final

Abdul Rahim

24 July 2024

some useful scripts to install:

stable rc checkout.sh

```
#!/bin/bash
## SPDX-License-Identifier: GPL-2.0
 # Copyright(c) Shuah Khan <</pre>
    skhan@linuxfoundation.org>
#
 # LICENSE: GPLv2
 # Example usage: stable_rc_checkout.sh <</pre>
    stable-rc e.g 5.2>
 mkdir -p stable rc
cd stable rc
 git clone git://git.kernel.org/pub/scm/
    linux/kernel/git/stable/linux-stable-
    rc.git
```

linux-\$1.y

Download and applying stable release patches

Alternately, you can download and apply the patch. The following is my workflow for getting the repository ready, applying the patch, compiling, and installing. Run the stable_checkout.sh script once to set up your stable repository. After that, run pre compile setup.sh to get the patch file and apply whenever a stable release patch is released. I apply patches and use the same repository to be able to detect regressions. I save dmesg for the current rc to compare with the next rc. Please feel free to make changes to suit your needs. Also, make sure to pass in the correct release information from the stable release emails as arguments to this script.

stable_checkout.sh

8 cd stable

linux_\$1_stable

12 #cp /boot/ .config # update script

10 cd linux_\$1_stable 11 git checkout linux-\$1.y

pre_compile_setup.sh

5

typically 5.2.x

the patch file

8 # Arg2 is the 1 for rc1 or 2 for rc2

7 # Arg 1 is the stable release version which is

9 # Arg3 is 4.x or 5.x used to call wget to get

```
wget https://www.kernel.org/pub/linux/kernel/
    v$3.x/stable-review/patch-$1-rc$2.gz
git reset --hard
make clean
git pull
gunzip patch-$1-rc$2.gz
```

11 rc=\$?; **if** [[\$rc != 0]]; then exit \$rc; fi

12 su -c "make modules_install install"
13 echo Ready for reboot test of Linux-\$1-\$2

1 echo Testing patch-\$1-rc\$2

7 git apply --index patch-\$1-rc\$2 8 echo "Patch-\$1-rc\$2 applied"

9 head Makefile
10 make -j2 all

dmesg_checks.shi

10

fi

if ["\$1" == ""]; then

exit -1

echo "\$0 " <old name -r>

```
1 release=`uname -r`
2 echo "Start dmesg regression check for
     $release" > dmesg_checks_results
 echo "
     dmesg_checks_results
5
 dmesg -t -l emerg > $release.dmesg_emerg
7 echo "dmesg emergency regressions" >>
     dmesg_checks_results
8 echo "
     dmesg_checks_results
9 diff $1.dmesg_emerg $release.dmesg_emerg >>
     dmesg_checks_results
```

dmesg_checks_results

10 echo "-

```
1 dmesg -t -l crit > $release.dmesg_crit
2 echo "dmesg critical regressions" >>
      dmesg_checks_results
3 echo "----
      dmesg_checks_results
4 diff $1.dmesg_crit $release.dmesg_crit >>
      dmesg_checks_results
5 echo "----
      dmesg_checks_results
7 dmesg -t -l alert > $release.dmesg_alert
8 echo "dmesg alert regressions" >>
      dmesg_checks_results
9 echo "----
      dmesg_checks_results
10 diff $1.dmesg_alert $release.dmesg_alert >>
      dmesg_checks_results
11 echo "-----
      dmesg_checks_results
```

```
1 dmesg -t -l err > $release.dmesg_err
2 echo "dmesg err regressions" >>
      dmesg_checks_results
3 echo "----
      dmesg_checks_results
4 diff $1.dmesg_err $release.dmesg_err >>
      dmesg_checks_results
5 echo "----
      dmesg_checks_results
7 dmesg -t -l warn > $release.dmesg_warn
8 echo "dmesg warn regressions" >>
      dmesg_checks_results
9 echo "----
      dmesg_checks_results
10 diff $1.dmesg_warn $release.dmesg_warn >>
      dmesg_checks_results
11 echo "----
      dmesg_checks_results
```

```
1 dmesg -t > $release.dmesg
2 echo "dmesg regressions" >>
          dmesg_checks_results
3 echo "------" >>
          dmesg_checks_results
4 diff $1.dmesg $release.dmesg >>
          dmesg_checks_results
```

5 echo "---

dmesg_checks_results

```
dmesg -t > $release.dmesg_kern
2 echo "dmesg_kern regressions" >>
     dmesg_checks_results
3 echo "-
     dmesg_checks_results
4 diff $1.dmesg_kern $release.dmesg_kern >>
     dmesg_checks_results
 echo "-
     dmesg_checks_results
  echo "-----
     dmesg_checks_results
```

echo "End dmesg regression check for \$release"

>> dmesg_checks_results