

NRDP - Installing NRDP From Source

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Installing NRDP From Source

This document describes how to install Nagios Remote Data Processor (NRDP) from source. NRDP is a simple, PHP-based passive result collector for use with Nagios. It is designed to be a flexible data transport mechanism and processor, with a simple and powerful architecture that allows for it to be easily extended and customized to fit individual users' needs.


This guide is broken up into several sections and covers different Linux distributions and operating systems (OS). If your Linux Distribution or operating system is not included in this guide then please contact us to see if we can get it added. Some distributions may be missing as we don't have access to a test environment that allows us to develop the documentation.

NRDP 1.5.1 is what this guide instructs you to install, however future versions should also work fine with these steps.

Note: This guide is based on Nagios Core being installed using the following KB article:

[Documentation - Installing Nagios Core From Source](#)

Because this guide is based on Nagios Core already being installed, prerequisites like Apache and PHP will already be installed on the Nagios Core server and hence the installation process is relatively simple.

 **Nagios XI** includes NRDP and hence you **should NOT** follow this documentation.

Editing Files

In many steps of this article you will be required to edit files. This documentation will use the **vi** text editor. When using the **vi** editor:

- To make changes press **i** on the keyboard first to enter insert mode
- Press **Esc** to exit insert mode
- When you have finished, save the changes in **vi** by typing **:wq** and press Enter

Please select your OS:

- [Red Hat Enterprise Linux \(RHEL\)](#)
- [CentOS](#)
- [Oracle Linux](#)
- [Ubuntu](#)
- [SUSE SLES | openSUSE Leap](#)
- [Debian](#)
- [Raspbian](#)
- [Fedora](#)
- [Arch Linux](#)
- [Gentoo](#)
- [FreeBSD](#)
- [Solaris](#)
- [Apple OS X](#)

RHEL | CentOS | Oracle Linux

Prerequisites

RHEL 8 and CentOS 8 require the `php-xml` and `php-json` modules to be installed, execute the following commands to do so:

```
dnf install -y php-xml php-json
```

Downloading the Source

```
cd /tmp
```

```
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwncsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
cp nrdp.conf /etc/httpd/conf.d/
```

Restart Apache Web Server

==== RHEL 5/6 | CentOS 5/6 | Oracle Linux 5/6 =====

```
service httpd restart
```

==== RHEL 7/8 | CentOS 7 | Oracle Linux 7 =====

```
systemctl restart httpd.service
```

You can now proceed to the [Test NRDP](#) section.

Ubuntu

Prerequisites

Ubuntu 16/17/18 requires the `php-xml` module to be installed, execute the following commands to do so:

```
apt-get update
apt-get install -y php-xml
```

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
```

```
sudo mkdir -p /usr/local/nrdp
sudo cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
sudo chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could define a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
sudo vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwnbsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
sudo cp nrdp.conf /etc/apache2/sites-enabled/
```

Restart Apache Web Server

==== Ubuntu 13.x / 14.x ====

```
sudo service apache2 restart
```

==== Ubuntu 15.x / 16.x / 17.x ====

```
sudo systemctl restart apache2.service
```

You can now proceed to the [Test NRDP](#) section.

SUSE SLES | openSUSE Leap

Prerequisites

The `php5-json` or `php7-json` module needs to be installed, execute the following commands to do so:

==== SUSE SLES 12.x | openSUSE 42.x ====

```
sudo zypper --non-interactive install php5-json
```

==== openSUSE 15.x ====

```
sudo zypper --non-interactive install php7-json
```

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NRDP php files.

