



MONAN

Criando Forks do repositório

Forks - Clones - Pull Request

Workshop Interno da DIMNT para início dos trabalhos com o
MONAN-ATM/SFC de 2 a 3 de outubro de 2023.

Grupo de Computação Científica - GCC
Divisão de Modelagem Numérica do Sistema Terrestre - DIMNT
Coordenação-Geral de Ciências da Terra - CGCT



MONAN
Model for Ocean-IaNd-Atmosphere prediction

0 Git e GitHub: o que é?

Git?

- É um sistema de controle de versão distribuído (DVCS).
- Monitora e gerencia o histórico de alterações.

GitHub?

- É um portal de serviço baseado na nuvem que integra o sistema de controle de versão Git e outras ferramentas.
- Permite a colaboração de desenvolvedores através de projetos compartilhados.

Repositórios

- Coleção de arquivos e pastas associados a um projeto.
- Unidades auto-confinadas, qualquer pessoa que tiver uma cópia do repositório pode acessar toda a base de código e seu histórico.

0 Git e GitHub: uso em centros de referência

The image displays a collage of GitHub profiles for several prominent meteorological and atmospheric research centers. Each profile includes the organization's logo, name, a brief description, and key statistics like follower count and location. The profiles are arranged in a grid-like fashion, overlapping slightly.

- ecmwf** (European Centre for Medium-Range Weather Forecasts): Providing software to work with meteorological data and services. 233 followers, located in Shinfield Park, Reading, United Kingdom. Website: <http://www.ecmwf.int>. Email: Software.Support@ecmwf.int.
- NCAR** (National Center for Atmospheric Research): NCAR is sponsored by the National Science Foundation and managed by the University Corporation for Atmospheric Research. 313 followers, located in Boulder, CO. Website: <http://ncar.ucar.edu>.
- NOAA - Geophysical Fluid Dynamics Laboratory**: U.S. Department of Commerce, National Oceanic and Atmospheric Administration. 65 followers, located in Princeton, New Jersey. Website: <http://www.gfdl.noaa.gov>. Email: gfdl.climate.model.info@noaa.gov (Verified).
- NOAA** (National Oceanic and Atmospheric Administration): The Official NOAA Github. NOAA provides science, service and stewardship to protect life and property, and conserve/protect the Earth's natural resources. 124 followers. Website: <http://www.noaa.gov/>.
- MetOffice** (Met Office): The Met Office is the UK's National Weather Service. 147 followers, located in Exeter, UK. Website: <http://www.metoffice.gov.uk>.
- NCMRWF** (National Centre for Medium Range Forecasting): Observation Pre-processing and Weather Forecast Post-processing NCMRWF and collaborated research and development organisation. 24 followers, located in MoES, India. Website: <http://www.ncmrwf.gov.in>.
- NOAA-EMC** (NOAA Environmental Modeling Center (EMC)): We develop numerical forecast systems and enhance numerical forecasts through numerical computational technology and data assimilation techniques. 91 followers. Website: <http://www.emc.ncep.noaa.gov/>. Email: kate.friedman@noaa.gov.

0 Git e GitHub: conceitos iniciais

Commits

- Nome dado às mudanças de estado que são salvas no Git.
- É um “instantâneo” no tempo do histórico de arquivos.
- Os commits podem ser organizados em branches.

Branches

- São as linhas de desenvolvimento.
- Um ponteiro móvel que leva um commit.
- O Branch sempre aponta para um commit.

0 Git e GitHub: conceitos iniciais

Fork

- É uma cópia de um projeto na conta pessoal de um desenvolvedor.
- Cada desenvolvedor tem controle total de seu fork e é livre para implementar uma correção ou novo recurso.
- O trabalho concluído no fork é mantido separado ou é retornado para o projeto original por meio de um *pull request*.

Pull Request

- Uma solicitação que gera uma notificação sinalizando a conclusão do desenvolvimento de uma *feature* qualquer sugerindo um merge.
- Permite ver as diferenças entre o projeto original e o seu *branch* de recurso.

0 Git e GitHub: conceitos iniciais

Merge

- Mesclagem de branches; Gera um novo commit.

Clone

- Gera uma cópia local de um projeto já existente.

Pull

- Atualiza a linha de desenvolvimento local com atualizações do equivalente remoto.

