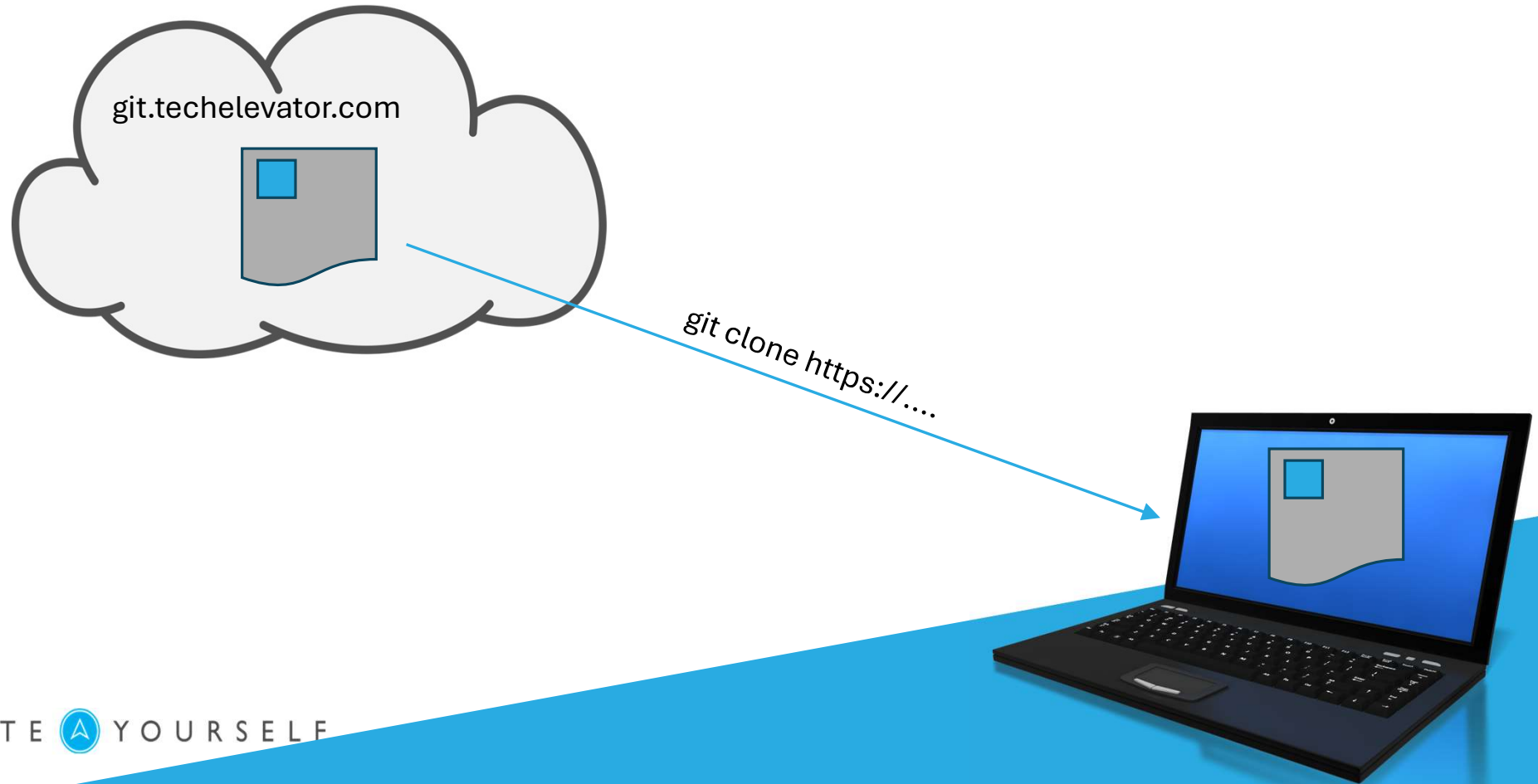


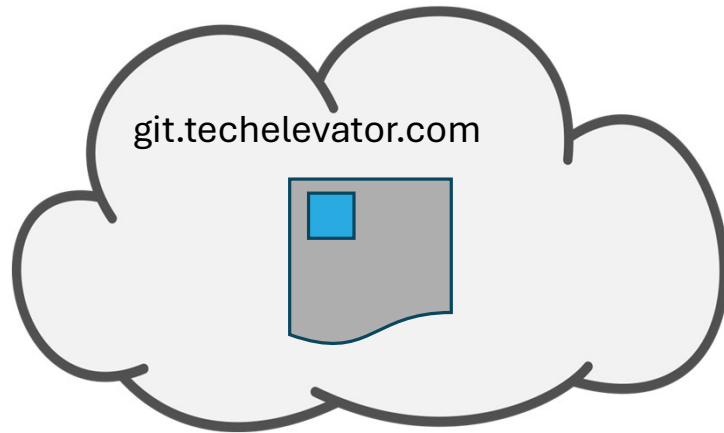
Git Branching



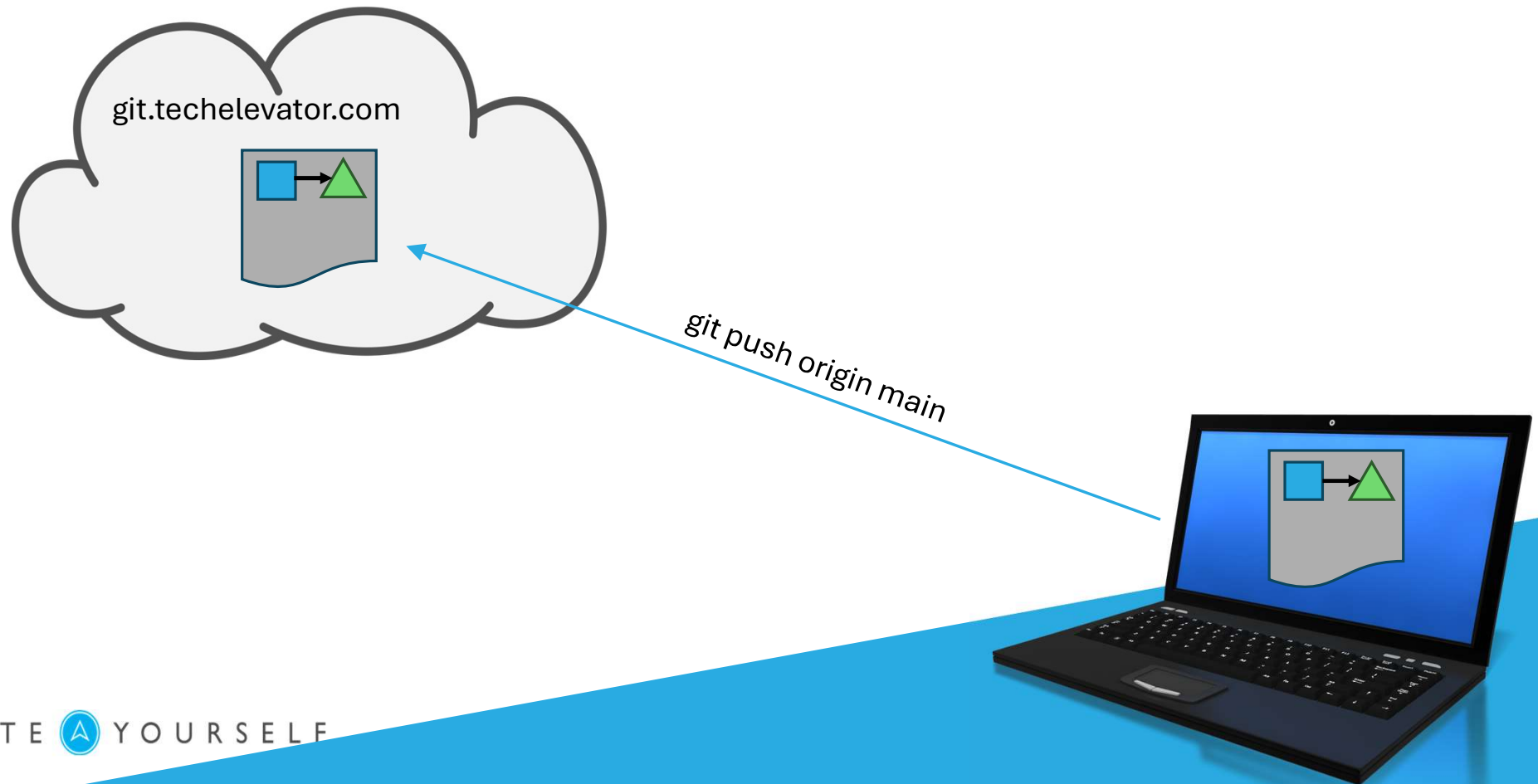
tom-anderson-student-code



tom-anderson-student-code



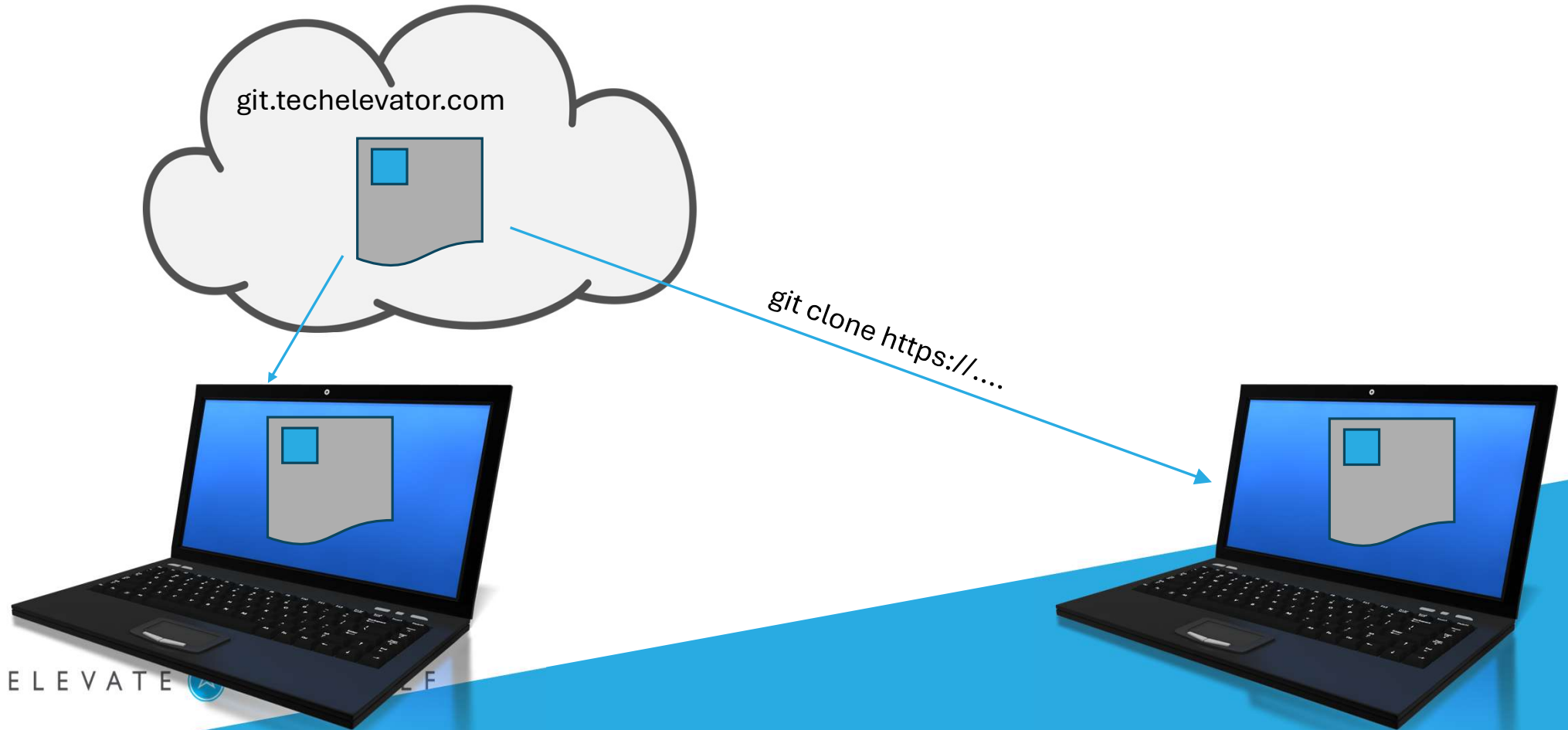
tom-anderson-student-code



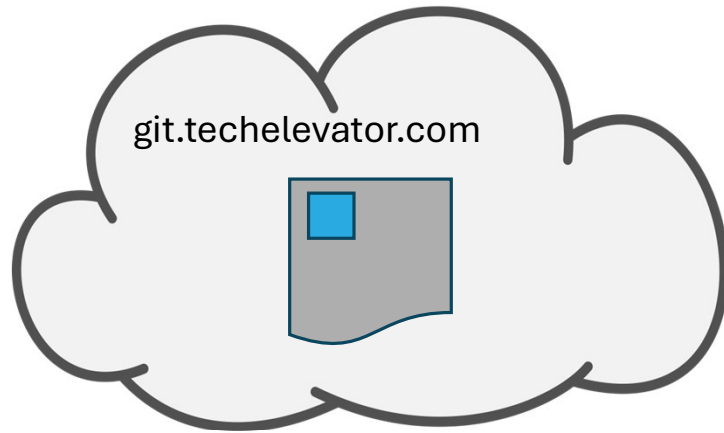
