.service; enabled; vendor preset: disabled) |
| Active: active (running) since Wed 2021-10-27 17:11:04 CST; 6ms ago |
| Process: 6546 ExecStart=/usr/sbin/radiusd -d /etc/raddb (code=exited, status=0/SUCCESS) |
| Process: 6542 ExecStartPre=/usr/sbin/radiusd -C (code=exited, status=0/SUCCESS) |
| Process: 6533 ExecStartPre=/bin/sh /etc/raddb/certs/bootstrap (code=exited, status=0/SUCCESS) |
| Process: 6532 ExecStartPre=/bin/chown -R radiusd.radiusd /var/run/radiusd (code=exited, status=0/SUCCESS) |
| Main PID: 6548 (radiusd) |
| Tasks: 6 (limit: 11514) |
| Memory: 77.0M |
| CGroup: /system.slice/radiusd.service |
| └─6548 /usr/sbin/radiusd -d /etc/raddb |
| |
| Oct 27 17:11:04 CentOS8.localdomain systemd[1]: Stopped FreeRADIUS high performance RADIUS server |
| Oct 27 17:11:04 CentOS8.localdomain systemd[1]: Starting FreeRADIUS high performance RADIUS server |
| Oct 27 17:11:04 CentOS8.localdomain sh[6533]: server.pem: OK |
| Oct 27 17:11:04 CentOS8.localdomain systemd[1]: Started FreeRADIUS high performance RADIUS server |
| [root@CentOS8 ~]# |

(2) Set to enable radius while booting

systemctl enable radiusd
[root@Cent0S8 ~]# systemctl enable radiusd
Created symlink /etc/systemd/system/multi-user.target.wants/radiusd.service → /usr/lib/systemd/system/radiusd.service.
[root@Cent0S8 ~]#

(3) Check the log file

tail /var/log/radius/radius.log

- ➤ Debian 10
 - (1) Activate the service

| # systemctl restart freeradius && systemctl status freeradius | |
|--|--------------------------------|
| <pre>cootddebian(D:-# systemct)'restafe'freeradius && systemct) status freeradius'</pre> | |
| <pre>Jul 20 03:31:57 debianlD freeradius[775]: [/tct/freeradius].0/mode-config/attr_filter_faccess_reject]:11 Check item "FreeRADIUS-Response-Delay-USec" Jul 20 03:31:57 debianlD freeradius[775]: [/tct/freeradius].0/mode-config/attr_filter_faccess_reject]:11 Check item "FreeRADIUS-Response-Delay-USec" Jul 20 03:31:57 debianlD freeradius[775]: [/tct/freeradius].0/mode-config/attr_filter_faccess_reject]:11 Check item "FreeRADIUS-Response-Delay-USec" Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: [/tc]: using cached TLS configuration from previous invocation Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees and Ports Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees and Ports Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears to be 0k sees Jul 20 03:31:57 debianlD freeradius[775]: configuration appears Jul 20 03:31:57 debianlD freeradius[775]: conf</pre> | found in filter list for realm |

(2) Set to enable freeradius while booting

systemctl enable freeradius

(3) Check the log file

tail /var/log/freeradius/radius.log



Chapter 2 LDAP Configuration

2. LDAP Configuration

2.1 Set Windows AD account

> Open "Active Directory Users and Computers"