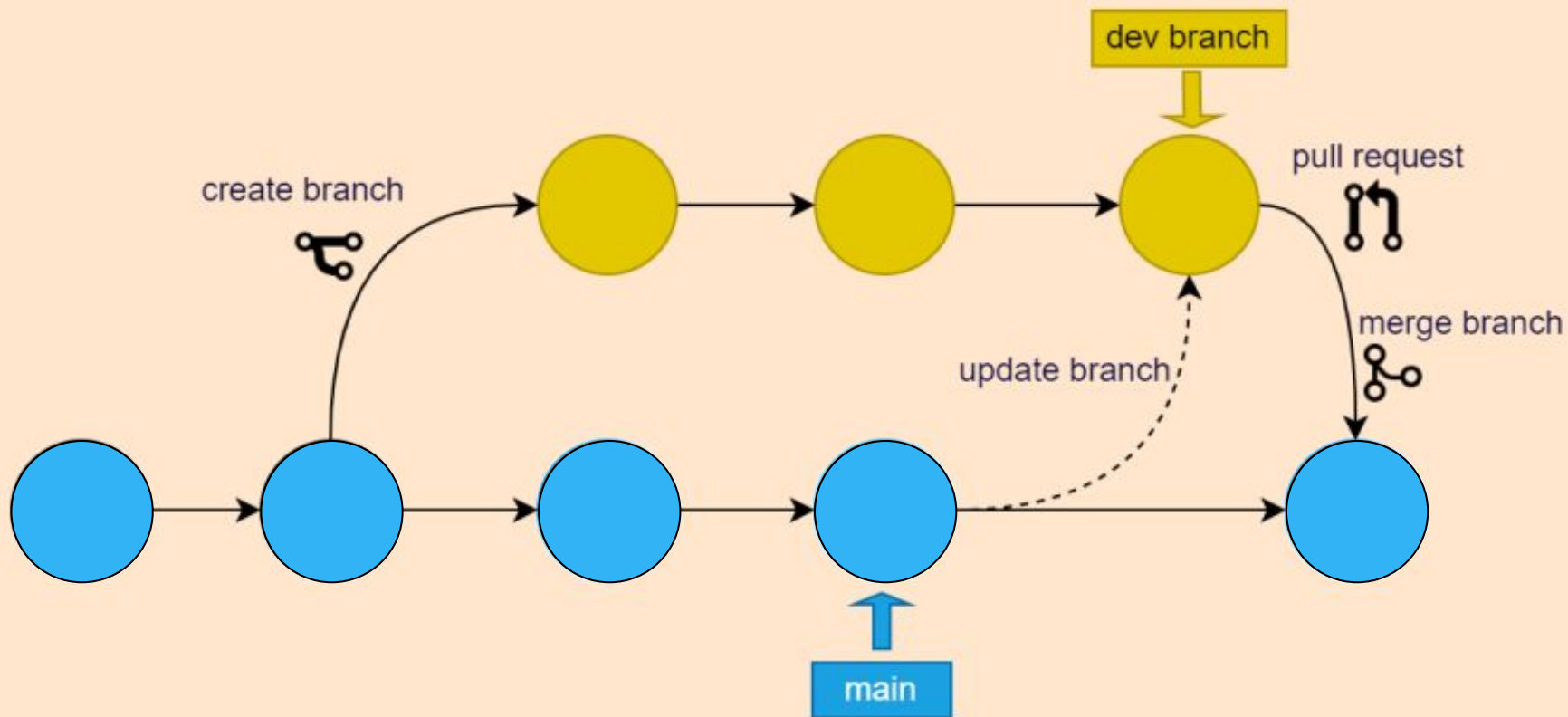
Push

- Atualiza o repositório remoto com todos os commits feitos localmente em um branch.

Checkout

- Faz a troca entre branches ou as cria e também restaura arquivos da árvore de trabalho.

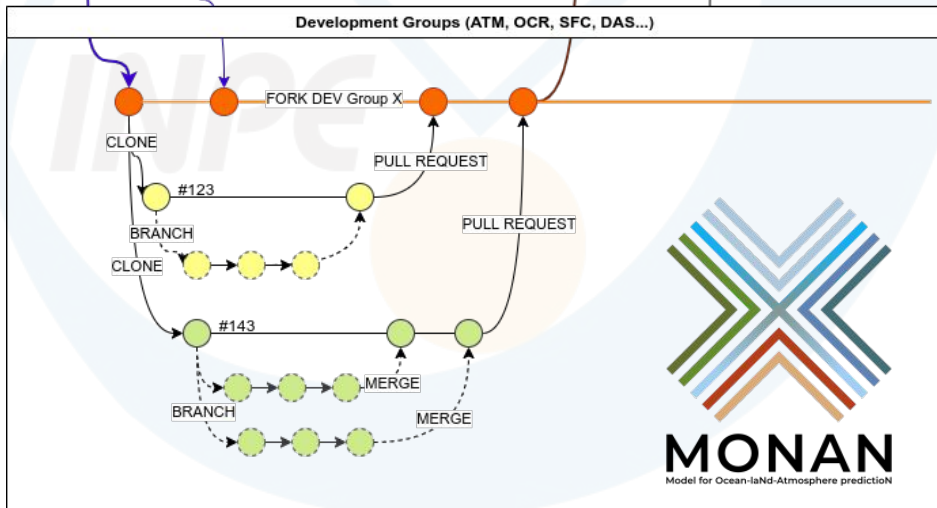
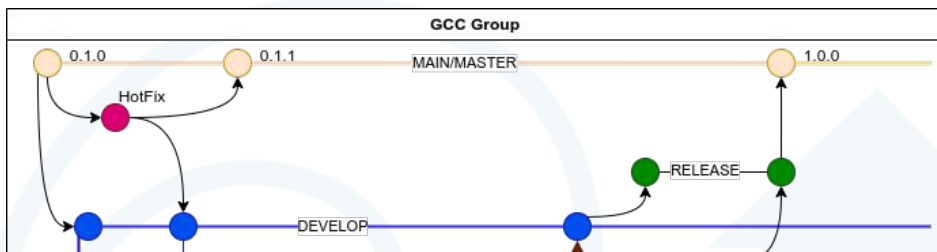
0 Git e GitHub: conceitos iniciais



1

Evitando quebras e conflitos

Repositório do MONAN - Git flow



- O versionamento usa gitflow, com duas linhas de controle:
 - **main** (ou master) [●]
 - **develop** [●]
- Os grupos devem fazer uma bifurcação (**fork**) do **develop** [●] para seu próprio desenvolvimento.
- De cada bifurcação criam-se **clones** [●●] conforme a necessidade do desenvolvimento.
- Cada clone pode ter um ou mais **branches** [●●] para atender a suas tarefas específicas.
- O grupo GCC cuida do gerenciamento dos pedidos de inserção das versões [↗].
- Bugs do main geram **Hotfix** (●) para manutenção. Releases (●) para testes do GCC (qualidade e performance) e do GAM (funcionalidade) são geradas para aprovação ou não.