Pair Exercise



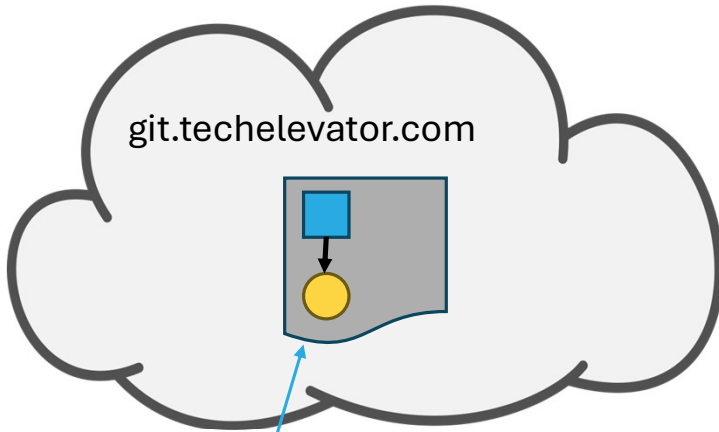
week-1-pair



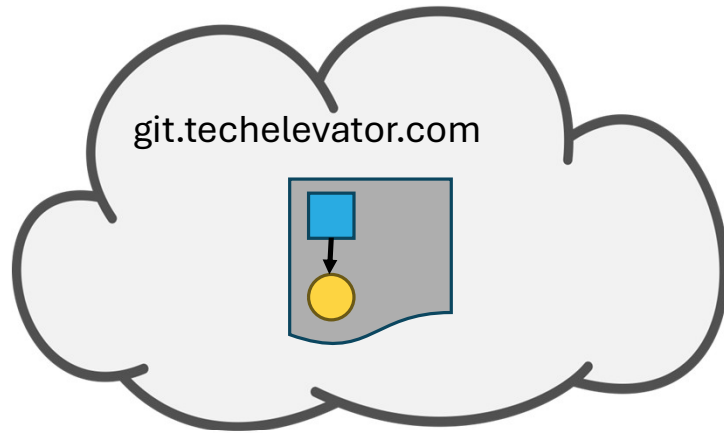
week-1-pair



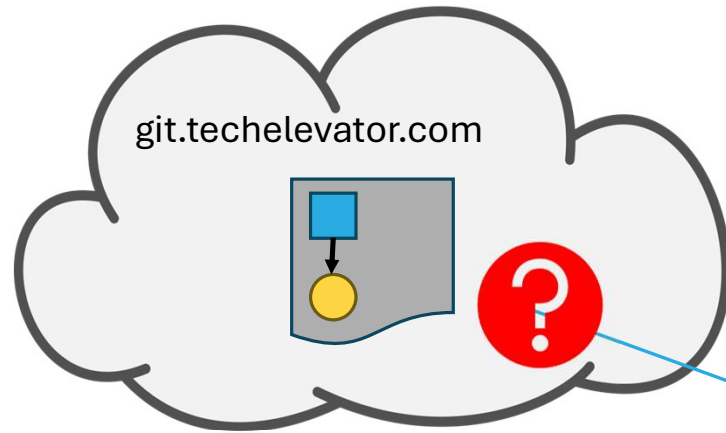
week-1-pair



week-1-pair



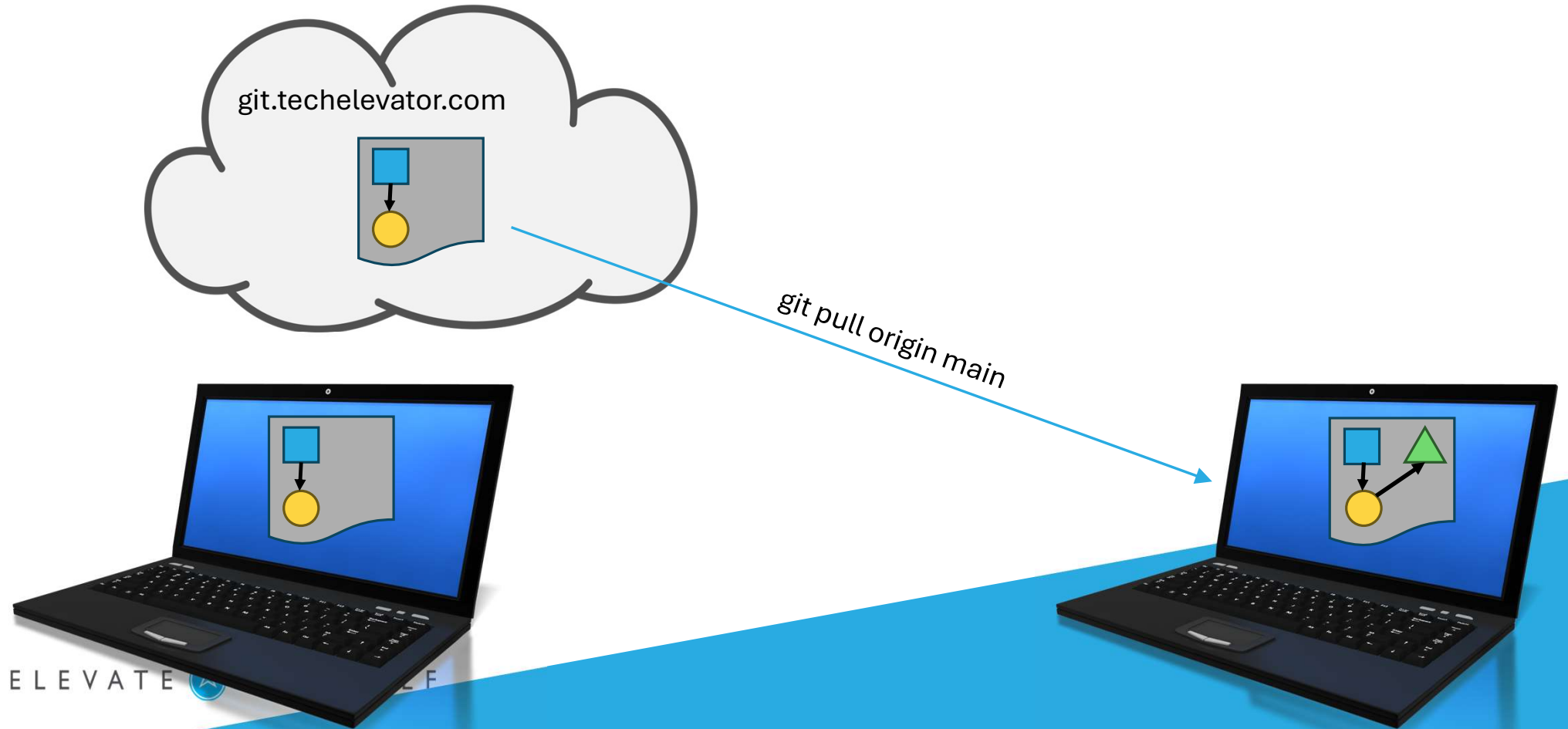
week-1-pair



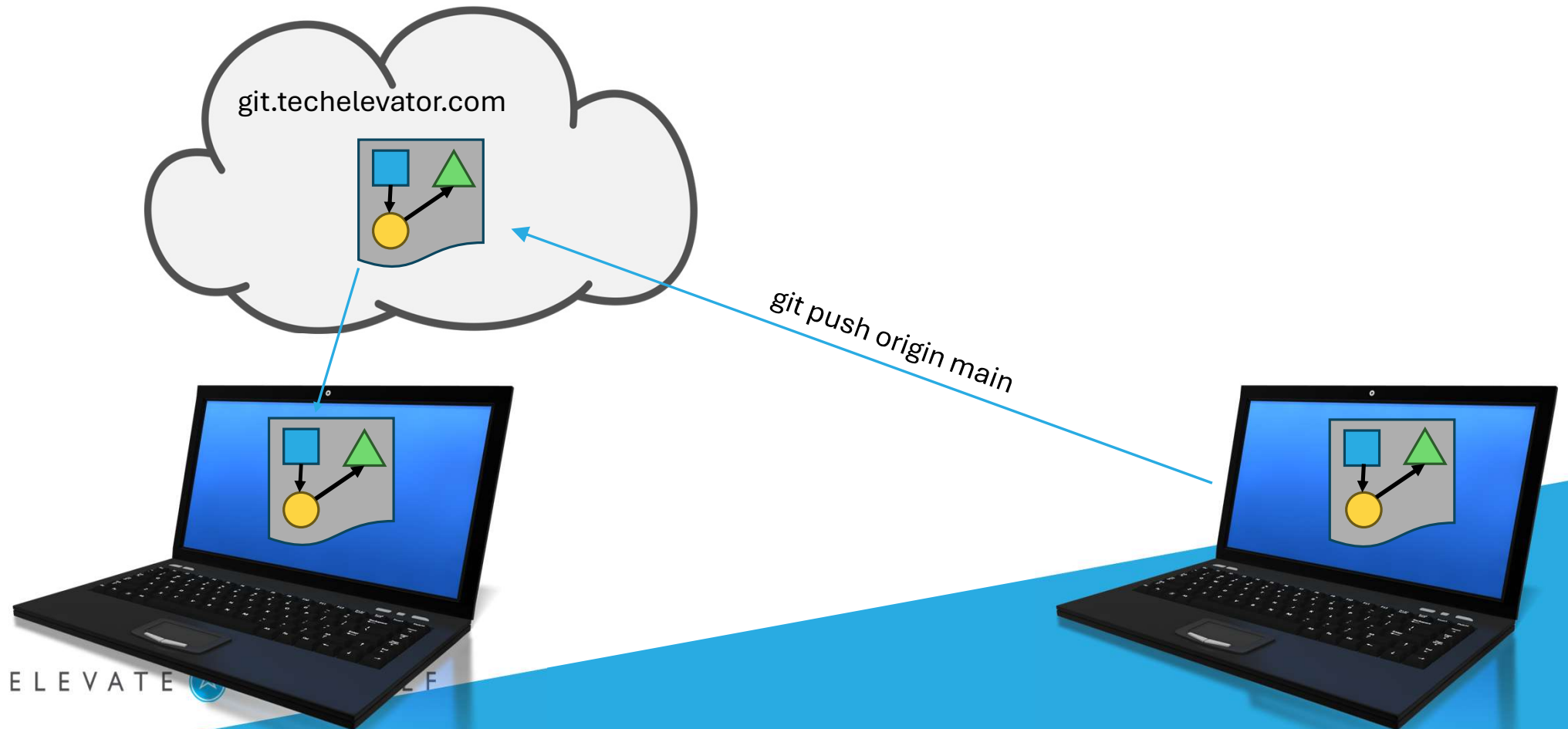
git push origin main



