

How to install HEC-RAS on Linux

Login to the Linux machine. In this example, we use NMSU's Discovery node `discovery-l2`:

```
# connect to the NMSU network using either Wi-Fi or VPN
ssh NMSU_username@discovery-l2
# type your NMSU password
```

Download the [HEC-RAS 6.1.0 Linux version](#).

```
mkdir -p ~/archive/hecras
cd ~/archive/hecras
wget https://www.hec.usace.army.mil/software/hec-ras/downloads/HEC-RAS_610_Linux.zip
```

Uncompress the downloaded file.

```
mkdir -p ~/usr/local/opt
cd ~/usr/local/opt
unzip ~/archive/hecras/HEC-RAS_610_Linux.zip
mv HEC-RAS_610_Linux hecras
```

Uncompress Linux binaries.

```
cd hecras
unzip RAS_Linux_test_setup.zip
```

Move binaries and libraries to `~/usr/local/opt/hecras`.

```
mv RAS_Linux_test_setup/Ras_v61/Release bin
chmod a+x bin/*
mv RAS_Linux_test_setup/libs lib
```

Set up environment variables for HEC-RAS. Don't type it; copy-paste `cat << 'EOT' ...EOT` into the terminal.

```
cat << 'EOT' >> ~/.bash_profile
# HEC-RAS
export PATH="$HOME/usr/local/opt/hecras/bin:$PATH"
export
LD_LIBRARY_PATH="$HOME/usr/local/opt/hecras/lib:$HOME/usr/local/opt/hecras/lib/mkl:$HOME/usr/local/opt/hecras/lib/rhel_8:$LD_LIBRARY_PATH"
EOT

. ~/.bash_profile
```

Let's test it.

```
cd RAS_Linux_test_setup/Muncie
cp wrk_source/Muncie.p04.tmp.hdf .
RasUnsteady Muncie.c04 b04
```

Did it run?

Delete extra files and directories.

```
cd ../..
rm -rf RAS* remove*
```

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