2 Acessando o repositório do MONAN



Endereço

<https://github.com/monanadmin/MONAN-Model>

Modelo Básico MPAS-v8.0.1

```
MPAS-Model
├── src
│   ├── driver -- Main driver for MPAS in stand-alone mode (Shared)
│   ├── external -- External software for MPAS (Shared)
│   ├── framework -- MPAS Framework (Includes DDT Descriptions, and shared routines. Shared)
│   ├── operators -- MPAS Operators (Includes Operators for MPAS meshes. Shared)
│   └── tools -- Empty directory for include files that Registry generates (Shared)
│       ├── registry -- Code for building Registry.xml parser (Shared)
│       ├── input_gen -- Code for generating streams and namelist files (Shared)
│       └── core_* -- Individual model cores.
├── inc -- Empty directory for include files that Registry generates
├── testing_and_setup -- Tools for setting up configurations and test cases (Shared)
└── default_inputs -- Copies of default stream and namelists files (Shared)
```



MONAN
Model for Ocean-IaNd-Atmosphere prediction

3 Página inicial do MONAN - Repositório


MONAN-Model Public Edit Pins Unwatch 4 Fork 1 Star 0

main 1 branch 0 tags Go to file Add file Code

deniseiras removing file delete me 28290af last month 12 commits

src	removing file delete me	last month
.gitignore	Initial commit	last month
.gitmodules	adding .gitmodules	last month
README.md	Update README.md	last month
licenca-gpl-3.0.pt-br.md	licenses included from monanadmin/monan repository	last month
license-gpl-3.0.eng.md	licenses included from monanadmin/monan repository	last month

README.md



MONAN

Model for Ocean-IaNd-Atmosphere predictionN

MONAN is a community model of the Unified Earth System that has as its main objective, as its name already refers, to be a numerical model that covers all scales, geographical and temporal, of the entire Earth system and its implications. It is "community" because it aggregates efforts from several Brazilian national institutions such as universities, research centers, operational centers and various authorities in the area of meteorology, environment, oceans and others. It also can receive support from international centers and universities as well as support from the private sector.

About

MONAN - Model for Ocean-IaNd-Atmosphere PredictionN

Readme

Activity

0 stars

4 watching

1 fork

Report repository

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

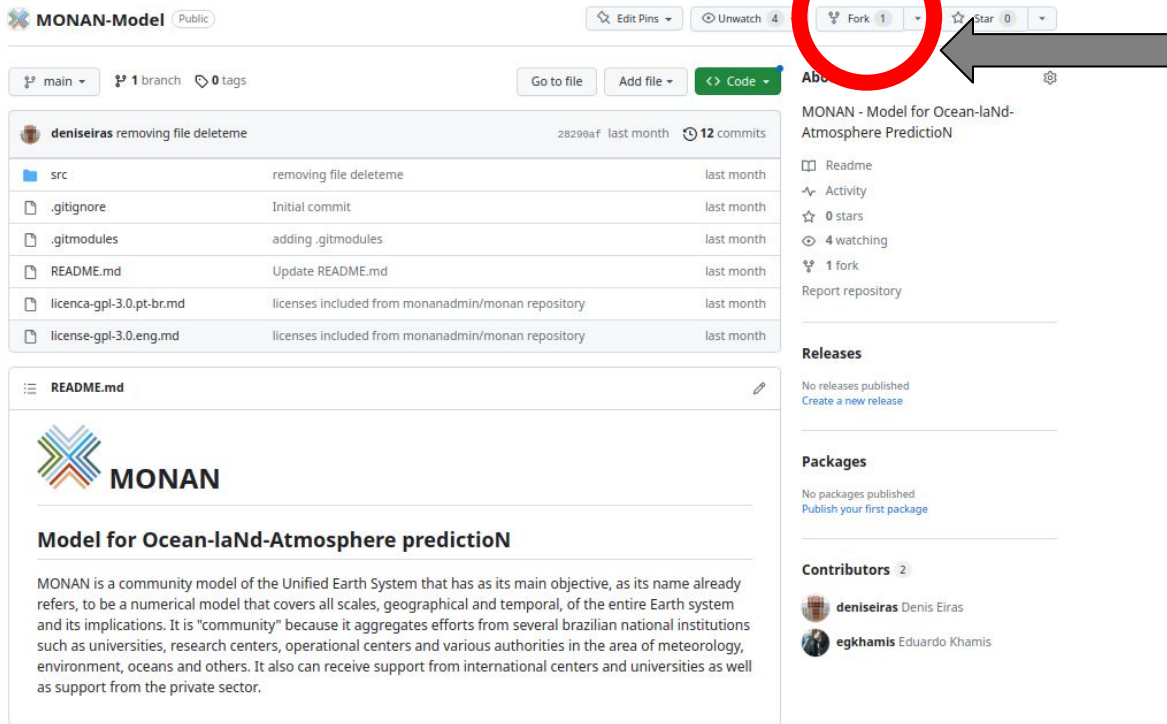
Contributors 2

 **deniseiras** Denis Eiras

 **egkhamis** Eduardo Khamis



4 Fazendo Fork do Repositório - Passo 1



MONAN-Model (Public)

Edit Pins Unwatch 4 Fork 1 Star 0


main 1 branch 0 tags

Go to file Add file Code

deniseiras removing file delete me 28290af last month 12 commits

- src removing file delete me last month
- .gitignore Initial commit last month
- .gitmodules adding .gitmodules last month
- README.md Update README.md last month
- licenca-gpl-3.0.pt-br.md licenses included from monanadmin/monan repository last month
- license-gpl-3.0.eng.md licenses included from monanadmin/monan repository last month

README.md



MONAN

Model for Ocean-IaNd-Atmosphere predictionN

MONAN is a community model of the Unified Earth System that has as its main objective, as its name already refers, to be a numerical model that covers all scales, geographical and temporal, of the entire Earth system and its implications. It is "community" because it aggregates efforts from several Brazilian national institutions such as universities, research centers, operational centers and various authorities in the area of meteorology, environment, oceans and others. It also can receive support from international centers and universities as well as support from the private sector.

