

WorkshopPLUS: Azure DevOps Essentials – Git

Repositories - Local and Remote



Setting up Repository

Initialize a new repository: git init

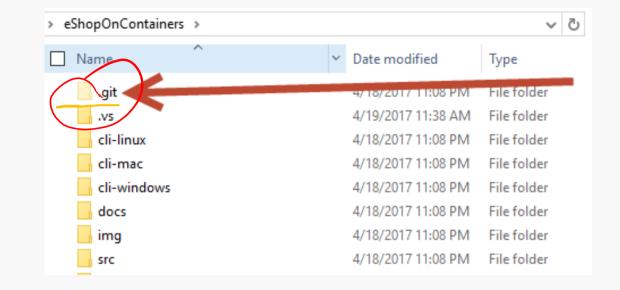
```
~/dev/source/repos> git init exercise1
[Initialized empty Git repository in /Users/brian/dev/source/repos/exercise1/.git/
~/dev/source/repos>
```

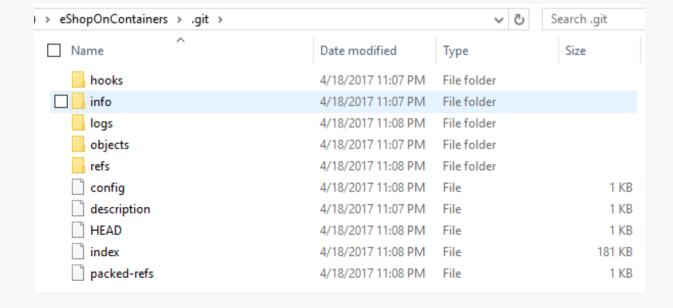
Create a new repository based on existing one: git clone URL

```
[~/dev/source/repos> git clone https://isvalmsig@dev.azure.com/isvalmsig/GitDemos/_git/TechTalk
Cloning into 'TechTalk'...
remote: Azure Repos
remote: Found 16 objects to send. (54 ms)
Unpacking objects: 100% (16/16), done.
~/dev/source/repos>
```

Git Init

- What gets created:
 - hidden folder (.git) containing:
 - Objects
 - Commit
 - Tree
 - Blob
 - Branches
 - HEAD (Current Branch)
 - Configurations such as remote URLs
 - Logs





Git Clone

git clone <Repo URL>

- Create a new folder for your repo
- Create a .gif folder and set your remote server for fetch/pull/push
- This will pull down the full repository from the URL
- Checkout the default branch

Configuration – Common Options

git config user.name "John Doe"

Set username for local repo – also have global as option

git config user.email "johndoe@git.com"

Set email for local repo – also have global option

git config --global user.email "johndoe@git.com"

Set email for global – user-specific at OS level

git config -I

View list of configurations

git config –global core.editor notepad

Set the default editor to notepad

Git Ignore

- Add file extensions and folders that you do not want Git to track.
- Files already tracked by Git are not affected, only new ones.
- In case you want to stop tracking a file that has already been tracked (if you tracked files before you added the .gitignore)

Common Uses of Git Ignore

Compiled sources

- *.com
- *.class
- *.dll
- *.exe
- *.O
- *.so

Logs and databases

- *.log
- *.sql
- *.sqlite

Packages

(it's better to unpack these files and commit the raw source, git has its own built in compression methods)

- *.7z
- *.dmg
- *.gz
- *.iso
- *.jar
- *.rar
- *.tar
- *.zip

OS generated files

.DS_Store

.DS_Store?

. *

.Spotlight-V100

.Trashes

ehthumbs.db

Thumbs.db

Demo: Create Repo

Clone existing repo Add files to repo



Knowledge Check

- Git command to create a new repository on your local machine?
- Git command to create a local repository based on a remote one?
- Git command to inspect the repository for changes?
- Git command to view the history of a repository?

Lab: Local and Azure Repositories

Configure Azure Repo Clone a repository Configure a repository View local history