```
cd /tmp/nrdp-1.5.1/
sudo mkdir -p /usr/local/nrdp
sudo cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
```

```
sudo chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
sudo vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwncsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
sudo cp nrdp.conf /etc/apache2/vhosts.d/
```

Restart Apache Web Server

==== SUSE SLES 11.x ====

```
sudo /sbin/service apache2 restart
```

==== SUSE SLES 12.x | openSUSE ====

```
sudo systemctl restart apache2.service
```

You can now proceed to the [Test NRDP](#) section.

Debian | Raspbian

All steps on Debian require to run as root. To become root simply run:

Debian:

```
su
```

Raspbian:

```
sudo -i
```

All commands from this point onwards will be as root.

Prerequisites

Debian | Raspbian v9 requires the `php-xml` module to be installed, execute the following commands to do so:

```
apt-get update
```

```
apt-get install -y php-xml
```

Downloading the Source

```
cd /tmp
```

```
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
```

```
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could define a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwnbsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
cp nrdp.conf /etc/apache2/sites-enabled/
```

Restart Apache Web Server

==== Debian 7.x ====

```
service apache2 restart
```

==== Debian 8.x / 9.x ====

```
systemctl restart apache2.service
```

You can now proceed to the [Test NRDP](#) section.

Fedora

Prerequisites

The `php-xml` and `php-json` module to be installed, execute the following commands to do so:

```
dnf install -y php-xml php-json
```

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
```

```
cp -r LICENSE server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwnbsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
cp nrdp.conf /etc/httpd/conf.d/
```

Restart Apache Web Server

```
systemctl restart httpd.service
```

You can now proceed to the [Test NRDP](#) section.

Arch Linux

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NRDP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwnbsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit `vi`.

Copy Apache Config File

The `/etc/httpd/conf/httpd.conf` file will also need to be updated to use the config file.

```
cp nrdp.conf /etc/httpd/conf/extra/  
echo 'Include "conf/extra/nrdp.conf"' >> /etc/httpd/conf/httpd.conf
```

Restart Apache Web Server

```
systemctl restart httpd.service
```

You can now proceed to the [Test NRDP](#) section.

Gentoo

Downloading the Source

```
cd /tmp  
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz  
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NRDP php files.

```
cd /tmp/nrdp-1.5.1/  
mkdir -p /usr/local/nrdp  
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp  
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in `vi`:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(  
    "cda35gtdfu72",  
    "90dfs7jwncsd908fng8fhgb54ynq690xc9vt8uw9ty53",  
    "+23rf==34m12n-v73nciu",  
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit `vi`.

Copy Apache Config File

```
cp nrdp.conf /etc/apache2/vhosts.d/
```

Restart Apache Web Server

==== openrc ====

```
rc-service apache2 restart
```

```
==== systemd ====
```

```
systemctl restart apache2.service
```

You can now proceed to the [Test NRDP](#) section.

FreeBSD

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NRDP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwnbsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
cp nrdp.conf /usr/local/etc/apache24/Includes/
```

Restart Apache Web Server

```
service apache24 restart
```

You can now proceed to the [Test NRDP](#) section.

Solaris

Tested with Solaris 11.

Downloading the Source

```
cd /tmp
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
```



```
wget -O nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
mkdir -p /usr/local/nrdp
cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(
    "cda35gtdfu72",
    "90dfs7jwncsd908fng8fhgb54ynq690xc9vt8uw9ty53",
    "+23rf==34m12n-v73nciu",
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

```
cp nrdp.conf /etc/apache2/2.2/conf.d/
```

Restart Apache Web Server

```
svcadm disable apache22
svcadm enable apache22
```

You can now proceed to the [Test NRDP](#) section.

Apple OS X

Downloading the Source

```
cd /tmp
curl -L -o nrdp.tar.gz https://github.com/NagiosEnterprises/nrdp/archive/1.5.1.tar.gz
tar xzf nrdp.tar.gz
```

Copy Files

The `/usr/local/nrdp` directory is going to be created to store the NDRP php files.

```
cd /tmp/nrdp-1.5.1/
sudo mkdir -p /usr/local/nrdp
sudo cp -r clients server LICENSE* CHANGES* /usr/local/nrdp
sudo chown -R nagios:nagios /usr/local/nrdp
```

Define Tokens

The token is what the client uses to authenticate with NRDP on the Nagios Core server. You can use the same token on all your clients, or you could defined a different token for each client. Defining a different token for each client allows you to revoke access at a later date by removing the token, but it also adds an extra level of administration.