Readme Activity 0 stars 4 watching 1 fork Report repository

Releases No releases published Create a new release

Packages No packages published Publish your first package

Contributors 2

- deniseiras Denis Eiras
- egkhamis Eduardo Khamis

Clicar na chave Fork



5

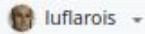
Fazendo Fork do Repositório - Passo 2

Create a new fork

A fork is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Required fields are marked with an asterisk (*).

Owner *



MONAN-Model_lufia

MONAN-Model_lufia is available.

By default, forks are named the same as their upstream repository. You can customize the name to distinguish it further.

Description (optional)

MONAN - Model for Ocean-IaNd-Atmosphere Prediction

Copy the main branch only

Contribute back to this repository by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

Create fork

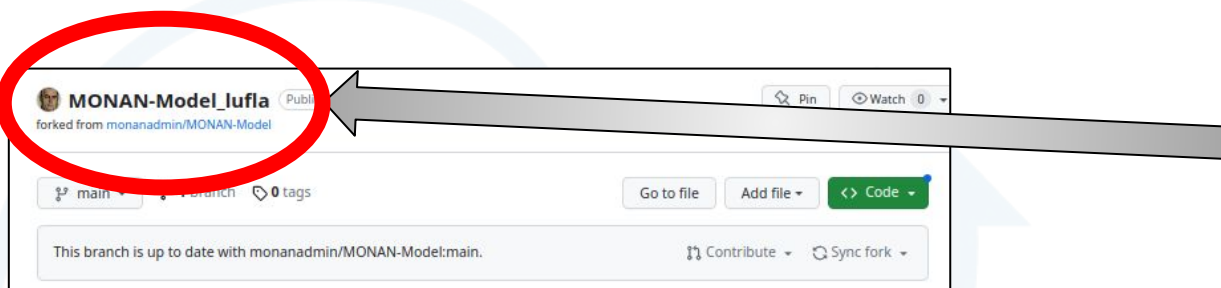
Aponte para quem será o proprietário

O nome do novo repositório pode (e deve) ser mudado - Por exemplo:

MONAN-model_lufia

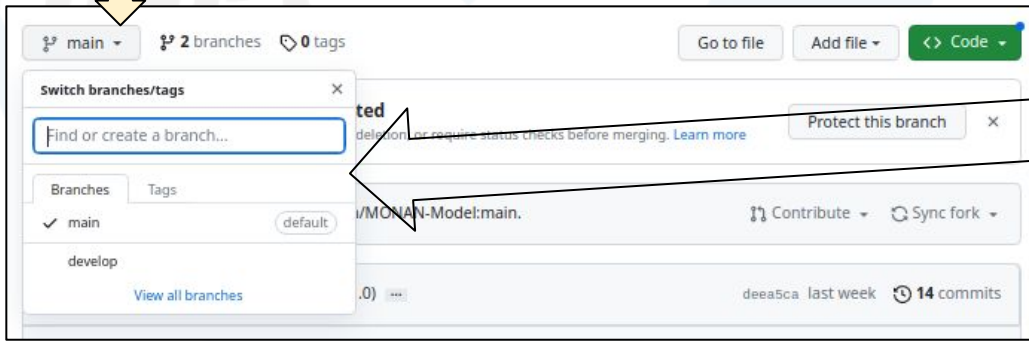
Desmarque a opção **main branch only** !

6 Verificando Fork do Repositório



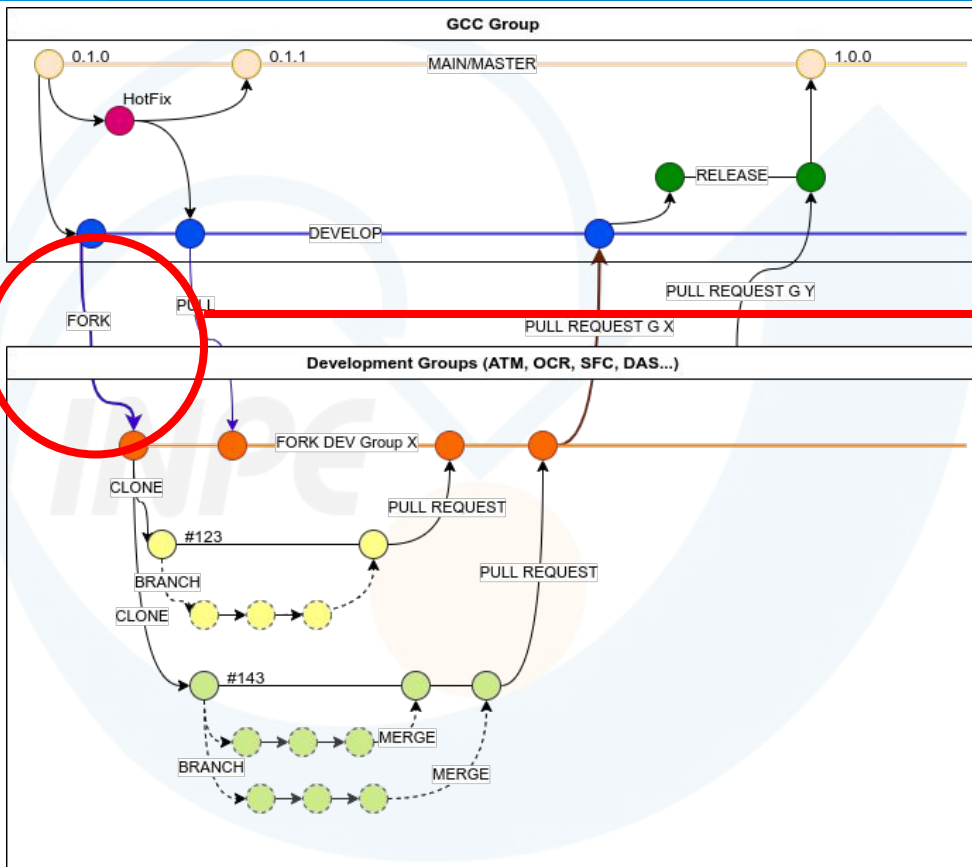
Veja que um novo fork (from monanadmin) foi criado para o proprietário