week-1-pair



week-1-pair



Branching

Merge Requests

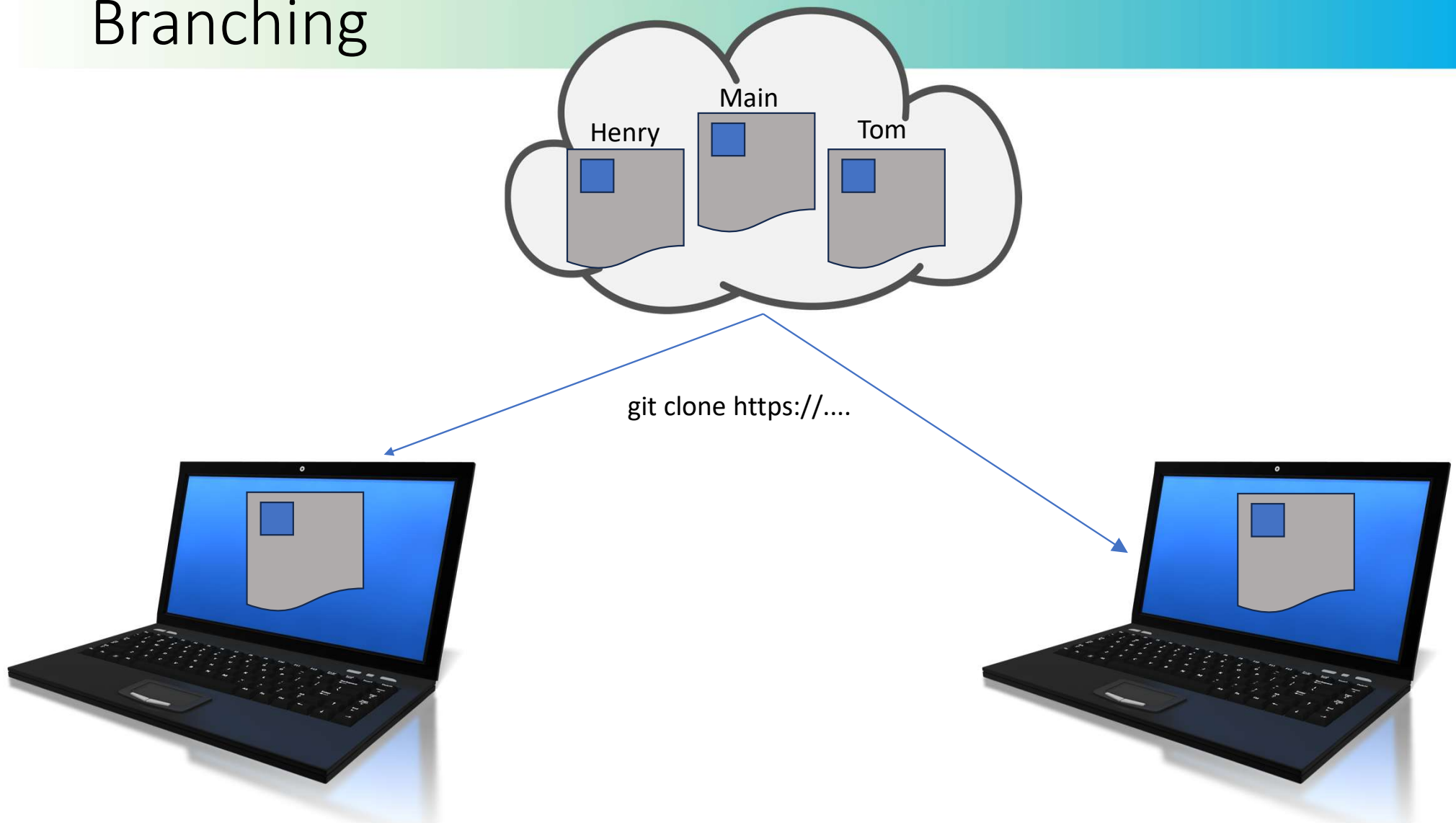


What Happens in the Real World

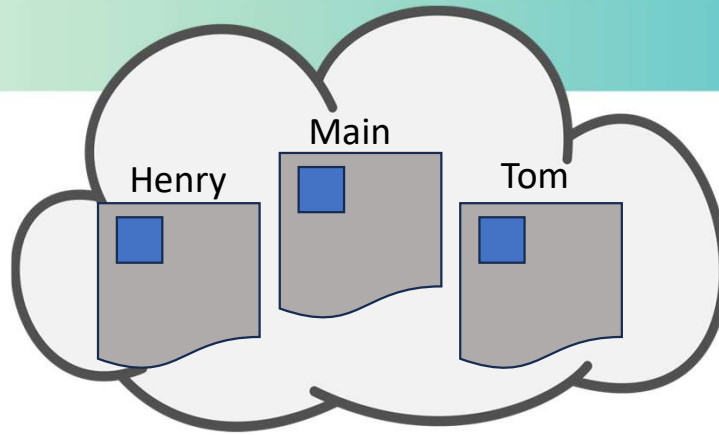
- We use Branches!
- Main is golden
- Must protect main
- Limit Merge Conflicts
- Backup code to cloud
- Allow Experimentation



