ssh2

ssh2://

Secure Shell 2

ENTITY

`ssh2.shell://` `ssh2.exec://` `ssh2.tunnel://` `ssh2.sftp://` `ssh2.scp://` (PECL)

> [!NOTE] In order to use the `ssh2.*://` wrappers, the SSH2 extension available from ENTITY must be installed.

In addition to accepting traditional URI login details, the ssh2 wrappers will also reuse open connections by passing the connection resource in the host portion of the URL.

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- `ssh2.shell://user:pass@example.com:22/xterm`
- `ssh2.exec://user:pass@example.com:22/usr/local/bin/somecmd`
- `ssh2.tunnel://user:pass@example.com:22/192.168.0.1:14`
- `ssh2.sftp://user:pass@example.com:22/path/to/filename`

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Attribute	ssh2.shell	ssh2.exec	ssh2.tunnel	ssh2.sftp	ssh2.scp
Restricted by allow_url_fopen	Yes	Yes	Yes	Yes	Yes
Allows Reading	Yes	Yes	Yes	Yes	Yes
Allows Writing	Yes	Yes	Yes	Yes	No
Allows Appending	No	No	No	Yes (When supported by server)	No

Attribute	ssh2.shell	ssh2.exec	ssh2.tunnel	ssh2.sftp	ssh2.scp
Allows Simultaneous Reading and Writing	Yes	Yes	Yes	Yes	No
Supports `stat`	No	No	No	Yes	No
Supports `unlink`	No	No	No	Yes	No
Supports `rename`	No	No	No	Yes	No
Supports `mkdir`	No	No	No	Yes	No
Supports `rmdir`	No	No	No	Yes	No

Wrapper Summary {role="stream_wrapper"}

Name	Usage	Default
`session`	Preconnected ssh2 resource to be reused	
`sftp`	Preallocated sftp resource to be reused	
`methods`	Key exchange, hostkey, cipher, compression, and MAC methods to use	
`callbacks`		
`username`	Username to connect as	
`password`	Password to use with password authentication	
`pubkey_file`	Name of public key file to use for authentication	
`privkey_file`	Name of private key file to use for authentication	
`env`	Associate array of environment variables to set	
`term`	Terminal emulation type to request when allocating a pty	
`term_width`	Width of terminal requested when allocating a pty	
`term_height`	Height of terminal requested when allocating a pty	
`term_units`	Units to use with term_width and term_height	`SSH2_TERM_UNIT_CHARS`

Context options {role="stream_wrapper"}

ENTITY

Opening a stream from an active connection

```
<?php
$session = ssh2_connect('example.com', 22);
ssh2_auth_pubkey_file($session, 'username', '/home/username/.ssh/id_rsa.pub',
                                            '/home/username/.ssh/id_rsa', 'secret');
$stream = fopen("ssh2.tunnel://$session/remote.example.com:1234", 'r');
?>
```

This `$session` variable must be kept available!

In order to use the `ssh2.*://$session` wrappers, the `$session` resource variable must be kept. The code below will not have the desired effect:

```
<?php
$session = ssh2_connect('example.com', 22);
ssh2_auth_pubkey_file($session, 'username', '/home/username/.ssh/id_rsa.pub',
                                            '/home/username/.ssh/id_rsa', 'secret');
$connection_string = "ssh2.sftp://$session/";
unset($session);
$stream = fopen($connection_string . "path/to/file", 'r');
?>
```

unset() closes the session, because `$connection_string` does not hold a reference to the `$session` variable, just a string cast derived from it. This also happens when the `unset` is implicit because of leaving scope (like in a function).

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