

# NRDP - send\_nrdp Client

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## Overview

This KB article explains the send\_nrdp NRDP clients that are available and how to use them. In the current release of NRDP the following client scripts are available:

- [send\\_nrdp.php](#)
- [send\\_nrdp.py](#)
- [send\\_nrdp.sh](#)

The following topics are also discussed:

- [Using STDIN](#)
- [Using An XML File](#)

## Requirements

To use the NRDP client you require the following:

- NRDP URL
  - This is the address that the NRDP server can be contacted on, for example:
  - `http://10.25.5.2/nrdp`
- NRDP Token
  - The token is the authentication method to connect to the NRDP server, it's like a password, for example:
  - `XXXXXX`

## send\_nrdp.php

This client is a PHP script, which means that the PHP language needs to be installed on the machine you are executing it on.

### Usage

```
./send_nrdp.php --url=<url> --token=<token> --host=<hostname> [--service=<servicename>] --state=<state> --output=<output> [--usestdin]

<url>           = The URL used to access the remote NRDP agent.
<token>        = The secret token used to access the remote NRDP agent.
<hostname>     = The name of the host associated with the passive host/service check result.

<servicename> = For service checks, the name of the service associated with the passive check result.
<state>       = An integer indicating the current state of the host or service.
<output>     = Text output to be sent as the passive check result. Newlines should be encoded with encoded newlines (\n).
<usestdin>   = Accept check result data from STDIN instead of --host,--service,--state,--output flags
               Each line contains a check result in the format of:
                   host[DELIM]state[DELIM]output[DELIM]
                   or
                   host[DELIM]service[DELIM]state[DELIM]output[DELIM]
<delim>      = The delimiter (DELIM above) to use when processing from STDIN. The default is \t (TAB)
```

Send a passive host or service check result to a remote Nagios instance using the NRDP agent.

Host example with an UP state:

```
./send_nrdp.php --url=http://10.25.5.2/nrdp --token=XXXXX --host=centos01 --state=0 --output="The host is up and OK"
```

Service example with a WARNING state:

```
./send_nrdp.php --url=http://10.25.5.2/nrdp --token=XXXXX --host=centos01 --service="Disk Usage" --state=1 --output="WARNING: The disk
```

## send\_nrdp.py

This client is a Python script, which means that the Python language needs to be installed on the machine you are executing it on.

### Usage

```
./send_nrdp.py --help
```

```

usage: send_nrdp.py [-h] [-u URL] [-t TOKEN] [-H HOSTNAME] [-s SERVICE]
                  [-S STATE] [-o OUTPUT] [-f FILE] [-d DELIM] [-c CHECKTYPE]

optional arguments:
  -h, --help            show this help message and exit
  -u URL, --url URL     ** REQUIRED ** The URL used to access the remote NRDP agent.
  -t TOKEN, --token TOKEN
                        ** REQUIRED ** The authentication token used to access the
                        remote NRDP agent.
  -H HOSTNAME, --hostname HOSTNAME
                        The name of the host associated with the passive host/service
                        check result.
  -s SERVICE, --service SERVICE
                        For service checks, the name of the service associated with the
                        passive check result.
  -S STATE, --state STATE
                        An integer indicating the current state of the host or service.
  -o OUTPUT, --output OUTPUT
                        Text output to be sent as the passive check result.
                        Newlines should be encoded with encoded newlines (\n).
  -f FILE, --file FILE  This file will be sent to the NRDP server specified in -u
                        The file should be an XML file in the following format:

                        #####
                        <?xml version='1.0'?>
                        <checkresults>
                          <checkresult type="host" checktype="1">
                            <hostname>YOUR_HOSTNAME</hostname>
                            <state>0</state>
                            <output>OK|perfdata=1.00;5;10;0</output>
                          </checkresult>
                          <checkresult type="service" checktype="1">
                            <hostname>YOUR_HOSTNAME</hostname>
                            <servicename>YOUR_SERVICENAME</servicename>
                            <state>0</state>
                            <output>OK|perfdata=1.00;5;10;0</output>
                          </checkresult>
                        </checkresults>
                        #####
  -d DELIM, --delim DELIM
                        With only the required parameters send_nrdp.py is capable of
                        processing data piped to it either from a file or other process.
                        By default, we use t (\t) as the delimiter however this may be
                        specified with the -d option data should be in the following
                        formats of one entry per line:
                        printf "<hostname>\t<state>\t<output>\n"
                        printf "<hostname>\t<service>\t<state>\t<output>\n"
  -c CHECKTYPE, --checktype CHECKTYPE
                        1 for passive 0 for active