Branching



Branching

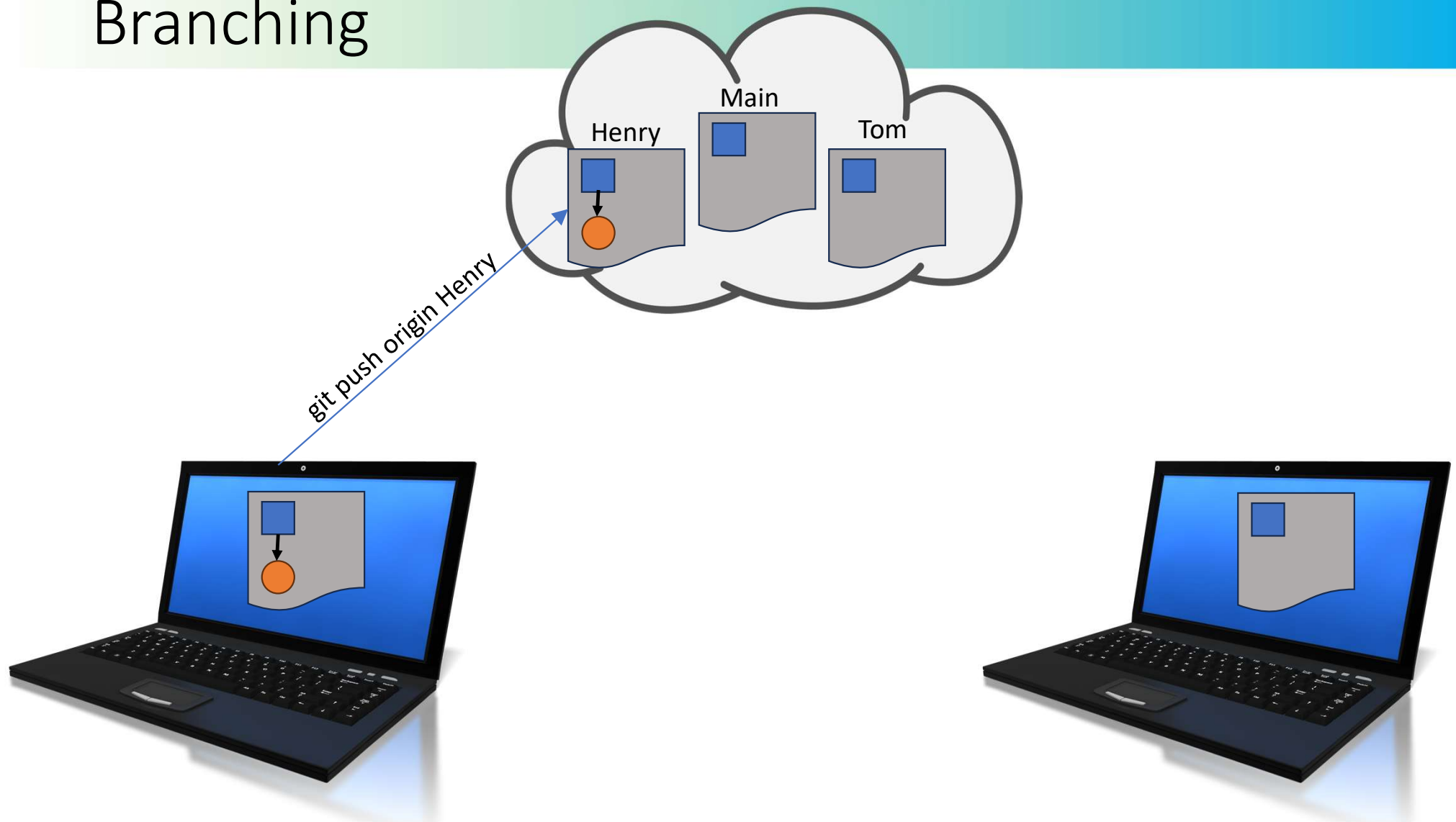


git checkout Henry

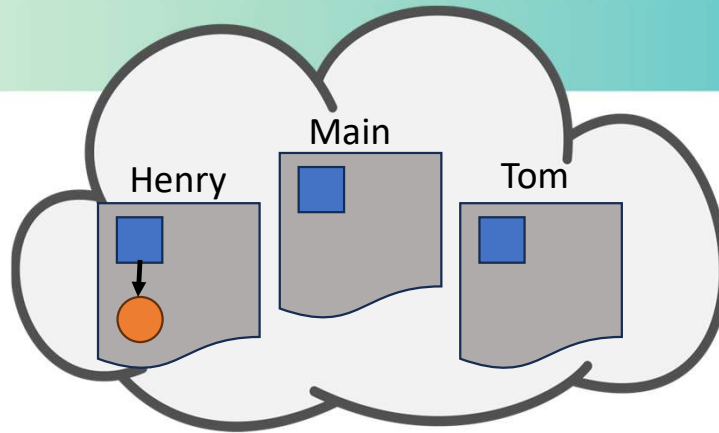


git checkout Tom

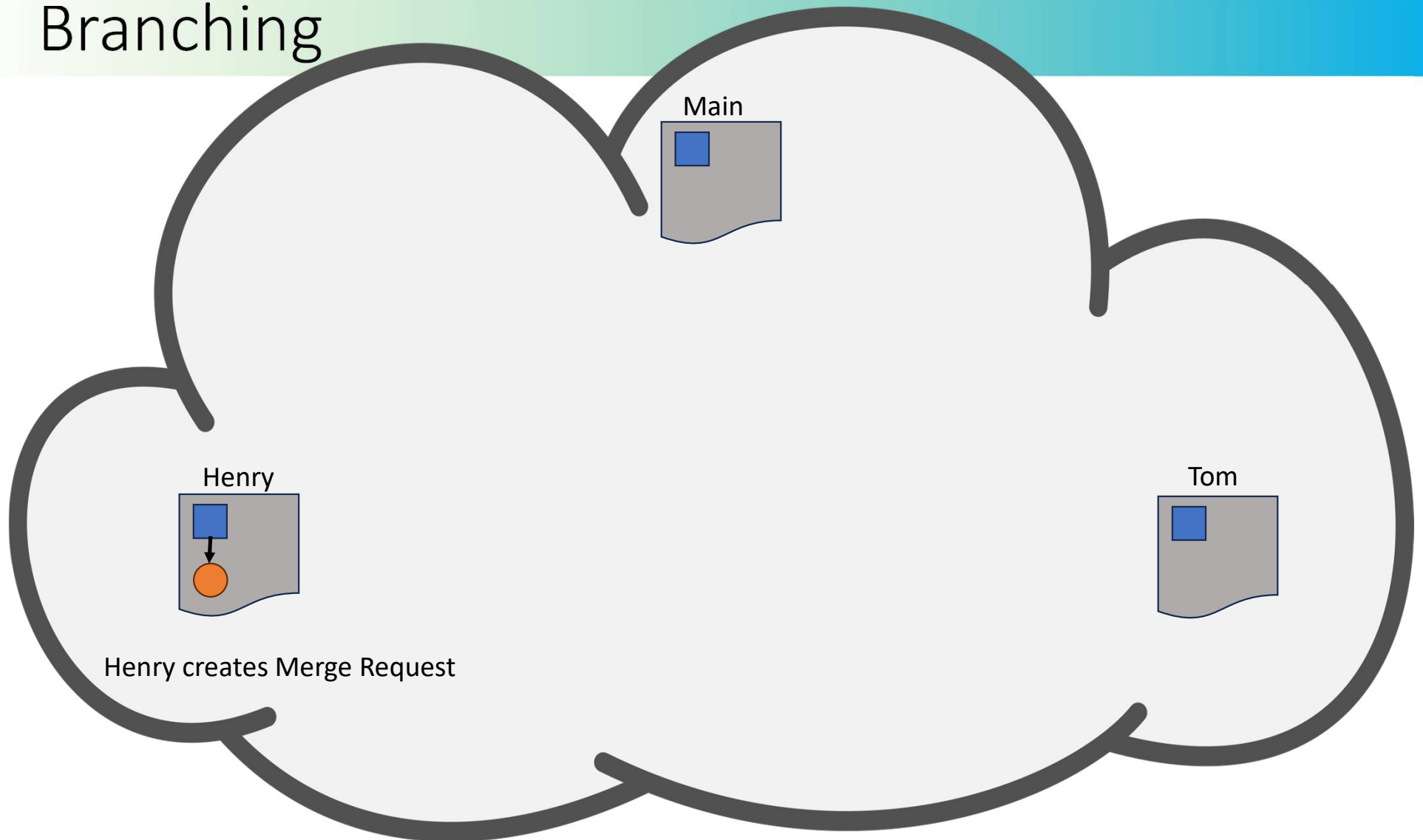
Branching



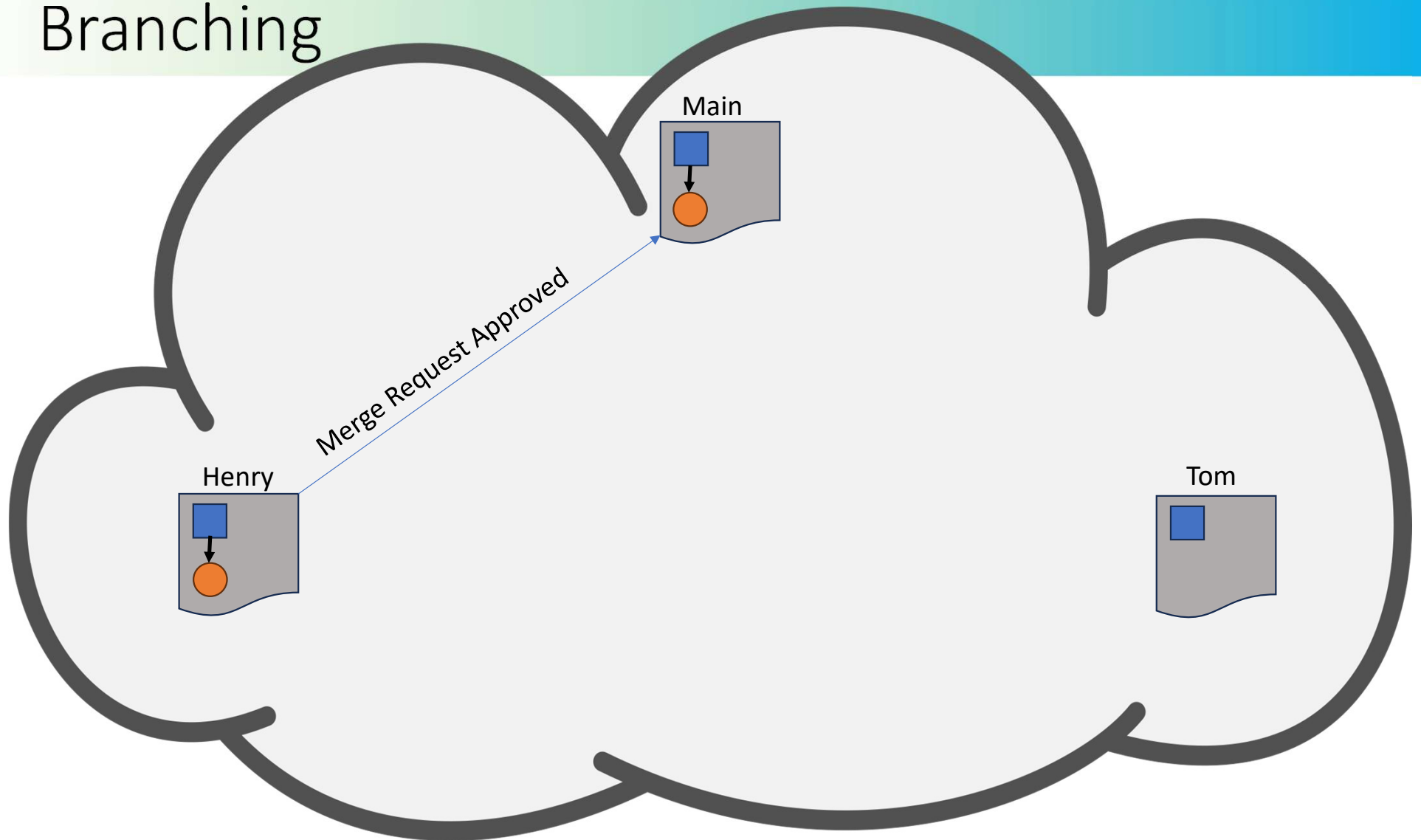
Branching



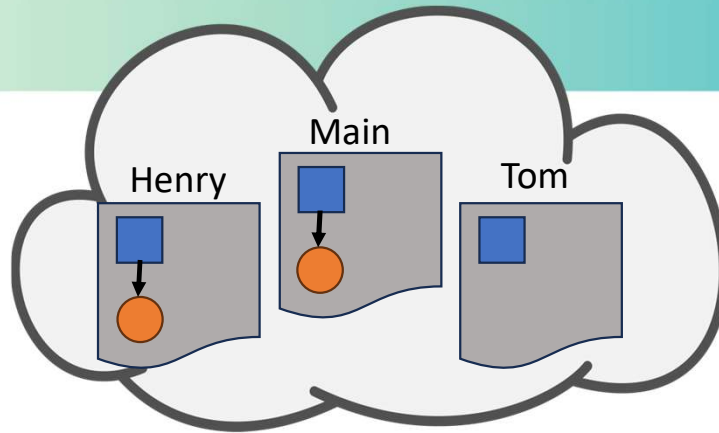
Branching



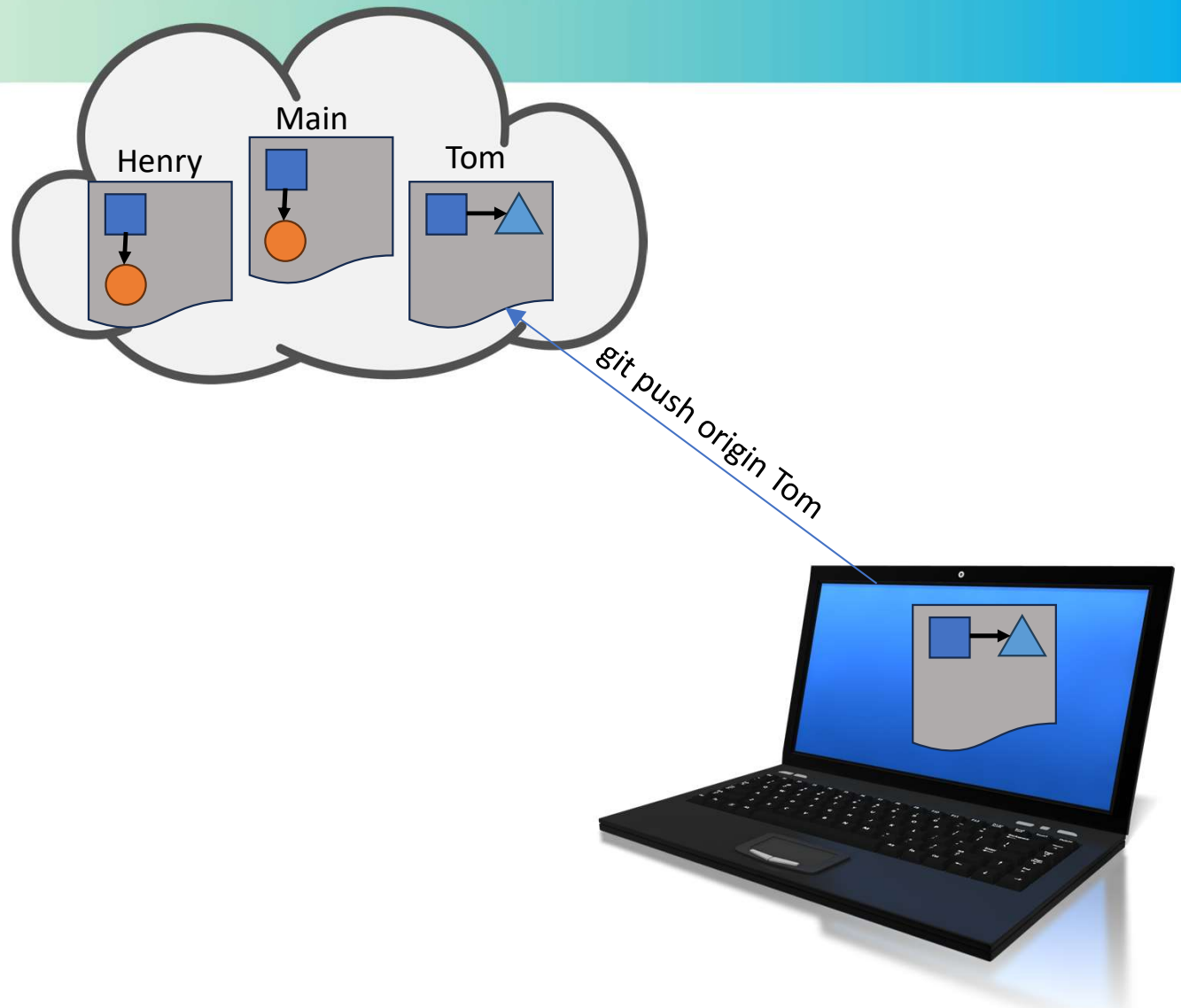
Branching



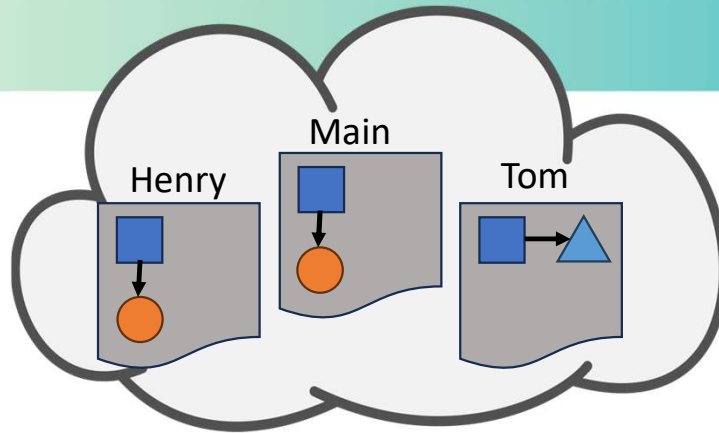
Branching



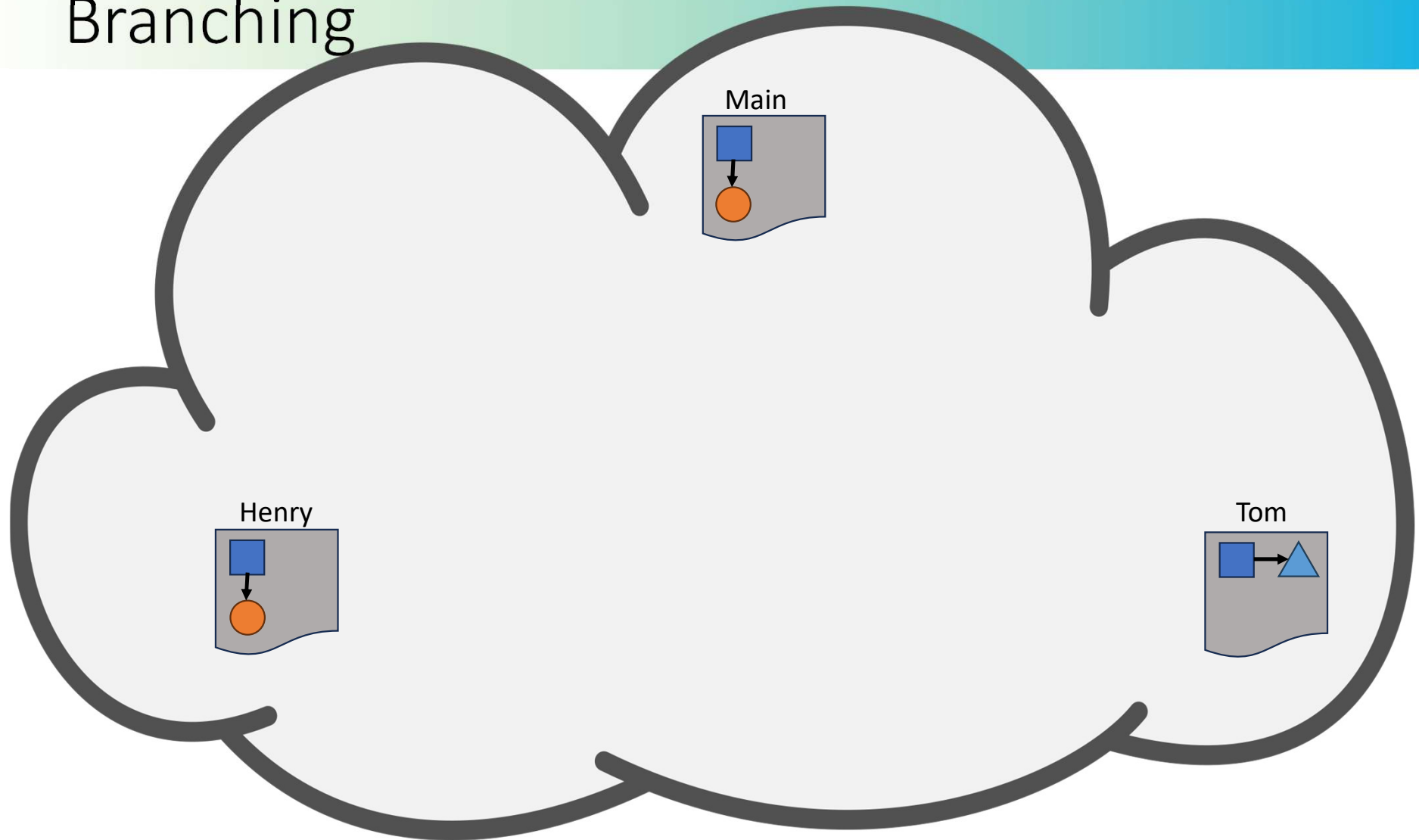
Branching



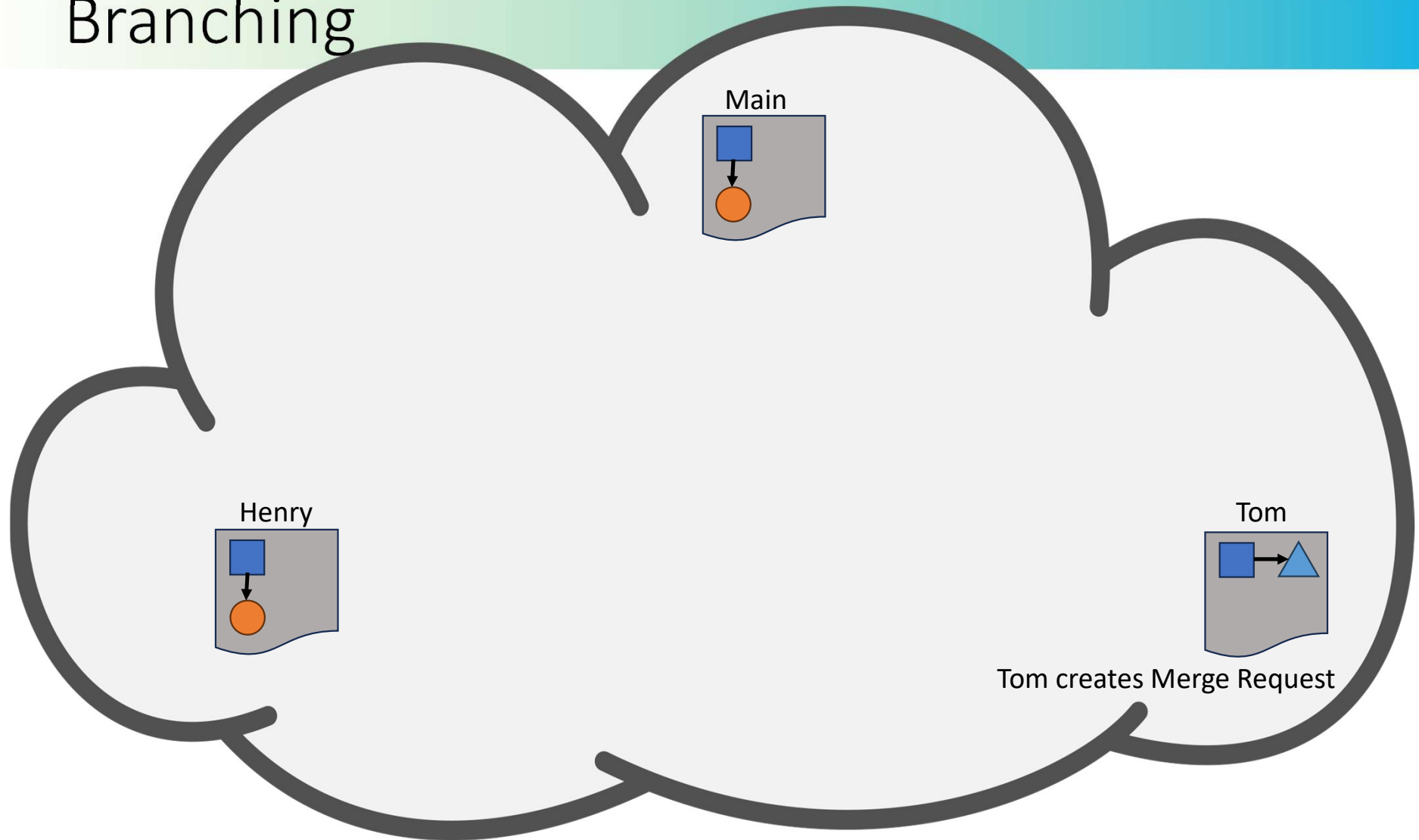
Branching



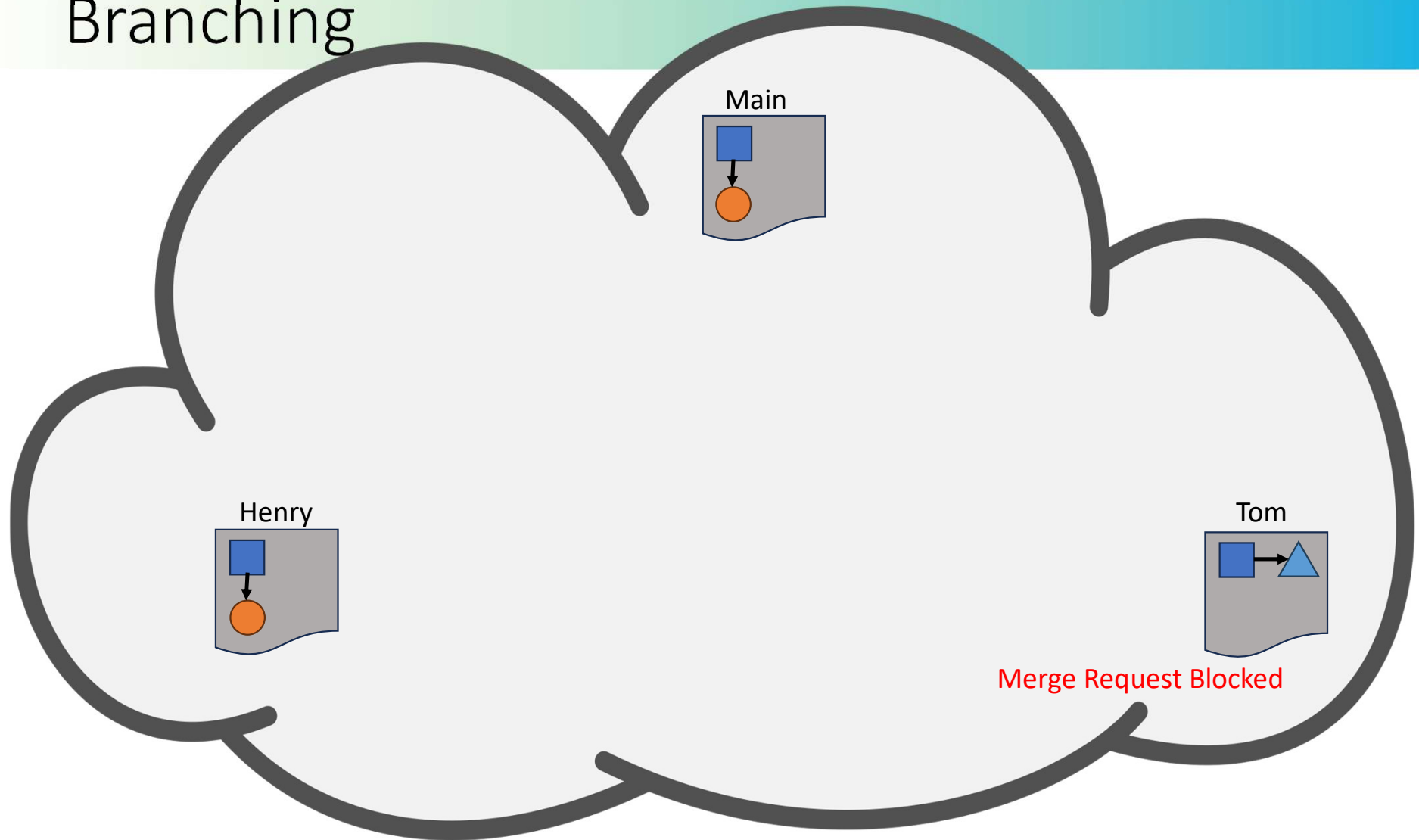
Branching



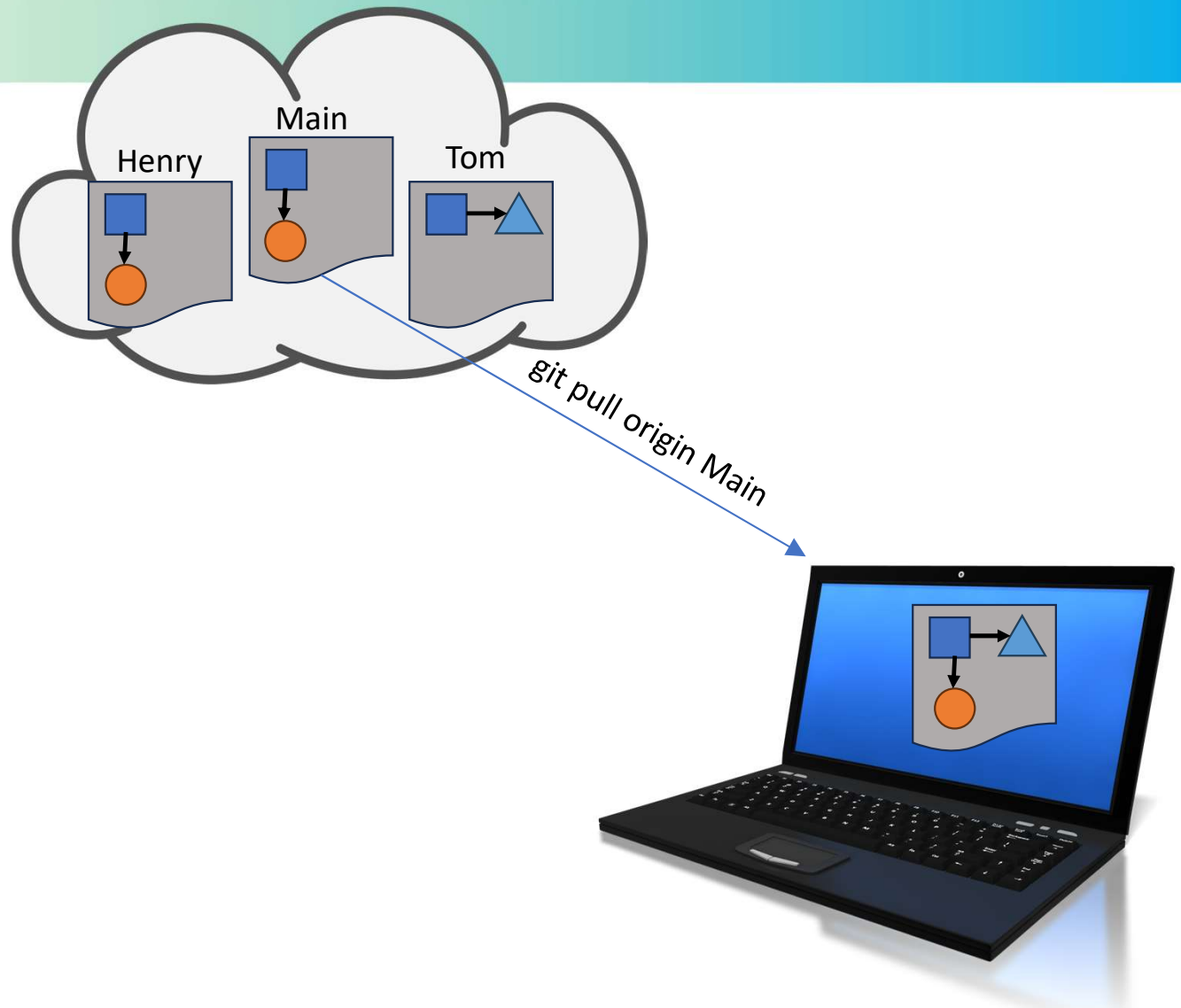
Branching



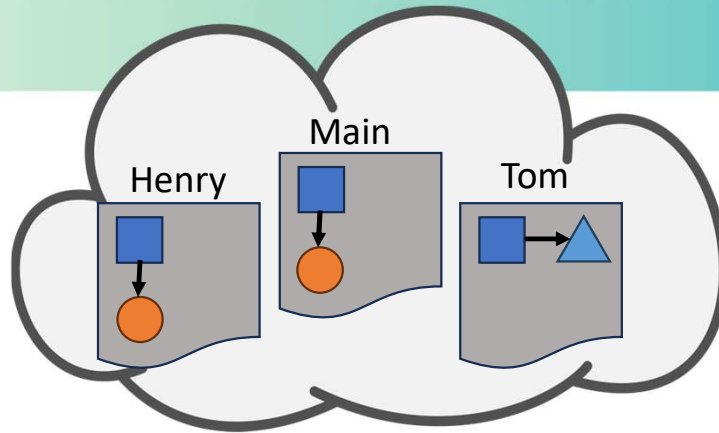
Branching



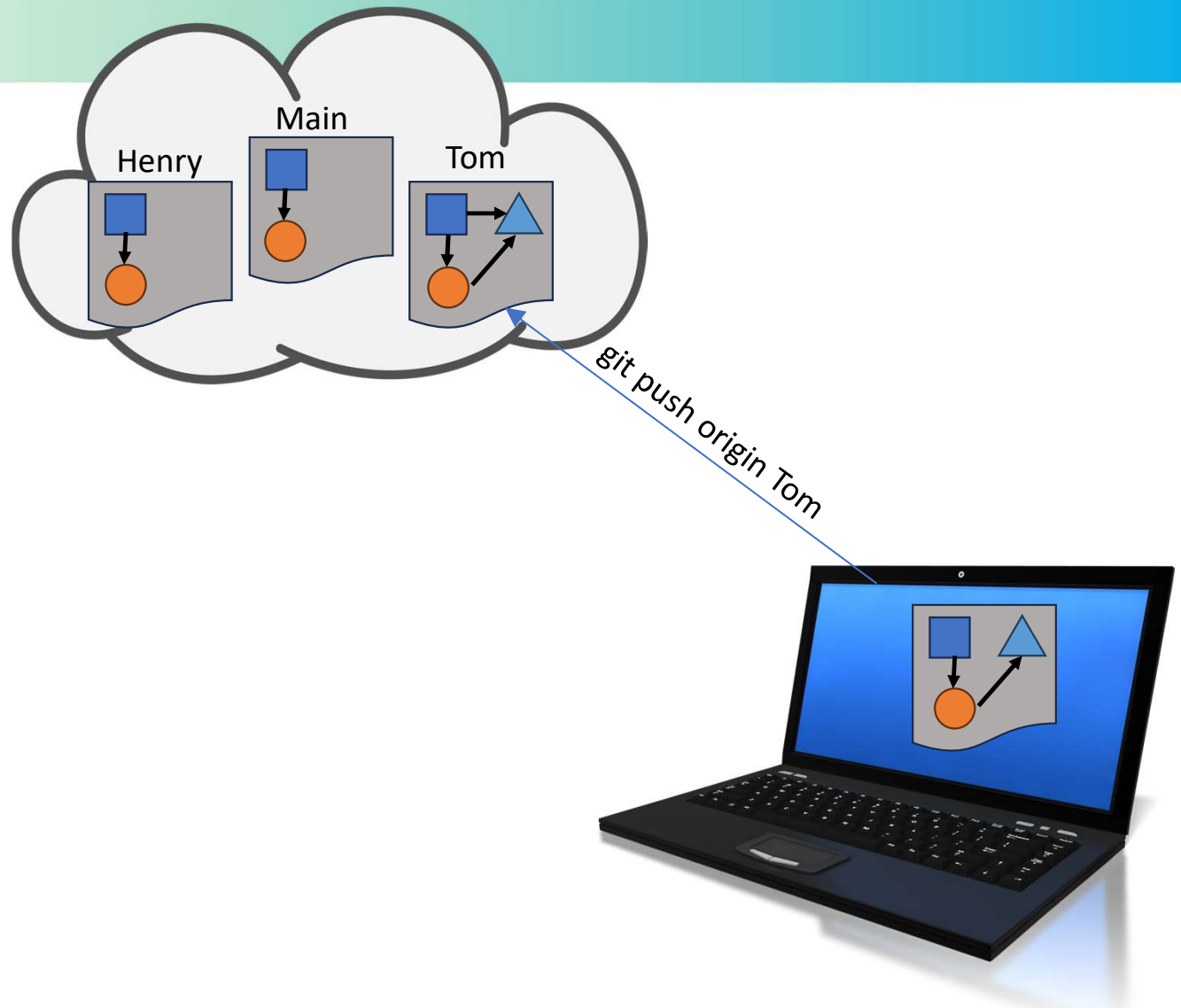
Branching



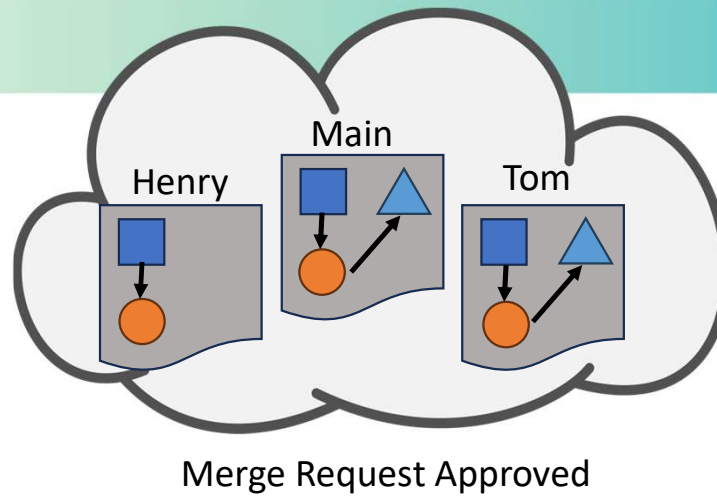
Branching



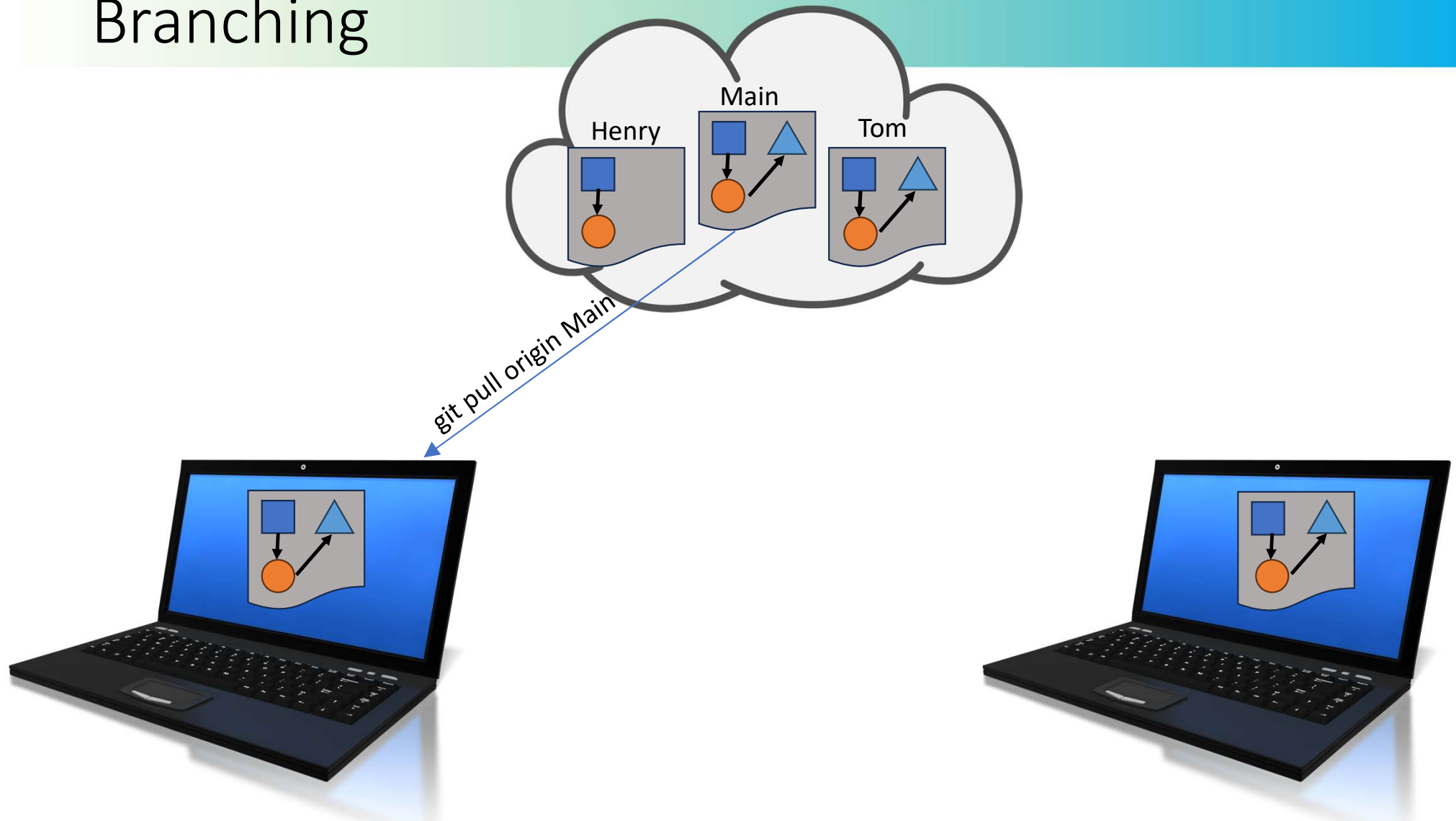
Branching



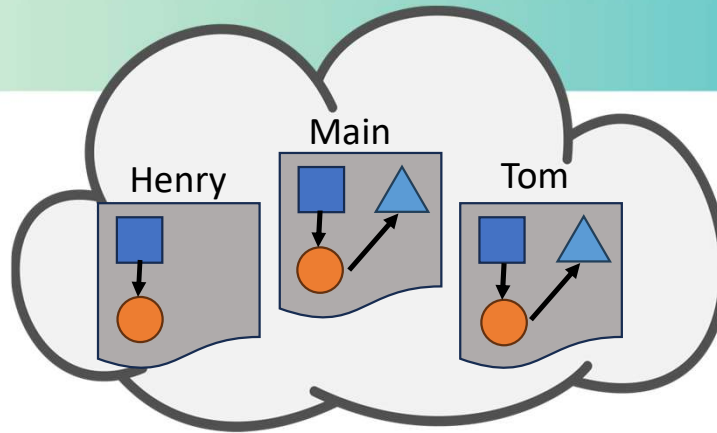
Branching



Branching



Branching



BRANCHING

ENGLISH, PLEASE



Steps for Git with Branches

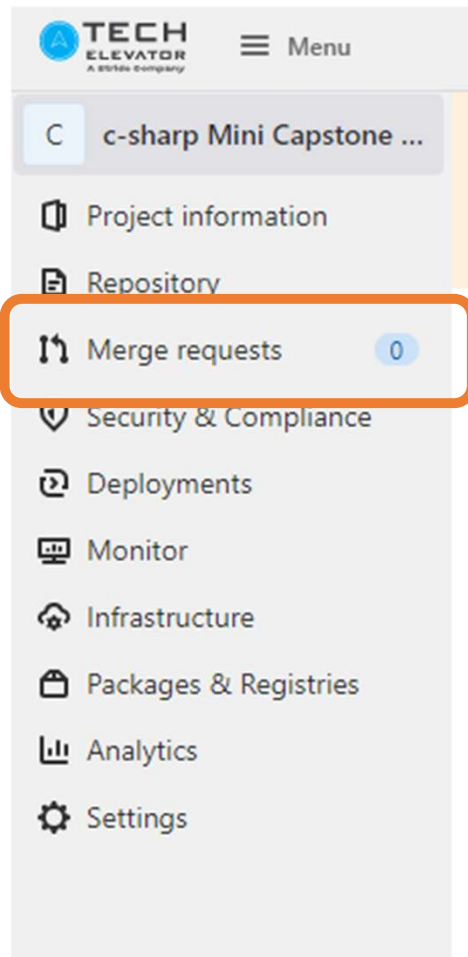
- **ALWAYS WORK IN YOUR BRANCH**

1. `git checkout TomAnderson`
2. Do your code.

- Usual git steps to commit code

1. `git status`
2. `git add -A`
3. `git commit -m "Cool code"`
4. `git pull origin TomAnderson`
5. `git push origin TomAnderson`

