Git

Git Basic

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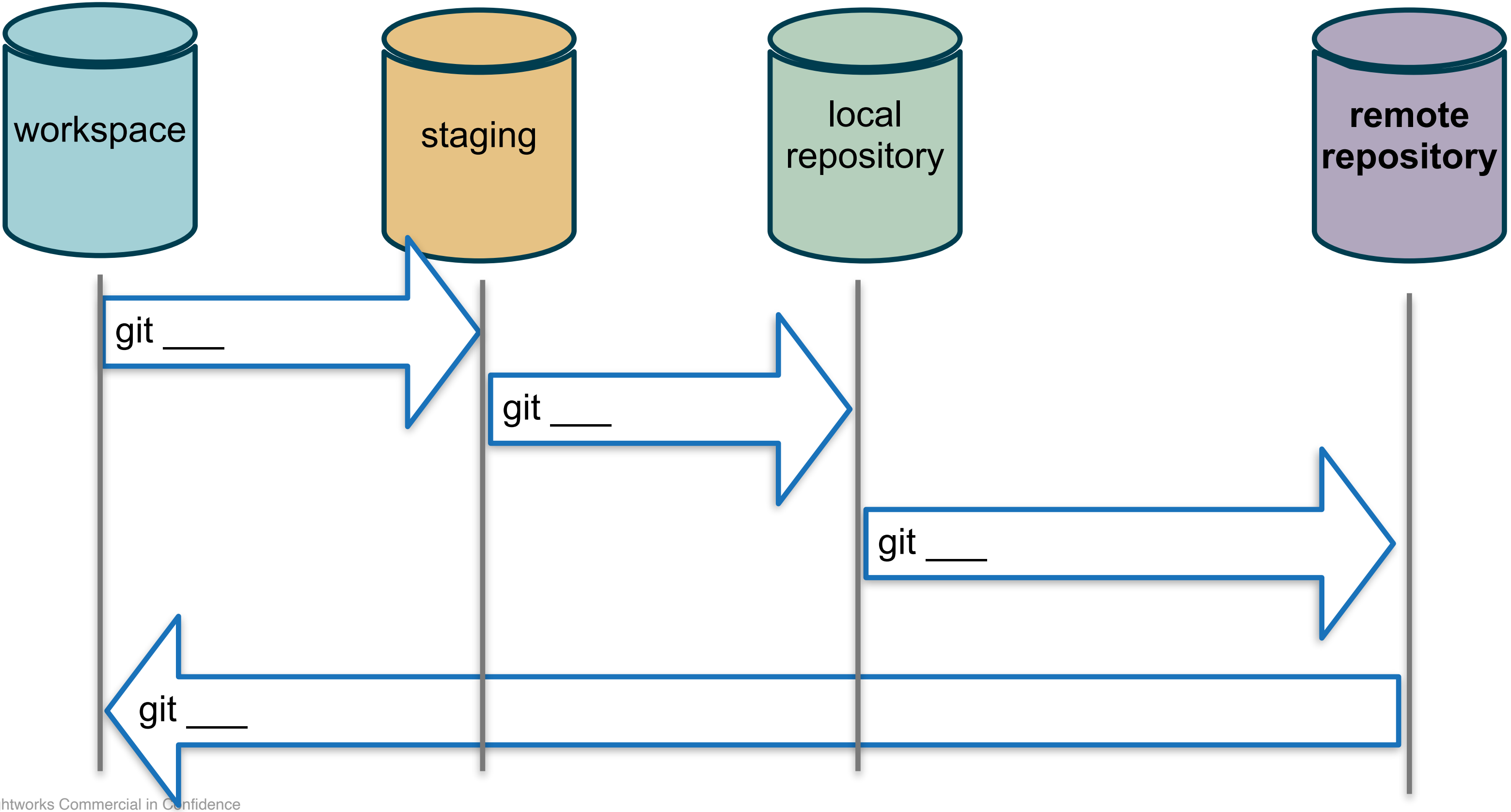
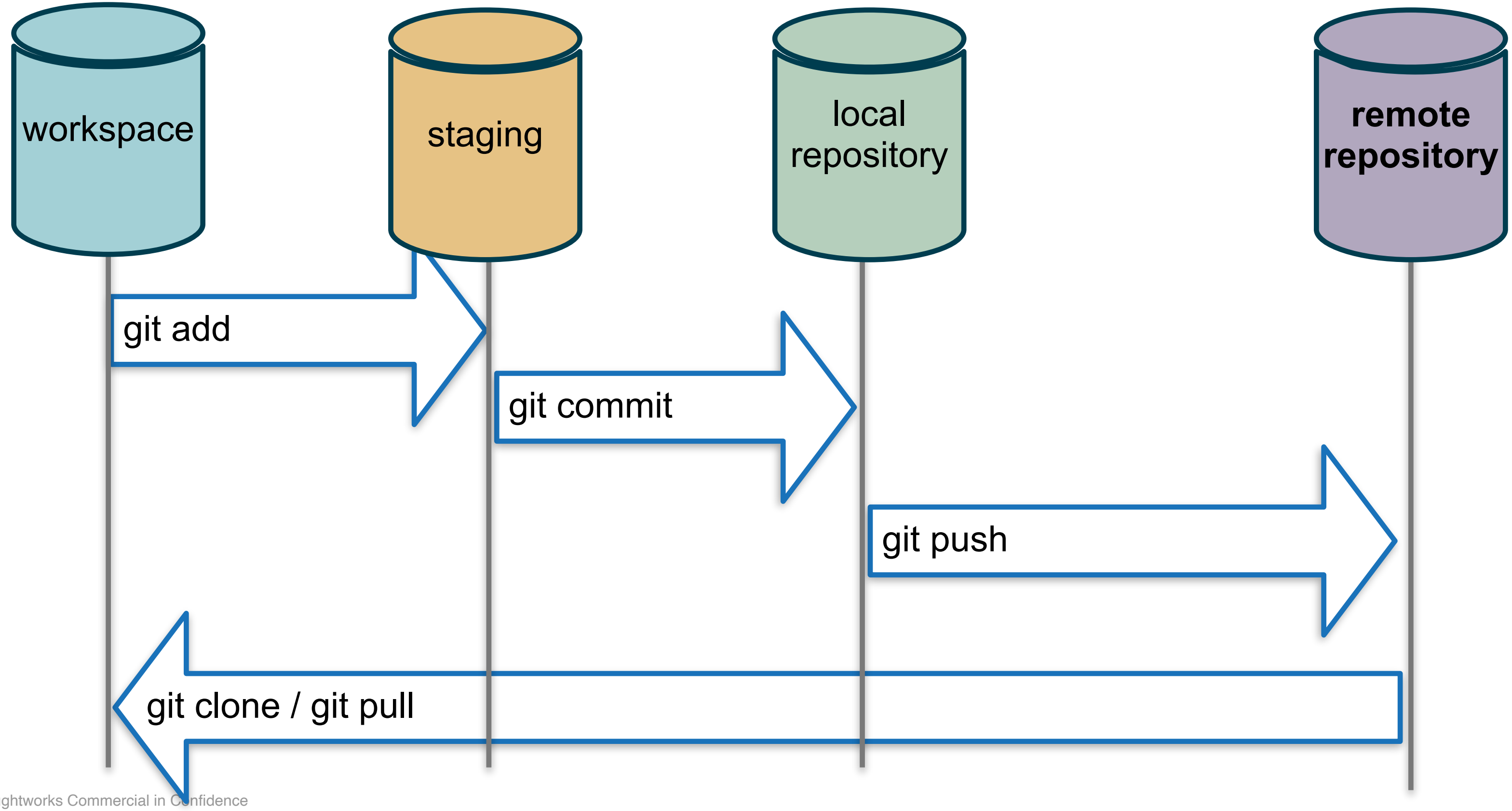
Git Commands



