

# InstantSSH Plugin

This documentation is for to the latest version available in our plugins store. For an oldest documentation, see the README.md file inside the plugin archive.

## Introduction

This plugin allow to give your customers a full or restricted shell access.

A customer to which SSH permissions are given can create SSH users and use them to login on the server.

For each customer, you can set the maximum number of allowed SSH users and choose if they can override the default authentication options. The authentication options are those specified in the documentation of the `authorized_keys` file ( see `man authorized_keys` ).

Default authentication options are set as follow:

```
no-agent-forwarding,no-port-forwarding,no-X11-forwarding
```

which in order:

- Forbids authentication agent forwarding
- Forbids TCP forwarding
- Forbids X11 forwarding

You can override default authentication options by editing the **default\_ssh\_auth\_options** option which is defined in the plugin configuration file. In that file, you can also restrict the list of authentication options that your customers can add by editing the **allowed\_ssh\_auth\_options** option. You must note that any authentication option appearing in the the default authentication string must also be specified in the **allowed\_ssh\_auth\_options** option.

## Jailed shells

The Jailed shells allow you to provide SSH access to your customers in a restricted environment from which they can theoretically not escape. It's the preferable way to give an SSH access to an untrusted customer.

Several commands can be added into the jails by simply adding the required application sections to the **app\_sections** configuration option.

The default configuration comes with a set of preselected application sections which allow to setup very restricted jailed shell environments. These environments are setup using busybox which

combines tiny versions of many common UNIX utilities into a single small executable.

See the plugin **config.php** file for further details.

## Requirements

- i-MSCP >= 1.1.19 (plugin API >= 0.2.14)
- openSSH server with public key authentication support enabled

## Debian / Ubuntu packages

- busybox
- libpam-chroot
- makejail

You can install these packages by executing the following commands:

```
# aptitude update
# aptitude install busybox libpam-chroot makejail
```

## Notes

1. If a package is not installed on your system, the plugin installer throws an error
2. If you have any problem with the PAM chroot module read the **Troubleshooting** section below

## Installation

1. Be sure that all required packages as mentioned in the requirements section are installed on your system
2. Login into the panel as admin and go to the plugin management interface
3. Upload the plugin archive
4. Configure the plugin for your needs by editing the **plugins/InstantSSH/config.php** configuration file
5. Install the plugin

## Update

1. Be sure that all required packages as mentioned in the requirements section are installed on your system
2. Backup your **plugins/InstantSSH/config.php** configuration file
3. Login into the panel as admin and go to the plugin management interface
4. Deactivate the plugin
5. Upload the plugin archive
6. Configure the plugin for your needs by editing the **plugins/InstantSSH/config.php** configuration file
7. Activate the plugin

**Note:** Don't forget to read the [update\\_errata.md](#) file.

## Troubleshootings

### PAM chroot module

The **PAM chroot** module shipped with some libpam-chroot package versions (eg. Ubuntu Lucid) doesn't work as expected. For instance, You can see the following logs in the `/var/log/auth.log` file:

```
...
Oct 13 21:04:31 lucid sshd[1509]: PAM unable to
dlopen(/lib/security/pam_chroot.so): /lib/security/pam_chroot.so: undefined
symbol: __stack_chk_fail_local
Oct 13 21:04:31 lucid sshd[1509]: PAM adding faulty module:
/lib/security/pam_chroot.so
...
```

You can fix this easily by following this procedure:

```
# cd /usr/local/src
# mkdir libpam-chroot && cd libpam-chroot
# apt-get install build-essential debhelper libpam0g-dev
# apt-get source libpam-chroot
# cd libpam-chroot*
```

Edit the **Makefile** file to replace the line:

```
CFLAGS=-fPIC -O2 -Wall -Werror -pedantic
```

by

```
CFLAGS=-fPIC -O2 -Wall -Werror -pedantic -fno-stack-protector
```

Rebuild and reinstall the package as follow:

```
# dpkg-buildpackage -uc -us
# cd ..
# dpkg -i libpam-chroot*.deb
```

## Plugin usage

The development of this plugin took me a lot of time, especially the Jailbuilder layer which allows to build the jailed shell environments. Thus, I would ask a small contribution for use of this plugin by doing a donation on my paypal account ( [paypal@nuxwin.com](mailto:paypal@nuxwin.com) ). If you don't understand such asks, or if you do not want donate, just don't use this plugin.

## License

i-MSCP InstantSSH plugin

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## Author(s)

- Laurent Declercq [l.declercq@nuxwin.com](mailto:l.declercq@nuxwin.com)

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