\succ Click the AD account and click

| File Action View Help Active Directory Users and Saved Queries npatner.local Builtin Computers Domain Controllers ForeignSecurityPrin Managed Service A Domain Controllers Computers Managed Service A Domain Controllers Computers Computers Computers Computers Computers Domain Controllers Security Gr Members of this group DonsAdmins Security Gr DNS Administrator Domain Computers Domain Computers Security Gr All workstations and set Domain Controllers Security Gr All domain guests Domain Users Security Gr All domain users Security Gr Members of this group Security Gr Member | Active Directory Users and Computers | _ | | × | | | | |
|--|--|--|--|--|--|--|--|--|
| Active Directory Users and Saved Queries Active Directory Users and Saved Queries Approximation of the second s | File Action View Help | | | | | | | |
| Active Directory Users and Saved Queries Saved Queries Impartner.local Builtin Computers Domain Controllers ForeignSecurityPrint Managed Service Ar Users Name Type Description Managed Service Ar Description Security Gr Managed Service Ar Description Managed Service Ar Description Security Gr Managed Service Ar Domain Controllers Denied RODC Pas Security Gr Managed Service Ar Domain Computers Security Gr Domain Computers Domain Computers Security Gr Doss Adminis Security Gr DNS Administrators Group Domain Computers Security Gr DNS Lients who are per Domain Computers Security Gr All domain guests Domain Controllers Domain Guests Security Gr All domain guests Domain Users Security Gr All domain guests Security Gr All domain guests Security Gr Members of this group Group Policy Crea Security Gr Members of this group Security Gr Members of this group Members of this group Security Gr Members of this group <td>◆ ⇒ 2 🖬 ¼ 🗉 🗙 🖬 🛛 💀 🛣 🐿</td> <td>1 🍸 🛓</td> <td>٤.</td> <td></td> | ◆ ⇒ 2 🖬 ¼ 🗉 🗙 🖬 🛛 💀 🛣 🐿 | 1 🍸 🛓 | ٤. | | | | | |
| | Active Directory Users and Active Directory Users and Administrator Adminis | Descrip Built-ir Memb Memb Memb DNS A DNS cl Design All dor All dor All dor All dor All dor Built-or Memb Built-ir Memb Servers Memb Design | ption n account ers in this ers of this ers of this ers of this dministra- ients who hated adm rkstations main cont main gues main user hated adm ers of this ers of this ers of this ers of this s in this g ers of this ated adm | t for ad. s group s group s group tors Gro o are per hinistrat and ser trollers i sts s sinistrat s group s group t for gue s group t for gue s group t for gue s group cas group roup ca s group hinistrat | | | | |
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| In tab | "General," | please | check | the | E-mail |
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| partner Properties ? X | | | | | |
|-----------------------------|---------------------|--------------------|---------------------------|------------------|--|
| Member Of Remote control | Dial-in Remote [| Envi Jesktop Se | ronment rvices Profile | Sessions COM+ | |
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| First name: | | | Initials: | | |
| Last name: | | | | | |
| Display name: | npartner | | | | |
| Description: | | | | | |
| Office: | | | | | |
| Telephone number: | | | | Other | |
| E-mail: | npartner@np | artner.local | | | |
| Web page: | | | | Other | |
| | | | | | |
| 0 | K | Cancel | Apply | Help | |



| arther Pr | operties | | | | 1 | ^ |
|--|------------|----------|-----------|----------------|---------------|--------|
| Member Of Dial-in Environment Sessions | | | | | | |
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| General | Address | Account | Profile | Telephones | Organia | zation |
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| Pager | | | | | ther | |
| <u>r</u> agon. | | | | | <u>u</u> nor | |
| Mo <u>b</u> ile: | | | | 0 | t <u>h</u> er | |
| <u>F</u> ax: | | | | C | th <u>e</u> r | |
| IP phon | ne: | | | C | the <u>r</u> | |
| Notes: ncloud:group_id=1001,menu_id=2 | | | | | | |
| | | | | | | |

> In tab "Telephones," enter the group ID and menu ID in "Notes"; click "OK" (essential)

The format must be ncloud:group_id=parameter,menu_id=parameter

Note: group_id: The ID of the domain

Menu_id: The ID of the menu(the information can be checked in backend)

> Check the AD account information

| PS C:\> Get-ADUser npart DisplayName,UserPrincipa | ner -Properties * Select-Object IName,DistinguishedName,EmailAdo | dress,mail,info | |
|--|---|---|---|
| Administrator: Windows PowerShell | | - 0 | × |
| PisplayName : npartner Prope UserPrincipalName : npartnerPrincipalName : CN=npartnerChy EmailAddress : npartnerPnpart info : ncloud:group_ic PS C:\> | Hers - Tablett-Ongett DisplayMame, Userrrincip Her.local Her.local her.local H=1001,menu_id=2 | pa IName, pistingu Isneunane, Ema IlHuuress, ma Il, I | |

The red part above is the Windows AD account in user's environment.





