

Install devpi on FreeBSD

03/05/2018 10:09 PM - Daniel Curtis

Status:	Closed	Start date:	03/05/2018
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Development	Estimated time:	1.00 hour
Target version:	FreeBSD 11	Spent time:	1.50 hour

Description

This is a guide on installing a devpi instance on FreeBSD 11-STABLE.

Prepare the Environment

- Make sure the system is up to date:

```
pkg update && pkg upgrade
```

- Add devpi user:

```
pw add user -n devpi -m -s /bin/sh -c "devpi"
```

- Install the dependencies using pkgng:

```
pkg install python3 py36-{pip, setuptools}
```

Install devpi

- Install devpi

```
pip-3.6 install -q -U devpi-server
```

- Initialize the devpi-server config:

```
su - devpi -c 'devpi-server --init'
```

- Test run the devpi server:

```
su - devpi -c 'devpi-server --start --host 192.168.1.100'
```

- Test download a python module:

```
pip install --trusted-host 192.168.1.100 -i http://192.168.1.100:3141/root/pypi numpy
```

- Stop the devpi-server:

```
su - devpi -c 'devpi-server --stop'
```

init script

- Create a folder for the pidfile:

```
mkdir /var/run/devpi
chown devpi /var/run/devpi
```

- Create an init script for devpi notebook:

```
vi /usr/local/etc/rc.d/devpi
```

- And add the following:

```
#!/bin/sh
#
# PROVIDE: devpi
# REQUIRE: LOGIN
#
# Add the following lines to /etc/rc.conf to enable devpi notebook server
#
# devpi_enable (bool): Set to "NO" by default,
#                       Set it to "YES" to enable devpi notebook server

. /etc/rc.subr

name=devpi
command=/usr/local/bin/devpi-server
rcvar=devpi_enable

load_rc_config $name

devpi_enable="${devpi_enable-"NO"}"
devpi_user="${devpi_user-"devpi"}"
devpi_host="${devpi_host-"0.0.0.0"}"
devpi_pidfile="${devpi_pidfile:-"/var/run/devpi/devpi.pid"}"

# /etc/rc.subr use $pidfile (not ${name}_pidfile)
pidfile="${devpi_pidfile}"

start_cmd="su - ${devpi_user} -c '${command} --start --host ${devpi_host}' &"
stop_cmd="${name}_stop"
status_cmd="${name}_status"
getval_cmd="${name}_getval"

devpi_stop()
{
    devpi_pid=$(pgrep -f "devpi-server")

    echo "Stopping ${name}."
    kill -s TERM "$(cat "${devpi_pidfile}")"

    echo "Stopping ${name}."
    kill -s TERM "${devpi_pid}"

    rm ${devpi_pidfile}
}

devpi_status()
{
```

```

# Try its best to find the service's status
if [ -f "${devpi_pidfile}" ]
then
    devpi_pid="$(cat "${devpi_pidfile}")"
fi

if [ -z "${devpi_pid}" ]
then
    devpi_pid=$(pgrep -f "devpi-server")
    [ -n "${devpi_pid}" ] && echo "${devpi_pid}" > "${devpi_pidfile}"
fi

if [ -n "${devpi_pid}" ]
then
    echo "${name} running with pid: $devpi_pid"
else
    echo "${name} not running? (pid not found)"
fi
}

command_args=" >/dev/null 2>&1 &"

load_rc_config $name
run_rc_command "$1"

```

- Make the script executable:

```
chmod +x /usr/local/etc/rc.d/devpi
```

- Start and enable devpi at boot:

```
sysrc devpi_enable=YES
service devpi start
```

Resources

- <https://packaging.python.org/guides/hosting-your-own-index/>
- <https://pypi.python.org/pypi/devpi>
- <https://github.com/devpi/devpi/>
- <https://devpi.net/docs/devpi/devpi/stable/%2Bd/index.html>
- <https://devpi.net/docs/devpi/devpi/stable/+doc/quickstart-pypimirror.html>

History

#1 - 03/05/2018 10:12 PM - Daniel Curtis

- Status changed from New to Resolved
- % Done changed from 0 to 100

#2 - 03/19/2018 08:57 PM - Daniel Curtis

- Status changed from Resolved to Closed