

YP/NIS

Introduction

NIS (formerly called Yellow Pages) allows network management of important administrative files (e.g. the password file). For more information refer to the NIS manpage and [» The Linux NIS\(YP\)/NYS/NIS+ HOWTO](#). There is also a book called [» Managing NFS and NIS](#) by Hal Stern.

Note
This extension has been moved to the » PECL repository and is no longer bundled with PHP as of PHP 5.1.0.

Note
This extension is not available on Windows platforms.

Installing/Configuring

Requirements

None besides functions from standard Unix libraries which are always available (either *libc* or *libnsl*, configure will detect which one to use).

Installation

To get these functions to work, you have to configure PHP with *--enable-yp*.

Runtime Configuration

This extension has no configuration directives defined in *php.ini*.

Resource Types

This extension has no resource types defined.

Predefined Constants

The constants below are defined by this extension, and will only be available when the extension has either been compiled into PHP or dynamically loaded at runtime.

YPERR_ACCESS ([integer](#))

access violation (this has only been added recently and is only available from PECL CVS for now)

YPERR_BADARGS ([integer](#))

The function arguments are bad

YPERR_BADDB ([integer](#))

YP database is bad

YPERR_BUSY ([integer](#))

Database busy

YPERR_DOMAIN ([integer](#))

cannot bind to server in this domain

YPERR_KEY ([integer](#))

no such key in map

YPERR_MAP ([integer](#))

no such map in server's domain

YPERR_NODOM ([integer](#))

Local domain name not set

YPERR_NOMORE ([integer](#))

No more records in map database

YPERR_PMAP ([integer](#))

Can't communicate with portmapper

YPERR_RESRC ([integer](#))

resource allocation failure

YPERR_RPC ([integer](#))

RPC failure - domain has been unbound

YPERR_YPBIND ([integer](#))

Can't communicate with ypbind

YPERR_YPERR ([integer](#))

internal yp server or client error

YPERR_YPSESV ([integer](#))

Can't communicate with ypserv

YPERR_VERS ([integer](#))
YP version mismatch

YP/NIS Functions

yp_all

yp_all -- Traverse the map and call a function on each entry

Description

void yp_all (string \$domain, string \$map, string \$callback)

Warning
This function is currently not documented; only its argument list is available.

Parameters

domain

The NIS domain name.

map

The NIS map.

callback

Return Values

No value is returned.

yp_cat

yp_cat -- Return an array containing the entire map

Description

array **yp_cat** (string \$domain, string \$map)

Returns all map entries.

Parameters

domain

The NIS domain name.

map

The NIS map.

Return Values

Returns an array of all map entries, the maps key values as array indices and the maps entries as array data.

yp_err_string

yp_err_string -- Returns the error string associated with the given error code

Description

string **yp_err_string** (int \$errorcode)

Returns the error message associated with the given error code. Useful to indicate what exactly went wrong.

Parameters

errorcode
The error code.

Return Values

Returns the error message, as a string.

Examples

Example #1 - Example for NIS errors

<pre><?php echo "Error: " . yp_err_string(yp_errno()); ?></pre>

See Also

- [yp_errno\(\)](#)

yp_errno

yp_errno -- Returns the error code of the previous operation

Description

int **yp_errno** (void)

Returns the error code of the previous operation.

Return Values

Returns one of the *YPERR_XXX* error constants.

See Also

- [yp_err_string\(\)](#)

yp_first

yp_first -- Returns the first key-value pair from the named map

Description

array **yp_first** (string \$domain, string \$map)

Gets the first key-value pair from the named *map* in the named *domain*.

Parameters

domain

The NIS domain name.

map

The NIS map.

Return Values

Returns the first key-value pair as an array on success, or **FALSE** on errors.

Examples

Example #2 - Example for the NIS first

```
<?php
$entry = yp_first($domain, "passwd.byname");

$key = key($entry);
$value = $entry[$key];

echo "First entry in this map has key " . $key . " and value " . $value;
?>
```

See Also

- [yp_next\(\)](#)
- [yp_get_default_domain\(\)](#)

yp_get_default_domain

yp_get_default_domain -- Fetches the machine's default NIS domain

Description

string **yp_get_default_domain** (void)

Returns the default domain of the node. Can be used as the domain parameter for successive NIS calls.

A NIS domain can be described a group of NIS maps. Every host that needs to look up information binds itself to a certain domain. Refer to the documents mentioned at the beginning for more detailed information.

Return Values

Returns the default domain of the node or **FALSE**. Can be used as the domain parameter for successive NIS calls.

Examples

Example #3 - Example for the default domain
<pre><?php \$domain = yp_get_default_domain(); echo "Default NIS domain is: " . \$domain; ?></pre>

yp_master

yp_master -- Returns the machine name of the master NIS server for a map

Description

string **yp_master** (string \$domain, string \$map)

Returns the machine name of the master NIS server for a *map*.

Parameters

domain

The NIS domain name.

map

The NIS map.

Return Values

Examples

Example #4 - Example for the NIS master
<pre><?php \$number = yp_master(\$domain, \$mapname); echo "Master for this map is: " . \$master; ?></pre>

See Also

- [yp_get_default_domain\(\)](#)

yp_match

yp_match -- Returns the matched line

Description

string **yp_match** (string \$domain, string \$map, string \$key)

Returns the value associated with the passed *key* out of the specified *map*.

Parameters

domain

The NIS domain name.

map

The NIS map.

key

This key must be exact.

Return Values

Returns the value, or **FALSE** on errors.

Examples

Example #5 - Example for NIS match

```
<?php
$entry = yp_match($domain, "passwd.byname", "joe");
echo "Matched entry is: " . $entry;
?>
```

The above example will output something similar to:

```
joe:##joe:11111:100:Joe User:/home/j/joe:/usr/local/bin/bash
```

See Also

- [yp_get_default_domain\(\)](#)

yp_next

yp_next -- Returns the next key-value pair in the named map

Description

array **yp_next** (string \$domain, string \$map, string \$key)

Returns the next key-value pair in the named *map* after the specified *key*.

Parameters

domain

map

key

Return Values

Returns the next key-value pair as an array, or **FALSE** on errors.

Examples

Example #6 - Example for NIS next

```
<?php
$entry = yp_next($domain, "passwd.byname", "joe");

if (!$entry) {
    echo "No more entries found\n";
    echo "<!--" . yp_errno() . ": " . yp_err_string() . "-->";
}

$key = key($entry);

echo "The next entry after joe has key " . $key
    . " and value " . $entry[$key];
?>
```

See Also

- [yp_first\(\)](#)
- [yp_get_default_domain\(\)](#)

yp_order

yp_order -- Returns the order number for a map

Description

int **yp_order** (string \$domain, string \$map)

Gets the order number for a map.

Parameters

domain

map

Return Values

Returns the order number for a map or **FALSE** on error.

Examples

Example #7 - Example for the NIS order
<pre><?php \$number = yp_order(\$domain, \$mapname); echo "Order number for this map is: " . \$number; ?></pre>

See Also

- [yp_get_default_domain\(\)](#)