Chapter 3 N-Reporter/N-Cloud Configuration

3. N-Cloud / N-Reporter Configuration

3.1 Configure RADIUS

3.1.1 Configure Connection Information

Log in N-Reporter/N-Cloud with a manager account. Go to "System→ Preference→ System→ Radius / LDAP," check "Enable Radius Authentication," set Radius IP, secret key, account for Radius test and password, and then click "Radius Test." After "Radius test successful," click "Save," and users can log in with the Radius account.

| N-Reporter | _ | Radius test successful | · · · · · · · · · · · · · · · · · · · |
|---------------------------|---|---|---------------------------------------|
| Admin (Global) ~ | | C Home / System / Preference | |
| Event | æ | Event Report Analysis Device System Shortcut | ~ |
| III Report | ₿ | Password Policy Radius / LDAP Login settings System Name System Location File Signature | |
| Analysis | Ð | | |
| Device | æ | Enable Radius Authentication | |
| System | 8 | Radius IP | |
| - Domain Information | | 192,100,9,100 | |
| - S Network | | Secret Key | |
| - P Name Mapping | | | |
| - Port Name Mapping | | Account for Radius Test | |
| – Wail Notification | | nparuter | |
| – 🕑 Audit Log | | Password for Radius Test | |
| - 葦 Preference | | npartner | |
| - Dashboard | | | |
| - Quick Start | | Enable LDAP Authentication | |
| User Manual | | LDAP IP | |
| | G | | |
| | | LDAP BaseDN | |
| | | CN=Users,DC=sherman,DC=local | |
| | | Account for LDAP Test | |
| | | | |
| | | Password for LDAP Test | |
| | | | |
| | | | |
| | | | |
| | | Radius Test LDAP Test | ave |
| | | | |
| | | Copyright © 2009 N-Partner, All rights reserved. | 09:51:47 |
| | | | 00.01.11 |



3.1.2 Login

- If users log in with account "admin" or "superuser," the system will not connect with RADIUS server to log in. If users log in with any other accounts, the system will connect with RADIUS server for authentication and get the user parameters sent back; if the entered account is not recorded in N-Reporter/N-Cloud, the system will automatically add a new user account based on the user parameters sent back.
- ➤ "Radius Login" would show in login page.

| N-CLOUD | |
|---|--|
| npartner | |
| | |
| Radius Login | |
| Forgot password? | |
| © 2009 N-Partner, inc. All rights reserved. | |



3.2 Configure LDAP

3.2.1 Set Connection Information

Log in N-Reporter/N-Cloud with a manager account. Go to "System→ Preference→ System→ Radius / LDAP," check "Enable LDAP Authentication," set LDAP IP, LDAP BaseDN, account for LDAP test and password, and then click "LDAP Test." After "LDAP test successful," click "Save," and users can log in with the LDAP account.