Clique



Observe que além do branch main (master) existe o branch de desenvolvimento “develop”
Obedece o git flow usado no padrão de versionamento!

Workflow



Fork Criado!

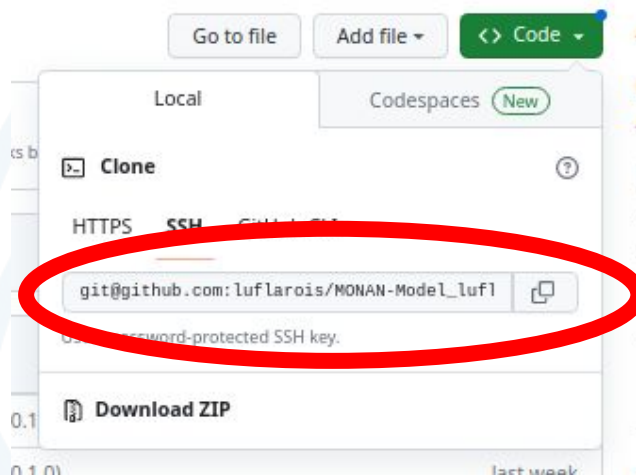
7 Fazendo um clone do Fork criado

The screenshot shows a GitHub repository page for 'MONAN-Model_lufla', which is a fork of 'monanadmin/MONAN-Model'. The repository is public and has 2 branches and 0 tags. A red circle highlights the 'Code' button, which is used to clone the repository. Below the repository information, there is a message stating 'Your main branch isn't protected' and a 'Protect this branch' button. The repository is up to date with the upstream repository. The commit history shows the initial version of MONAN (0.1.0) by 'lufarais' last week, with 14 commits. The file list includes folders 'doc', 'src', and 'test', and files '.gitignore', 'INSTALL', 'LICENSE', 'Makefile', 'README.md', 'azure-pipelines.yml', 'licenca-gpl-3.0.pt-br.md', and 'license-gpl-3.0.eng.md'.

File	Commit	Author	Date
doc	Initial version of MONAN (0.1.0)	lufarais	last week
src	Initial version of MONAN (0.1.0)	lufarais	last week
test	Initial version of MONAN (0.1.0)	lufarais	last week
.gitignore	Initial commit	lufarais	last month
INSTALL	Initial version of MONAN (0.1.0)	lufarais	last week
LICENSE	Initial version of MONAN (0.1.0)	lufarais	last week
Makefile	Initial version of MONAN (0.1.0)	lufarais	last week
README.md	Initial version of MONAN (0.1.0)	lufarais	last week
azure-pipelines.yml	Initial version of MONAN (0.1.0)	lufarais	last week
licenca-gpl-3.0.pt-br.md	licenses included from monanadmin/monan repository	lufarais	last month
license-gpl-3.0.eng.md	licenses included from monanadmin/monan repository	lufarais	last month

clique na chave "Code"

8 Fazendo um clone do Fork criado



Copie o endereço do git
Esse endereço será usado
para criar seu clone de trabalho!

9 Fazendo um clone do Fork criado

```
fish /home/lufla/monan_development

lufla@petara in ~/monan_development took 1ms
λ git clone git@github.com:luflarois/MONAN-Model_lufla.git (base)
Cloning into 'MONAN-Model_lufla'...
remote: Enumerating objects: 1688, done.
remote: Counting objects: 100% (1688/1688), done.
remote: Compressing objects: 100% (985/985), done.
remote: Total 1688 (delta 656), reused 1671 (delta 650), pack-reused 0
Receiving objects: 100% (1688/1688), 3.57 MiB | 4.42 MiB/s, done.
Resolving deltas: 100% (656/656), done.

lufla@petara in ~/monan_development took 2s
λ █ (base)
```

Abra um terminal e proceda com o comando de clonagem (use sua área de desenvolvimento)

Observe que os arquivos de origem foram copiados

10 Fazendo um clone do Fork criado

Indo para o branch de desenvolvimento

```
fish /home/lufla/monan_development/MONAN-Model_lufla
[lufla@petara in ~/monan_development
└─ λ cd MONAN-Model_lufla/ (base)

[lufla@petara in repo: MONAN-Model_lufla on ʘ main
└─ λ git branch -a (base)
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/develop ←
  remotes/origin/main

[lufla@petara in repo: MONAN-Model_lufla on ʘ main took 1ms
└─ λ git checkout develop (base)
Branch 'develop' set up to track remote branch 'develop' from 'origin'.
Switched to a new branch 'develop'

[lufla@petara in repo: MONAN-Model_lufla on ʘ develop took 63ms
└─ _ (base)
```

vá para o diretório com o clone

Observe os branches (“-a” é fundamental)