Create a Merge Request



Merge requests are a place to propose changes you've made to a project and discuss those changes with others

Interested parties can even contribute by pushing commits if they want to.

New merge request

Create a Merge Request

New merge request

Source branch

te-pgh-dev/mirrorsource

Compare branches and continue

Select source branch

Search branches

BillReeves

HenryEdwards

main

Target branch

te-pgh-dev/mirrorsource

main

From API

Tom Anderson authored 4 weeks ago

85ba23a7

Create a Merge Request

New merge request

From `HenryEdwards` into `main` [Change branches](#)

Title

[Remove the `Draft` prefix](#) from the title to allow this merge request to be merged when it's ready.
[Add description templates](#) to help your contributors communicate effectively!

Description

Write **Preview**

B **I** **”** **</>** **🔗** **☰** **☰** **☰** **📎** **📁** **↗**

Describe the goal of the changes and what reviewers should be aware of.

[Markdown and quick actions](#) are supported

[📎 Attach a file](#)

Assignee [Assign to me](#)

Reviewer

Milestone

Labels

Merge options ☒ Delete source branch when merge request is accepted.
☐ Squash commits when merge request is accepted. [?](#)

Create merge request

Cancel

Create a Merge Request

New merge request

From `HenryEdwards` into `main` [Change branches](#)

Title

[Remove the `Draft` prefix](#) from the title to allow this merge request to be merged when it's ready.
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Description

Write Preview

B *I* “ ” </> @ ☰ ☷ ☸ ☹ ☺ ☻ ☼ ☽ ☿

Describe the goal of the changes and what reviewers should be aware of.

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[Attach a file](#)

Assignee [Assign to me](#)

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Labels

Merge options ☐ Delete source branch when merge request is accepted.
☐ Squash commits when merge request is accepted. [?](#)

Create merge request

Cancel

Create a Merge Request

Open Created just now by **Tom Anderson** Owner

Edit Mark as draft ▼

Change to Readme

Overview 0 Commits 1 Changes 1

Request to merge HenryEdwards **into main**

Open in Web IDE Check out branch ▼

Approve

approval is optional

☐ Merge

Checking if merge request can be merged...

0 0

Oldest first Show all activity

Write Preview

B **I** **”** **</>**


Write a comment or drag your files here...

Markdown and quick actions are supported [Attach a file](#)

Comment ▼

Close merge request



Create a Merge Request