You will need to edit the `config.inc.php` file and define the token(s) you want to use. Execute the following command to open the file in vi:

```
sudo vi /usr/local/nrdp/server/config.inc.php
```

The section to define the tokens will be at the top of the file, it is a PHP array. Here is an example of three tokens:

```
$cfg['authorized_tokens'] = array(  
    "cda35gtdfu72",  
    "90dfs7jwncsd908fng8fhgb54ynq690xc9vt8uw9ty53",  
    "+23rf==34m12n-v73nciu",  
);
```

Each token must be surrounded by double quotes and end with a comma:

```
"",
```

Once you've added the tokens save the `config.inc.php` file and exit vi.

Copy Apache Config File

The `httpd.conf` file also needs to be updated to include the new config file.

```
sudo cp nrdp.conf /opt/local/apache2/conf/extra/  
printf '\nInclude conf/extra/nrdp.conf\n' | sudo tee -a /opt/local/apache2/conf/httpd.conf
```

Restart Apache Web Server

```
sudo port reload apache2
```

You can now proceed to the [Test NRDP](#) section.

Test NRDP

NRDP is now running, to confirm this you can open the NRDP Web Interface.

Point your web browser to the ip address or FQDN of your NRDP server, for example:

```
http://10.25.5.143/nrdp
```

```
http://core-013.domain.local/nrdp
```

You will be presented with a screen similar to the following:

NRDP · Nagios Remote Data Processor

[Submit Nagios Command](#) [Submit Check Result](#)

Token

Use the token you've configured in your `config.inc.php` file.

[XML Check Result](#) [JSON Check Result](#)

```
{  
  "checkresults": [  
    {  
      "checkresult": {  
        "type": "host",  
        "checktype": "1"  
      }  
    }  
  ]  
}
```

```

    "hostname": "somehost",
    "state": "0",
    "output": "Everything looks okay! | perfdata=1;"
  },
  {
    "checkresult": {
      "type": "service",
      "checktype": "1"
    },
    "hostname": "somehost",
    "servicename": "someservice",
    "state": "1",
    "output": "WARNING: Danger Will Robinson! | perfdata=1;"
  }
]

```

Check result data in JSON format.

[Submit JSON Check Result](#)

To test that it is working you are going to submit a passive check result. You can see in the screenshot that the **Token** field has been populated and both a **host** and **service** passive check result has been defined. Click the **Submit JSON Check Result** button.

The browser will display an OK under the **Submit JSON Check Result** button if all was successful.

You'll see the following in the `/usr/local/nagios/var/nagios.log` file:

```

[1514933633] Error: Got host checkresult for 'somehost', but no such host can be found
[1514933633] Error: Got check result for service 'someservice' on host 'somehost'. Unable to find service

```

This error message is expected, because the `somehost` host doesn't actually exist in the Nagios configs so Nagios will record this in the log file. The following documentation provides examples of host and service configs:

[NRDP - Passive Host And Service Definitions](#)

If the configs exist then you'll also see this reflected in the Nagios Core GUI:

Host Status Details For All Host Groups					
Limit Results:	100				
Host	Status	Last Check	Duration	Status Information	
somehost	UP	01-03-2018 10:04:59	0d 0h 0m 8s	Everything looks okay!	

Service Status Details For Host 'somehost'						
Limit Results:	100					
Host	Service	Status	Last Check	Duration	Attempt	Status Information
somehost	someservice	WARNING	01-03-2018 10:04:59	0d 0h 0m 21s	1/4	WARNING: Danger Will Robinson!

Additional Reading

The following KB article explains the `send_nrdp` client which can help integrate passive checks with Nagios Core.

[Documentation - NRDP - send_nrdp Client](#)

Final Thoughts

For any support related questions please visit the [Nagios Support Forums](#) at:

<http://support.nagios.com/forum/>

Posted by: tlea - Fri, Jun 30, 2017 at 12:41 AM. This article has been viewed 21969 times.

Online URL: <https://support.nagios.com/kb/article/nrdp-installing-nrdp-from-source-602.html>