

Start-up files

- Start-up files
 - Bash
 - ~/.bash_profile
 - ~/.bashrc
 - ~/.bash_logout
 - Synchronizing the course repository automatically
 - Build your own start-up files
 - Example of .bash_profile
 - Update the start-up environment

Bash

~/.bash_profile

This file is executed for login shells.

~/.bashrc

This file is executed for interactive non-login shells.

~/.bash_logout

This file is executed when a login shell exits.

Synchronizing the course repository automatically

Build your own start-up files

Open Linux terminal, and let's create a file called `.bash_profile` in your home directory (~):

```
code ~/.bash_profile
```

This will create a file called `.bash_profile` in your home directory and open it in VS Code.

Now, we can define what to do automatically when you open a terminal. For example, we can add the following lines to the file:

```
# Sync the course repository automatically
cd ~/APSC-5984-ADS # Change the directory to the course repository
git fetch upstream
git merge upstream/main --no-edit --allow-unrelated-histories
git push
cd ~
```

You can also add aliases to the folders you frequently work on

```
# change WD
export ADS="/home/niche/APSC-5984-ADS"
alias toADS="cd $ADS"
# equivalent to `cd /home/niche/APSC-5984-ADS`

# other commands
alias l="ls -lht"
alias ll="ls -l"
alias la="ls -a"
```

Example of `.bash_profile`

```
cd ~/OneDrive\ -\ Virginia\ Tech

# alias
export profile="/Users/niche/.bash_profile"
export arc1="tinkercliffs1.arc.vt.edu"
alias arc="ssh $arc1"

# Github
alias pull="git pull origin master"
push() {
    git add .
    git rm -r --cache *.DS_Store
    git commit -m "${1}"
    git push
}

# inspect data
alias nrow="awk 'END{print NR}'"
alias ncol="awk 'NR==1{print NF}'"
alias shape="awk 'END{print NR, NF}'"
alias peek="awk NR==2,NR==${2}+1{print} ${1}"

# tasks/analysis
alias l="ls -lht"
alias ol="tail *.log"
alias o="tail *.out"
alias t="top -d 1"

# environment
conda activate tf
```

Update the start-up environment

You can activate the `.bash_profile` by opening a new terminal or by the command:

```
source ~/.bash_profile
```