Open Created just now by  **Tom Anderson** Owner


Edit Mark as draft ▼


Change to Readme

Overview 0 Commits 1 Changes 1

 **Request to merge** HenryEdwards  **into** main

Open in Web IDE Check out branch ⌵

 Revoke approval


Merge request approved. Approved by 

✓ Merge ☐ Delete source branch

> **1 commit** and **1 merge commit** will be added to `main`. [Modify merge commit](#)

👍 0 👎 0 😊


Oldest first ▼ Show all activity ▼

 **Tom Anderson** @Toma_TE approved this merge request just now

Write Preview

B **I** **”** **</>** **🔗** **☰** **☰** **☰** **📎** **📁** **🔗**

Write a comment or drag your files here...

Markdown and quick actions are supported  [Attach a file](#)

Comment ▼

Close merge request

Merge Requests – TomAnderson

- After pushing your WORKING code to your branch
- Click **Merge Requests** in GitLab
- Click **New merge request**
- Choose **your branch** from the left and **main** from the right
- Click **Compare branches and continue** at the bottom
- Uncheck **Delete source branch when merge request is accepted**
- Click **Create merge request**
- Notify your team/partner that there's a merge request

Verifying a Merge Request – Henry Edwards

- First, commit/save your current work in your branch (don't want to lose anything)