Mude para o branch de desenvolvimento

11 Criando um branch de trabalho

```
fish /home/lufla/monan_development/MONAN-Model_lufla
[lufla@petara] in repo: MONAN-Model_lufla on & develop took 1ms
└─┬─ git branch (base)
  * develop
  main

[lufla@petara] in repo: MONAN-Model_lufla on & develop took 2ms
└─┬─ git checkout -b MONAN_Issue_256 (base)
  Switched to a new branch 'MONAN_Issue_256'

[lufla@petara] in repo: MONAN-Model_lufla on & MONAN_Issue_256 took 1ms
└─┬─ git branch (base)
  * MONAN_Issue_256 ←
  develop
  main

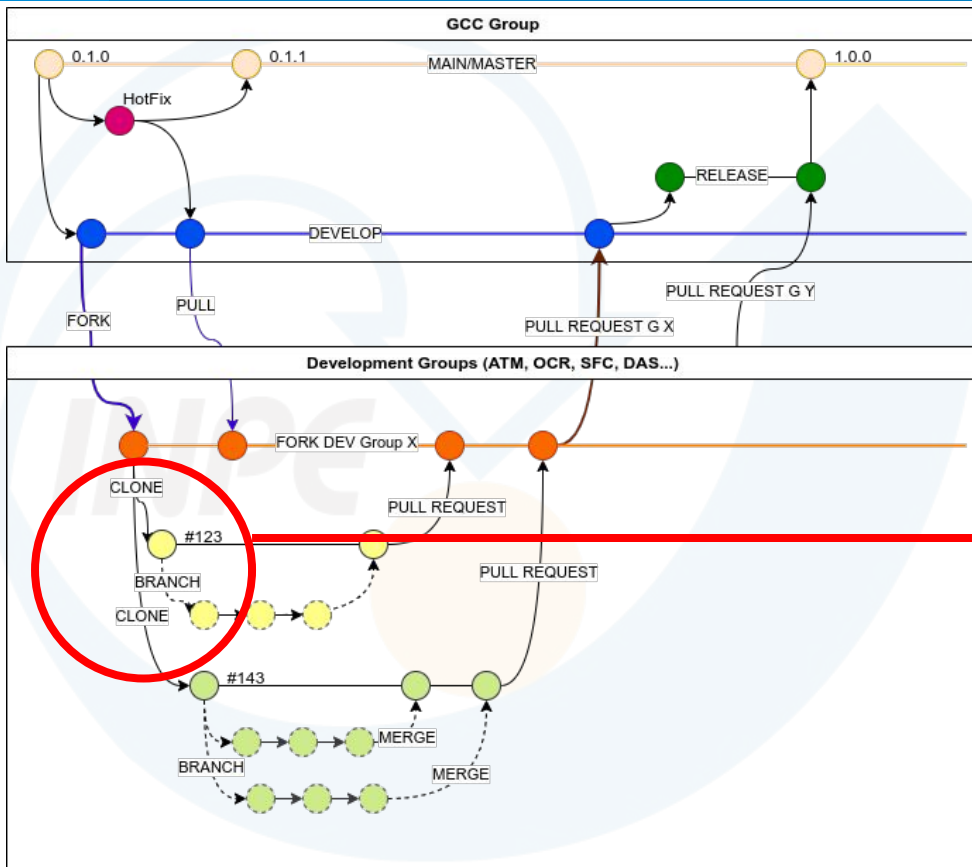
[lufla@petara] in repo: MONAN-Model_lufla on & MONAN_Issue_256 took 2ms
└─┬─ [ ] (base)
```

Criando o branch
MONAN_Model_issue_256

Verificando os branches
existentes

Nesse caso o branch parte
de “develop”

Workflow



**Clone realizado e
Branch criada!**

12 Alterando e “comitando” as alterações

```
fish/home/lufla/monan_development/MONAN-Model_lufla
.rw-rw-r-- 4.0k lufla 6 Sep 08:49 README.md

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 [?] took 3ms
[base] λ touch Monan-Model.toml

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 [?]
[base] λ git status
No ramo MONAN_Issue_256
Arquivos não monitorados:
(utilize "git add <arquivo>..." para incluir o que será submetido)
  Monan-Model.toml

nada adicionado ao envio mas arquivos não registrados estão presentes (use "git add" to registrar)

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 [?] took 5ms
[base] λ git add Monan-Model.toml

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 [+] took 10ms
[base] λ git status
No ramo MONAN_Issue_256
Mudanças a serem submetidas:
(use "git restore --staged <file>..." to unstage)
  new file:   Monan-Model.toml

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 [+] took 4ms
[base] λ git commit -m 'Adding a configuration FPM file'

  This toml file will be used for FPM utils.
  ,

[MONAN_Issue_256 57a9219] Adding a configuration FPM file
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 Monan-Model.toml

[base] lufla@petara in repo: MONAN-Model_lufla on ̷ MONAN_Issue_256 took 5ms
[base] λ
```

- criando um arquivo novo
- Adicionando na lista de commit
- Verificando o status
- Comitando a atualização

Obs: Ainda não está no fork

13 Subindo alterações para o fork local

```
fish:~/home/lufla/monan_development/MONAN-Model_lufla
└─ lufla@petara in repo: MONAN-Model_lufla on ̣ MONAN_Issue_256 took 1ms
└─ git push (base)
fatal: The current branch MONAN_Issue_256 has no upstream branch.
To push the current branch and set the remote as upstream, use

    git push --set-upstream origin MONAN_Issue_256

└─ lufla@petara in repo: MONAN-Model_lufla on ̣ MONAN_Issue_256 took 8ms
└─ * git push --set-upstream origin MONAN_Issue_256 (base)
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 320 bytes | 320.00 KiB/s, done.
Total 3 (delta 1), reused 1 (delta 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'MONAN_Issue_256' on GitHub by visiting:
remote:   https://github.com/luflarois/MONAN-Model_lufla/pull/new/MONAN_Issue_256
remote:
To github.com:luflarois/MONAN-Model_lufla.git
 * [new branch]      MONAN_Issue_256 -> MONAN_Issue_256
Branch 'MONAN_Issue_256' set up to track remote branch 'MONAN_Issue_256' from 'origin'.

└─ lufla@petara in repo: MONAN-Model_lufla on ̣ MONAN_Issue_256 took 1s
└─
```

