Linux Tutorial

1. Super computing account approved and connected to the course
2. I can run Linux terminal commands through putty on my own machine
3. Intro, 1, 2, 5, 6, 7 (see attached output for section 7 of tutorial)
4. Successfully cloned class repository

-bash-4.2$ ls

Classes Desktop Documents Downloads Maildir Music My Documents New folder Pictures Public Templates Users Videos groups unixstuff www

-bash-4.2$ cd Downloads

-bash-4.2$ ls

-bash-4.2$ ls -l

total 0

-bash-4.2$ ls -l

total 176

-rwxrwx--- 1 ryanm55 ryanm55 178224 Jan 5 10:16 units-1.74.tar.gz

-bash-4.2$ gunzip units-1.74.tar.gz

-bash-4.2$ tar -xvf units-1.74.tar

units-1.74/

units-1.74/README

units-1.74/ChangeLog

units-1.74/units.info

units-1.74/units.doc

units-1.74/getopt1.c

units-1.74/units.dvi

units-1.74/Makefile.in

units-1.74/units.c

units-1.74/getopt.c

units-1.74/getopt.h

units-1.74/units.dat

units-1.74/units.man

units-1.74/units.texinfo

units-1.74/configure.in

units-1.74/configure

units-1.74/strfunc.c

units-1.74/COPYING

units-1.74/Makefile.dos

units-1.74/install-sh

units-1.74/mkinstalldirs

units-1.74/NEWS

units-1.74/ansi2knr.1

units-1.74/ansi2knr.c

units-1.74/aclocal.m4

units-1.74/texi2man

units-1.74/INSTALL

units-1.74/parse.tab.c

units-1.74/parse.y

units-1.74/units.h

-bash-4.2$ ls -l

total 624

drwxr-xr-x 2 ryanm55 ryanm55 4096 Aug 1 2000 units-1.74

-rwxrwx--- 1 ryanm55 ryanm55 634880 Jan 5 10:16 units-1.74.tar

-bash-4.2$ cd units-1.74

-bash-4.2$ ls

COPYING INSTALL Makefile.in README ansi2knr.1 configure getopt.c getopt1.c mkinstalldirs parse.y texi2man units.dat units.dvi units.info units.texinfo

ChangeLog Makefile.dos NEWS aclocal.m4 ansi2knr.c configure.in getopt.h install-sh parse.tab.c strfunc.c units.c units.doc units.h units.man

-bash-4.2$ mkdir ~/units174

-bash-4.2$ ./configure --prefix=$HOME/units174

creating cache ./config.cache

checking for gcc... gcc

checking whether the C compiler (gcc ) works... yes

checking whether the C compiler (gcc ) is a cross-compiler... no

checking whether we are using GNU C... yes

checking whether gcc accepts -g... yes

checking for gcc option to accept ANSI C...

checking how to run the C preprocessor... gcc -E

checking for function prototypes... yes

checking for working const... yes

checking for a BSD compatible install... /usr/bin/install -c

checking for tparm in -lncurses... no

checking for tgetent in -ltermcap... no

checking for readline in -lreadline... no

checking for string.h... yes

checking for stdlib.h... yes

checking for strchr... yes

checking for strspn... yes

checking for strtok... yes

updating cache ./config.cache

creating ./config.status

creating Makefile

-bash-4.2$ make

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c units.c

units.c:2329:5: warning: missing terminating " character [enabled by default]

"sed 's/.\*/& ft\"

^

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c parse.tab.c

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c getopt.c

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c getopt1.c

gcc -o units units.o parse.tab.o getopt.o getopt1.o -lm

sed s!@DATAFILE@!/fsd/ryanm55/units174/share/units.dat! ./units.man > units.1

-bash-4.2$ make check

Checking units

Units seems to work

-bash-4.2$ make install

./mkinstalldirs /fsd/ryanm55/units174/man/man1

mkdir /fsd/ryanm55/units174/man

mkdir /fsd/ryanm55/units174/man/man1

/usr/bin/install -c -m 644 units.1 /fsd/ryanm55/units174/man/man1/`echo units|sed 's,x,x,'`.1

./mkinstalldirs /fsd/ryanm55/units174/info

mkdir /fsd/ryanm55/units174/info

if test -f units.info; then d=.; \

else d=.; fi; \

/usr/bin/install -c -m 644 $d/units.info /fsd/ryanm55/units174/info/units.info; \