| N-Reporter | _ | | | | LDAP te | est successful | | |
|-----------------------|---|----------------------|-------------------------------|----------------|-------------|-----------------|----------------------|-------------------|
| Admin (Global) ~ | | C Home / Syste | em / Preference | | | | | |
| Event | ⊞ | Event Repo | rt Analysis | Device Syst | em Shortcu | t | | 2 |
| lili Report | æ | Password Policy | Radius / LDAP | Login settings | System Name | System Location | File Signature | |
| Analysis | ₿ | | | | | | | |
| Device | ₿ | Enable Radio | is Authentication | | | | | |
| 🔅 System | Θ | Radius IP | | | | | | |
| - Domain Information | | | | | | | | |
| Network | | Secret key | | | | | | |
| - VIP Name Mapping | | Assessment for Dardi | - To at | | | | | |
| - Port Name Mapping | | Account for Radi | is lest | | | | | |
| – E-Mail Notification | | Password for Ray | tiue Teet | | | | | |
| - C Audit Log | _ | Fassword for Rad | | | | | | |
| - 至 Preference | | | | | | | | |
| – © Quick Start | | | | | | | | |
| User Manual | | Enable LDAF | Authentication | | | | | |
| | G | LDAP IP | | | | | | |
| | | 192.168.8.183 | | | | | | |
| | | LDAP BaseDN | | | | | | |
| | | CN=Users,DC= | npartner,DC=local | | | | | |
| | | Account for LDAF | PTest | | | | | |
| | | npartner | | | | | | |
| | | Password for LD/ | AP Test | | | | | |
| | | npartner | | | | | | |
| | | | | | _ | _ | | |
| | | | | | | Radius Test | LDAP Test | 🖺 Save |
| | | | | | | | | |
| | | Copyright @ 2000 | Dodnos All Julia | account | | 1 | aunt activity O | 22 02 25 00-54.47 |
| | | Copyright © 2009 N | Partner . All rights r | eserved. | | Last acc | count activity 🧿 20. | 22-03-25 09:51:47 |



3.2.2 Login

- If users log in with account "admin" or "superuser," the system will not connect with LDAP server to log in. If users log in with any other accounts, the system will connect with LDAP server for authentication and get the user parameters sent back.
- "LDAP Login" would show in the login page; enter user principal name and password of the AD account to log in.

| N-CLOUD | |
|---|--|
| npartner@npartner.local | |
| | |
| LDAP Login | |
| Forgot password? | |
| © 2009 N-Partner, inc. All rights reserved. | |



3.2.3 Edit Permission in Backend

> After logging in backend, users can see the account in "System→ User"

| Home / System / User | | | | | | | | |
|----------------------------|---------------------|--------------|-------------|-----------------|-------------------|----------------------|-----------------|------------------|
| 🛔 User | | | | | | | | |
| Search | | Q 2 0 | | | | | | |
| Domain | | | | | | | | |
| | | | | | | | | |
| (78) | | | | | | | | |
| Operation Login Account \$ | Domain \$ | First Name 🗢 | Last Name 🗢 | Menu Template 🗢 | Account Status \$ | Connection Status \$ | Last Login IP 🗢 | Last Login Time |
| C admin | Global | | | Domain Admin | Activated | On-line | 192.168.5.59 | 2022/03/24 17:55 |
| Superuser | Cloud Administrator | | | Backend Admin | Activated | On-line | 192.168.5.59 | 2022/03/24 17:4 |
| | | | | | | | | 2022/03/25 98 5 |
| | | | | | | | | 2022/03/25 09 5 |
| | | | | | | | | 2022002/25 08:51 |
| | | | | | | | | 20220025 08 5 |
| | | | | | | | | 202002393 |
| | | | | | | | | 20220025 00 55 |

> To edit the account's permission, click *of* of the account and select a template in "Menu Template"

| Edit User | | |
|--------------------------------------|--------|--------|
| E-Mail Address | | |
| npartner@nparnter.local | | |
| First Name | | |
| npartner@npartner.local | | |
| Last Name | | |
| | | |
| Mobile Phone No. | | |
| | | |
| Select a Language | | |
| English | | ~ |
| Account Status | | |
| O Disabled O Activated Not Activated | | |
| Menu Template | | |
| Domain Admin | | ~ |
| | | |
| | ahmit | Cancel |
| | abrine | Ganoor |



Tel : 04-23752865 Fax : 04-23757458 Sales Information : sales@npartnertech.com Technical Support : support@npartnertech.com