```

#### Host example with an UP state:

```
./send_nrdp.py -u http://10.25.5.2/nrdp/ -t XXXXX -H centos01 -S 0 -o "The host is up and OK"
```

#### Service example with a WARNING state:

```
./send_nrdp.py -u http://10.25.5.2/nrdp/ -t XXXXX -H centos01 -s "Disk Usage" -S 1 -o "WARNING: The disk is 75% full"
```



With the Python script it is important that the URL ends with a /

## send\_nrdp.sh

This client is a shell script, which means that the shell language needs to be installed on the machine you are executing it on.

### Usage

```

./send_nrdp.sh -h

send_nrdp.sh Revision 0.6.1 - Send NRDP script for Nagios

Usage: send_nrdp.sh -u URL -t token [options]

Usage: send_nrdp.sh -h display help

This script is used to send NRDP data to a Nagios server

Required:
  -u,   URL of NRDP server. Usually http://<IP_ADDRESS>/nrdp/
  -t,   Shared token. Must be the same token set in NRDP Server

```

```
Options:
  Single Check:
    -H    host name
    -s    service name
    -S    State
    -o    output

  STDIN:
    [-d delimiter] (default -d "\t")
    With only the required parameters send_nrdp.sh is capable of
    processing data piped to it either from a file or other
    process. By default, we use \t as the delimiter however this
    may be specified with the -d option data should be in the
    following formats one entry per line.
    For Host checks:
    hostname      State      output
    For Service checks
    hostname      servicename  State  output

  File:
    -f /full/path/to/file
    This file will be sent to the NRDP server specified in -u
    The file should be an XML file in the following format
    #####

    <?xml version='1.0'?>
    <checkresults>
      <checkresult type="host" checktype="1">
        <hostname>YOUR_HOSTNAME</hostname>
        <state>0</state>
        <output>OK|perfddata=1.00;5;10;0</output>
      </checkresult>
      <checkresult type="service" checktype="1">
        <hostname>YOUR_HOSTNAME</hostname>
        <servicename>YOUR_SERVICENAME</servicename>
        <state>0</state>
        <output>OK|perfddata=1.00;5;10;0</output>
      </checkresult>
    </checkresults>
    #####

  Directory:
    -D /path/to/temp/dir
    This is a directory that contains XML files in the format
    above. Additionally, if the -d flag is specified, send_nrdp.sh
    will create temp files here if the server could not be reached.
    On additional calls with the same -D path, if a connection to
    the server is successful, all temp files will be sent.
```

#### Host example with an UP state:

```
./send_nrdp.sh -u http://10.25.5.2/nrdp/ -t XXXXX -H centos01 -S 0 -o "The host is up and OK"
```

#### Service example with a WARNING state:

```
./send_nrdp.sh -u http://10.25.5.2/nrdp/ -t XXXXX -H centos01 -s "Disk Usage" -S 1 -o "WARNING: The disk is 75% full"
```

#### These commands will produce output like:

```
Sent 1 checks to http://10.25.5.2/nrdp/
```

## Using STDIN

The scripts are capable of using the standard input (STDIN), commonly done by piping a correctly formatted text string to the `send_nrdp` client.

By default, `\t` (tab) is the delimiter. The string should be in the following formats.