# Run install-info only if it exists.

if test -f /fsd/ryanm55/units174/info/dir; then \

if /bin/sh -c 'install-info --version' \

>/dev/null 2>&1; then \

install-info --dir-file=/fsd/ryanm55/units174/info/dir \

/fsd/ryanm55/units174/info/units.info; \

else true; fi \

else true; fi

./mkinstalldirs /fsd/ryanm55/units174/bin /fsd/ryanm55/units174/share/

mkdir /fsd/ryanm55/units174/bin

mkdir /fsd/ryanm55/units174/share

/usr/bin/install -c units /fsd/ryanm55/units174/bin/`echo units|sed 's,x,x,'`

/usr/bin/install -c -m 644 ./units.dat /fsd/ryanm55/units174/share/units.dat

-bash-4.2$ cd ~/units174

-bash-4.2$ ls

bin info man share

-bash-4.2$ cd bin

-bash-4.2$ ls

units

-bash-4.2$ ./units

1948 units, 71 prefixes, 28 functions

You have: You have: 6 feet

Unknown unit 'You'

You have: 6 feet

You want: metres

\* 1.8288

/ 0.54680665

You have: info --file=units.info

^

Parse error

You have: cd ~/units174/bin

^

Parse error

You have: exit

Unknown unit 'exit'

You have: -bash-4.2$ ls

Classes Desktop Documents Downloads Maildir Music My Documents New folder Pictures Public Templates Users Videos groups unixstuff www

-bash-4.2$ cd Downloads

-bash-4.2$ ls

Unknown unit 'bash'

You have: Unknown unit 'Classes'

You have: Unknown unit 'bash'

You have: Unknown unit 'bash'

You have: -bash-4.2$ ls -l

total 0

-bash-4.2$ ls -l

total 176

-rwxrwx--- 1 ryanm55 ryanm55 178224 Jan 5 10:16 units-1.74.tar.gz

-bash-4.2$ gunzip units-1.74.tar.gz

-bash-4.2$ tar -xvf units-1.74.tar

units-1.74/

Unknown unit 'bash'

You have: Unknown unit 'total'

You have: Unknown unit 'bash'

You have: Unknown unit 'total'

You have: ^

Parse error

You have: Unknown unit 'bash'

You have: Unknown unit 'bash'

You have: ^

Parse error

You have: units-1.74/README

units-1.74/ChangeLog

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/units.info

units-1.74/units.doc

units-1.74/getopt1.c

units-1.74/units.dvi

Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/Makefile.in

units-1.74/units.c

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/getopt.c

Unknown unit 'units'

You have: units-1.74/getopt.h

Unknown unit 'units'

You have: units-1.74/units.dat

units-1.74/units.man

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/units.texinfo

units-1.74/configure.in

units-1.74/configure

Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/strfunc.c

units-1.74/COPYING

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/Makefile.dos

units-1.74/install-sh

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/mkinstalldirs

units-1.74/NEWS

Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/ansi2knr.1

units-1.74/ansi2knr.c

units-1.74/aclocal.m4

units-1.74/texi2man

units-1.74/INSTALL

units-1.74/parse.tab.c

Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: Unknown unit 'units'

You have: units-1.74/parse.y

units-1.74/units.h

Unknown unit 'units'

You have: Unknown unit 'units'

You have: -bash-4.2$ ls -l

total 624

drwxr-xr-x 2 ryanm55 ryanm55 4096 Aug 1 2000 units-1.74

Unknown unit 'bash'

You have: Unknown unit 'total'

You have: Unknown unit 'drwxr'

You have: -rwxrwx--- 1 ryanm55 ryanm55 634880 Jan 5 10:16 units-1.74.tar

-bash-4.2$ cd units-1.74

^

Parse error

You have: Unknown unit 'bash'

You have: -bash-4.2$ ls

COPYING INSTALL Makefile.in README ansi2knr.1 configure getopt.c getopt1.c mkinstalldirs parse.y texi2man units.dat units.dvi units.info units.texinfo

ChangeLog Makefile.dos NEWS aclocal.m4 ansi2knr.c configure.in getopt.h install-sh parse.tab.c strfunc.c units.c units.doc units.h units.man

-bash-4.2$ mkdir ~/units174

Unknown unit 'bash'

You have: Unknown unit 'COPYING'

You have: Unknown unit 'ChangeLog'

You have: ^

Parse error

You have: -bash-4.2$ ./configure --prefix=$HOME/units174

creating cache ./config.cache

checking for gcc... gcc

checking whether the C compiler (gcc ) works... yes

checking whether the C compiler (gcc ) is a cross-compiler... no

^

Parse error

You have: Unknown unit 'creating'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: checking whether we are using GNU C... yes

checking whether gcc accepts -g... yes

Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: checking for gcc option to accept ANSI C...

checking how to run the C preprocessor... gcc -E

Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: checking for function prototypes... yes

checking for working const... yes

checking for a BSD compatible install... /usr/bin/install -c

checking for tparm in -lncurses... no

checking for tgetent in -ltermcap... no

checking for readline in -lreadline... no

Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: checking for string.h... yes

checking for stdlib.h... yes

checking for strchr... yes

checking for strspn... yes

checking for strtok... yes

updating cache ./config.cache

creating ./config.status

creating Makefile

-bash-4.2$ make

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c units.c

units.c:2329:5: warning: missing terminating " character [enabled by default]

