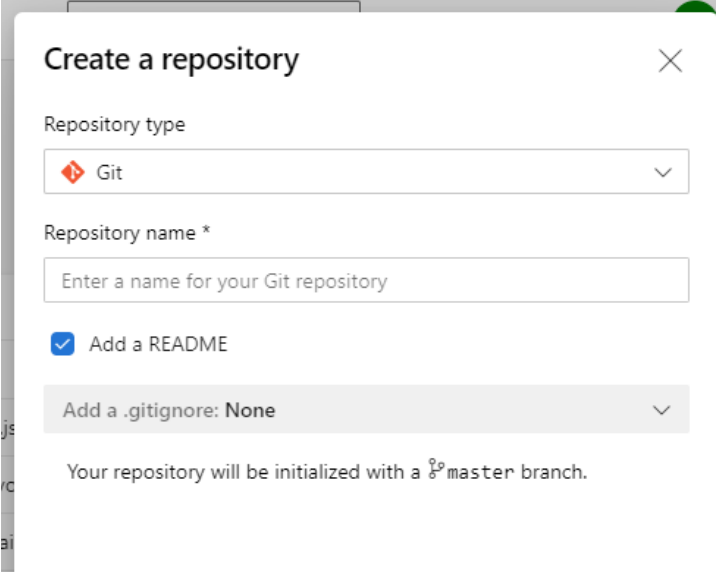# Azure Repos Workshop

Agenda

- Azure Repos
- Files
- Commits
- Pushes
- Branches
- Tags
- Pull Requests
- Q&A

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Azure Repos

- Git repository within Azure DevOps
- Alternative for other version control software
  - GitHub
  - TFS
  - CVS
  - SVN
  - ...

Create a repository   ✕

Repository type

▷ Git   ⌄

Repository name *

Enter a name for your Git repository

☑ Add a README

Add a .gitignore: **None**   ⌄

Your repository will be initialized with a ⌥ master branch.

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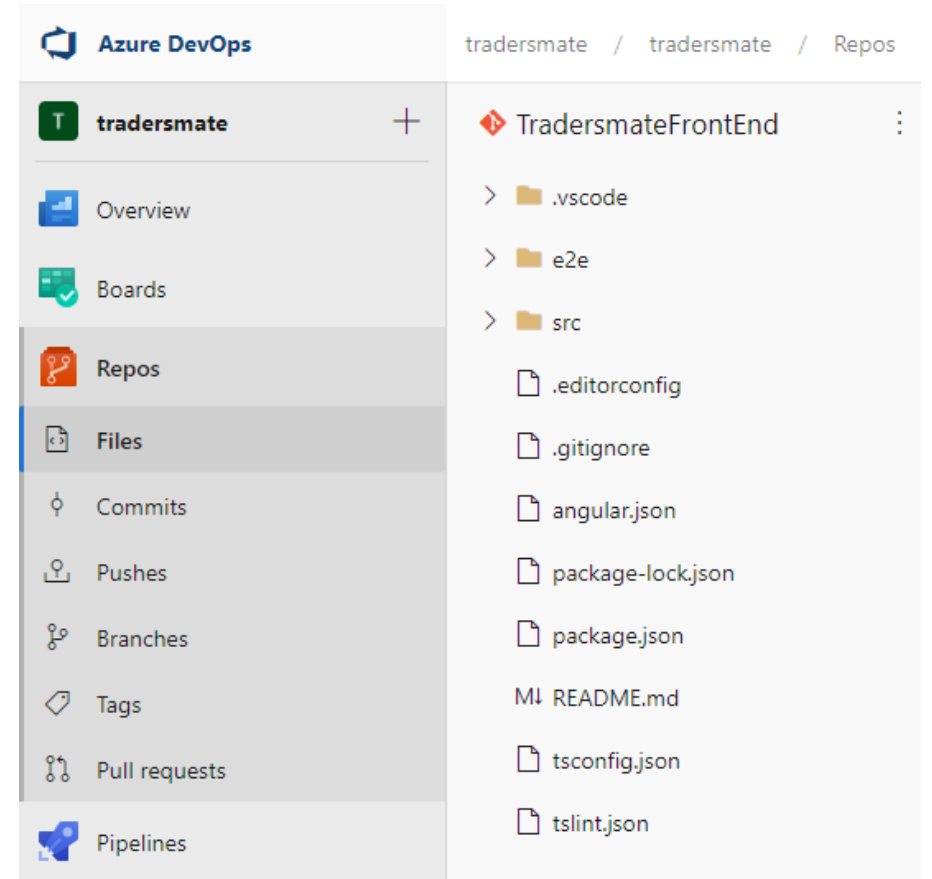
- Multiple ways to create a repository
    - Web
    - CLI
    - IDEs (VS, Xcode, IntelliJ, Eclipse)
- A repository generally contains code and documentation
- Existing repositories can be cloned

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Files

- Displays your files and folders in the browser

- Displays any readme markup files

- You can see the history per file

Commits

- Shows all individual commits for the selected branch

- Filter branches on name and tags

- Filter commits on commit id, date, and author

- Shows all pushes for the selected branch

- See the commits per push

- Filter pushes on name and tags

- Filter pushes on date and user

- There is an indication noting whether a triggered (pipeline) build was successful or not

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- Shows *mine*, *all*, and *stale* branches

- Can filter on branch names

- Can create new branches

- See the status of a triggered pipeline

- See the pull request the branch is related to

- See how many commits this branch is ahead or behind of the compare branch

- Set up branch policies

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- In general, you will want to set up policies on important branches

- Automatically applied to pull requests into these branches

- Examples
    - Minimum number of reviewers
    - Checking for linked work items
    - Checking for comment resolution
    - Build validations
    - Quality gate status checks

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Tags

- Create additional tags
- Find commits by tag

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- Pull requests are organized by *mine, active, completed, abandoned*

- Filter by pull request id and user

- Pull requests can require passing various checks before allowing completion
  - **These checks can be enforced by branch policies**

- Can be set to autocomplete once all checks pass

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Pull Requests

- A description can be added to the pull requests and comments can be written

- All separate updates (commits and pushes) can be checked

- Files can be inspected in the pull request

- Conflicts may be resolved in the pull request

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Azure DevOps Pull Requests

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Q&A

- Time for questions

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