- Fazendo um “push” no repositório local

Obs: veja que no primeiro “push” de um branch o git reclama. O comando precisa ser completo com o nome do branch

- O **push** realizado **atualiza** o seu branch no repositório **fork**
- Ao abrir o repositório pelo **browser** (github) haverá uma possibilidade de um **PULL REQUEST** para o main (do monanadmin), develop (do monanadmin) ou para o fork criado.
- O grupo GCC deverá trabalhar como “**gatekeeper**” do repositório **principal**. **Nas etapas intermediárias** fica a **critério do grupo** atualizar ou não seu próprio fork via PULL REQUEST.
- PULL REQUESTs **para** o repositório **principal** só **devem** ser feitos quando o desenvolvimento for considerado **apto** pela equipe de desenvolvimento.
- O grupo GCC vai analisar os PULL REQUESTs **somente** para o repositório **principal** fazendo o trabalho de avaliação de qualidade, performance e funcionalidade básica.

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Subindo alterações para o fork local Pull Request Automáticos! Se for usar no momento

MONAN-Model_lufla Public
forked from monanadmin/MONAN-Model

MONAN_Issue_256 had recent pushes less than a minute ago [Compare & pull request](#)

main 2 branches 0 tags [Go to file](#) [Add file](#) [Code](#)

Your main branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) [Protect this branch](#)

Obs: Observe que esse push gerou um pull request automático.

Veja que há um novo branch listado

Default branch

main Updated last week by luflarois Default

Your main branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) [Dismiss](#) [Protect this branch](#)

Your branches

MONAN_Issue_256 Updated 7 minutes ago by luflarois 0 | 1 [New pull request](#)

Clicando em “branches” você pode ver a lista de branches.

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Subindo alterações para o fork

Optando por Pull Request Local

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base repository: monanadmin/MONAN-Model | base: main | head repository: lufarois/MONAN-Model_lufta | compare: MONAN_Issue_256

Choose a Base Repository

- monanadmin/MONAN-Model
- lufarois/MONAN-Model_lufta
- Monanuser/MONAN-Model-MU
- peniseiras/MONAN-Model
- joaomartins
- klclaudio/MONAN-Model-klclaudio
- kleucio/MONAN-Model-kleucio

Automatically merged.

Review

No review

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestones

No milestones

Attach files by dragging & dropping, selecting or pasting them.

Allow edits by maintainers

Create pull request

clique em “base repository” e escolha o seu fork

Na tela que abrir clique em “base” e escolha “develop”

Depois clique em “Create Pull Request”

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#).

base: main | compare: MONAN_Issue_256 | **Able to merge**. These branches can be automatically merged.

Choose a base ref

Find a branch

Branches | Tags

- main (default)
- MONAN_Issue_256
- develop

17 Subindo alterações para o fork local Mesclando as alterações na Develop

Adding a configuration FPM file #1

Open lufiarois wants to merge 1 commit into develop from MONAN_Issue_256

Conversation 0 Commits 1 Checks 0 Files changed 1

lufiarois commented 2 minutes ago
This toml file will be used for FPM utils.

Adding a configuration FPM file

Add more commits by pushing to the MONAN_Issue_256 branch on lufiarois/MONAN-Model_lufia.

Require approval from specific reviewers before merging
Branch protection rules ensure specific people approve pull requests before they're merged.

Continuous integration has not been set up
GitHub Actions and several other apps can be used to automatically catch bugs and enforce style.

This branch has no conflicts with the base branch
Merging can be performed automatically.

Merge pull request

Nesse caso não há conflitos verificados

Clique então em “Merge Pull Request”

Depois, na tela que surgir, em “Confirm Merge”

Merge pull request #1 from lufiarois/MONAN_Issue_256

Adding a configuration FPM file

Choose which email address to associate with this commit
lufiarois@gmail.com

Confirm merge

Pull request successfully merged and closed
You're all set—the MONAN_Issue_256 branch can be safely deleted.

Delete branch

Subindo alterações para o fork local

Mesclando as alterações na Develop

Adding a configuration FPM file #1

Merged iuflarois merged 1 commit into main from MONAN-Model_issue_453

Conversation 0 Commits 1 Checks 0 Files changed 1

iuflarois commented 5 minutes ago

This "toml" file will be used to indicate for FPM utils information about MONAN compilation

Adding a configuration FPM file

826784a

iuflarois merged commit 55f43ed into main now

Pull request successfully merged and closed

You're all set—the MONAN-Model_issue_453 branch can be safely deleted.

Delete branch

Write

Leave a comment

Attach files by dragging & dropping, selecting or pasting them.

Comment

Remember, contributions to this repository should follow our GitHub Community Guidelines.