"sed 's/.\*/& ft\"

Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'checking'

You have: Unknown unit 'updating'

You have: Unknown unit 'creating'

You have: Unknown unit 'creating'

You have: Unknown unit 'bash'

You have: Unknown unit 'gcc'

You have: Unknown unit 'units.c:2329:5:'

You have: ^

Parse error

You have: ^

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c parse.tab.c

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c getopt.c

gcc -DUNITSFILE=\"/fsd/ryanm55/units174/share/units.dat\" -g -O2 -I. -c getopt1.c

gcc -o units units.o parse.tab.o getopt.o getopt1.o -lm

sed s!@DATAFILE@!/fsd/ryanm55/units174/share/units.dat! ./units.man > units.1

^

Parse error

You have: Unknown unit 'gcc'

You have: Unknown unit 'gcc'

You have: Unknown unit 'gcc'

You have: Unknown unit 'gcc'

You have: Unknown unit 'sed'

You have: -bash-4.2$ make check

Checking units

Units seems to work

-bash-4.2$ make install

./mkinstalldirs /fsd/ryanm55/units174/man/man1

mkdir /fsd/ryanm55/units174/man

Unknown unit 'bash'

You have: Unknown unit 'Checking'

You have: Unknown unit 'Units'

You have: Unknown unit 'bash'

You have: Unknown unit '.'

You have: Unknown unit 'mkdir'

You have: mkdir /fsd/ryanm55/units174/man/man1

/usr/bin/install -c -m 644 units.1 /fsd/ryanm55/units174/man/man1/`echo units|sed 's,x,x,'`.1

./mkinstalldirs /fsd/ryanm55/units174/info

mkdir /fsd/ryanm55/units174/info

Unknown unit 'mkdir'

You have: ^

Parse error

You have: Unknown unit '.'

You have: Unknown unit 'mkdir'

You have: if test -f units.info; then d=.; \

else d=.; fi; \

/usr/bin/install -c -m 644 $d/units.info /fsd/ryanm55/units174/info/units.info; \

# Run install-info only if it exists.

if test -f /fsd/ryanm55/units174/info/dir; then \

if /bin/sh -c 'install-info --version' \

>/dev/null 2>&1; then \

install-info --dir-file=/fsd/ryanm55/units174/info/dir \

Unknown unit 'if'

You have: /fsd/ryanm55/units174/info/units.info; \

else true; fi \

else true; fi

./mkinstalldirs /fsd/ryanm55/units174/bin /fsd/ryanm55/units174/share/

^

Parse error

You have: ^

Parse error

You have: mkdir /fsd/ryanm55/units174/bin

mkdir /fsd/ryanm55/units174/share

Unknown unit 'mkdir'

You have: Unknown unit 'mkdir'

You have: /usr/bin/install -c units /fsd/ryanm55/units174/bin/`echo units|sed 's,x,x,'`

/usr/bin/install -c -m 644 ./units.dat /fsd/ryanm55/units174/share/units.dat

-bash-4.2$ cd ~/units174

-bash-4.2$ ls

^

Parse error

You have: ^

Parse error

You have: ^

Parse error

You have: Unknown unit 'bash'

You have: bin info man share

-bash-4.2$ cd bin

Unknown unit 'bin'

You have: Unknown unit 'bash'

You have: -bash-4.2$ ls

units

Unknown unit 'bash'

You have: Unknown unit 'units'

You have: -bash-4.2$ ./units

1948 units, 71 prefixes, 28 functions

Unknown unit 'bash'

You have: Unknown unit 'units,'

You have:

You have: You have: You have: 6 feet

Unknown unit 'You'

Unknown unit 'You'

You have: Unknown unit 'Unknown'

You have: You have: 6 feet

You want: metres

\* 1.8288

/ 0.54680665

-bash-4.2$ ls

Classes Desktop Documents Downloads Maildir Music My Documents New folder Pictures Public Templates Users Videos groups units174 unixstuff www

-bash-4.2$ cd units174

-bash-4.2$ ls

bin info man share

-bash-4.2$ cd bin

-bash-4.2$ ls -l

total 132

-rwxr-xr-x 1 ryanm55 ryanm55 131216 Jan 5 10:27 units

-bash-4.2$ file units

units: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked (uses shared libs), for GNU/Linux 2.6.32, BuildID[sha1]=b361d062596c07569c72d5bbbc470794e6ced7df, not stripped

-bash-4.2$ strip units

-bash-4.2$ ls -l

total 40

-rwxr-xr-x 1 ryanm55 ryanm55 40464 Jan 5 10:38 units

-bash-4.2$ file units

units: ELF 64-bit LSB executable, x86-64, version 1 (SYSV), dynamically linked (uses shared libs), for GNU/Linux 2.6.32, BuildID[sha1]=b361d062596c07569c72d5bbbc470794e6ced7df, stripped

-bash-4.2$