- Change to the branch for the pull request
 - `git checkout TomAnderson`
 - `git pull origin TomAnderson`
- **VALIDATE THAT THE CODE WORKS AND DOES WHAT IT SHOULD**
- Click **Approve** in GitLab for the merge request (if above is true)
- Return to your branch
 - `git checkout HenryEdwards`
- Continue working on your code.

Finishing Merge Request

- Tom Anderson
 - Click **Merge** in GitLab Merge Request
 - Make sure **Delete source branch** is **unchecked**
 - Notify your team/partner the merge request has been merged
- Team/Partner
 - Verify you are in your branch
 - `git checkout HenryEdwards`
 - `git pull origin main`
- All done!

If creating your Merge Request fails

- If there is a merge conflict between your branch and main
 - Pull main into your branch
 - `git checkout TomAnderson`
 - `git pull origin main`
 - Fix the merge conflicts.
 - `code .`
 - `git status`
 - `git add -A`
 - `git commit -m "Cool code"`
 - `git pull origin TomAnderson`
 - `git push origin TomAnderson`

Questions?



Module 2 Capstone

tebucks



Capstone Module 2

Team 0: Eric Feen & Sarah Borgelt

Team 1: Carson Scott & Jaden Hylton

Team 2: Amy Craley & Chris Bussey

Team 3: Evan Reed & Logan Ramos

Team 4: Maxwell Logue & Chad Ivery Jr

Team 5: Anthony Chen & Jenna Mastrodonato