#### Host Checks:

```
hostname      State      output
```

#### Service Checks:

```
hostname      servicename  State  output
```

The `printf` command allows you to generate that format. In addition, it is good practice to add a new line `\n` to the end of the string.

#### A Host Check:

```
printf "centos01\t0\tThe host is up and OK\n"
```

#### A Service Check:

```
printf "centos01\tcentos01\tWARNING\tThe disk is 75% full\n"
```

```
printf "centos01\tDisk Usage\t1\tWARNING: The disk is 75%% full\n"
```

It's also important to note that I needed to use a %% twice so that it is escaped, otherwise it would generate WARNING: The disk is 75 0.000000ull due to how printf works

Now that you have the format, piping the text string to the send\_nrdp client is done like so.

### send\_nrdp.php

```
printf "centos01\t0\tThe host is up and OK\n" | ./send_nrdp.py -u http://10.25.5.2/nrdp/ -t XXXXX
```

### send\_nrdp.py

```
printf "centos01\t0\tThe host is up and OK\n" | ./send_nrdp.php --url=http://10.25.5.2/nrdp --token=XXXXX --usestdin
```

### send\_nrdp.sh

```
printf "centos01\t0\tThe host is up and OK\n" | ./send_nrdp.sh -u http://10.25.5.2/nrdp/ -t XXXXX
```

This command will produce output like:

```
Sent 1 checks to http://10.25.5.2/nrdp/
```

Multiple checks can be sent in the one text string:

```
printf "centos01\t0\tThe host is up and OK\ncentos01\tDisk Usage\t1\tWARNING: The disk is 75%% full\n" | ./send_nrdp.sh -u http://10.25
```

This command will produce output like:

```
Sent 2 checks to http://10.25.5.2/nrdp/
```

## Using An XML File

The send\_nrdp.sh script is capable of using an XML formatted file. Here is an example of an XML file with a host check result:

```
<?xml version='1.0'?>
<checkresults>
  <checkresult type="host" checktype="1">
    <hostname>centos01</hostname>
    <state>0</state>
    <output>The host is up and OK</output>
  </checkresult>
</checkresults>
```

Multiple check results can be included in an XML file. Here is an example of an XML file with a host AND service check result:

```
<?xml version='1.0'?>
<checkresults>
  <checkresult type="host" checktype="1">
    <hostname>centos01</hostname>
    <state>0</state>
    <output>The host is up and OK</output>
  </checkresult>
  <checkresult type="service" checktype="1">
    <hostname>centos01</hostname>
    <servicename>Disk Usage</servicename>
    <state>1</state>
    <output>WARNING: The disk is 75% full</output>
  </checkresult>
</checkresults>
```

Now that you have the format, using the send\_nrdp client with the file is done like so.

### send\_nrdp.php

The send\_nrdp.php script does not currently support check results from an XML file.

### send\_nrdp.py

```
./send_nrdp.py -u http://10.25.5.150/nrdp/ -t XXXXX -f /tmp/nrdp.xml
```

### send\_nrdp.sh

## send\_nrdp.sh

```
./send_nrdp.sh -u http://10.25.5.2/nrdp/ -t XXXXX -f /tmp/nrdp.xml
```

Multiple check results can be included in an XML file. Here is an example of an XML file with a host AND service check result:

```
<?xml version='1.0'?>
<checkresults>
  <checkresult type="host" checktype="1">
    <hostname>centos01</hostname>
    <state>0</state>
    <output>The host is up and OK</output>
  </checkresult>
  <checkresult type="service" checktype="1">
    <hostname>centos01</hostname>
    <servicename>Disk Usage</servicename>
    <state>1</state>
    <output>WARNING: The disk is 75% full</output>
  </checkresult>
</checkresults>
```

## Final Thoughts

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

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

Posted by: **tlea** - Mon, Jun 19, 2017 at 5:58 PM. This article has been viewed 6570 times.

Online URL: [https://support.nagios.com/kb/article/nrdp-send\\_nrdp-client-599.html](https://support.nagios.com/kb/article/nrdp-send_nrdp-client-599.html)