O sistema mostra que o Pull Request foi mesclado e fechado

Subindo alterações para o fork local

Somente o selecionado é atualizado

MONAN-Model_lufla Public
forked from monanadmin/MONAN-Model

🔗 Pin 📺 Watch 0

develop had recent pushes 4 minutes ago Compare & pull request

🔗 MONAN_Issue_256 ← 3 branches 🏷️ 0 tags Go to file Add file Code

This branch is 1 **commit ahead** of monanadmin:main. Contribute Sync fork

luflarois Adding a configuration FPM file 57a9219 32 minutes ago 15 commits

doc	Initial version of MONAN (0.1.0)	last week
src	Initial version of MONAN (0.1.0)	last week
test	Initial version of MONAN (0.1.0)	last week
.gitignore	Initial commit	last month
INSTALL	Initial version of MONAN (0.1.0)	last week
LICENSE	Initial version of MONAN (0.1.0)	last week
Makefile	Initial version of MONAN (0.1.0)	last week
Monan-Model.toml	Adding a configuration FPM file	32 minutes ago
README.md	Initial version of MONAN (0.1.0)	last week
azure-pipelines.yml	Initial version of MONAN (0.1.0)	last week
licenca-gpl-3.0.pt-br.md	licenses included from monanadmin/monan repository	last month
license-gpl-3.0.eng.md	licenses included from monanadmin/monan repository	last month

MONAN-Model_lufla Public
forked from monanadmin/MONAN-Model

🔗 Pin 📺 Watch 0

develop had recent pushes 6 minutes ago Compare & pull request

🔗 main ← 3 branches 🏷️ 0 tags Go to file Add file Code

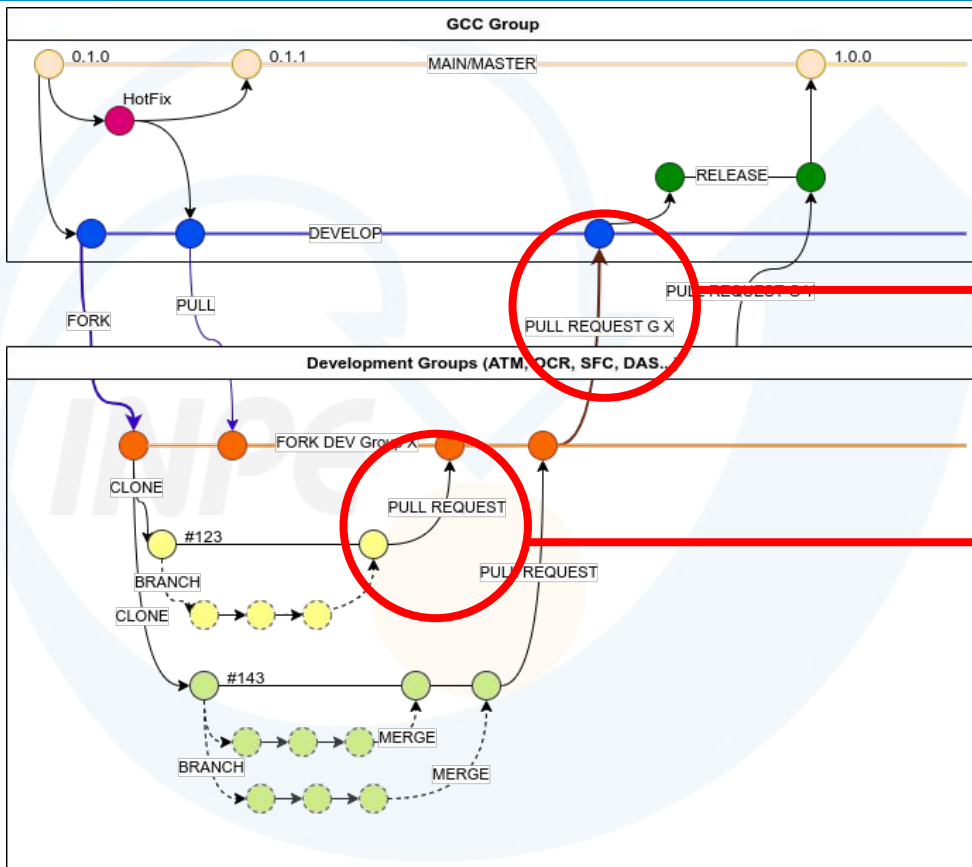
Your main branch isn't protected
Protect this branch from force pushing or deletion, or require status checks before merging. [Learn more](#) Protect this branch ✕

This branch is up to date with monanadmin/MONAN-Model:main. Contribute Sync fork

luflarois Initial version of MONAN (0.1.0) deea5ca last week 14 commits

doc	Initial version of MONAN (0.1.0)	last week
src	Initial version of MONAN (0.1.0)	last week
test	Initial version of MONAN (0.1.0)	last week
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licenca-gpl-3.0.pt-br.md	licenses included from monanadmin/monan repository	last month
license-gpl-3.0.eng.md	licenses included from monanadmin/monan repository	last month

Workflow



**“Gatekeeper”
Somente no
Repositório
Principal**

**Pull Request
para o fork
realizado!**

- Vídeo: Sistema de Controle de Versões Git e GitHub
- Autor: Carlos F. Bastarz (Grupo de Assimilação de Dados - DIMNT)
- Link: <https://www.youtube.com/watch?v=wZLr6ARrGIU>



21 Referências

BASTARZ, C. F. Sistema de Controle de Versões - Git e GitHub (INPE). Disponível em:
<<https://www.youtube.com/watch?v=wZLr6ARrGIU>>.

DEVOPSCOUNSEL. Disponível em:
<<https://devopscounsel.com/git-update-a-branch-with-remote-main-branch/>>.

GitHub Docs. Sobre o Git. Disponível em:
<<https://docs.github.com/pt/get-started/using-git/about-git>>.

HOSTINGER Tutoriais. O Que é GitHub, Para Que Serve e Como Usar. Disponível em:
<https://www.hostinger.com.br/tutoriais/o-que-github#3_Entenda_Como_Funcionam_Commits_no_GitHub>.



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Obrigado

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