Git Commands



Git Commands

Git command	Description
git ___	Create a new Git repository
git ___	Show the working tree status
git ___	Add file contents to the index
git ___	Record changes to the repository
git ___	Display a record of the commits in a Git repository
git ___	Manage set of tracked repositories
git ___	Fetch from and integrate with another repository or a local branch
git ___	Update remote refs along with associated objects
git ___	Clone a repository into a new directory

Git Commands

Git command	Description
git **init**	Create a new Git repository
git **status**	Show the working tree status
git **add**	Add file contents to the index
git **commit**	Record changes to the repository
git **log**	Display a record of the commits in a Git repository
git **remote**	Manage set of tracked repositories
git **pull**	Fetch from and integrate with another repository or a local branch
git **push**	Update remote refs along with associated objects
git **clone**	Clone a repository into a new directory

Git Aliases: Add a shorthand for Git commands

- Run command “git config --global alias.st status”
- Check the file ~/.gitconfig
- Common git aliases

```
    st = status
    lg = log --graph --abbrev-commit --decorate --format=format:'%C(bold blue)
%h%C(reset) - %C(dim)%ad%C(reset) %C(cyan)%s%C(reset) %C(dim)- %an%C(reset)
%C(auto)%d%C(reset)'  --date=format:'%Y-%m-%d %H:%M:%S'
    ba = branch -a
    cm = commit -m
    cam = !git add -A && git commit -m
    co = checkout
    pr = pull --rebase
```

https://git-scm.com/book/en/v2/Git-Basics-Git-Aliases

Git Commit Best Practice

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Git Commit Best Practice

- Submit frequently in small steps
- Do not submit incomplete changes
- Test changes before submitting
- Detailed commit message

Recommend Message Format

type: message

type can be feat/fix/refactor/test e.g.

feat: a new feature

fix: a bug fix

refactor: code refactor

test: adding missing tests or change existing tests

For example, in cute number one of the commit maybe like this:
feat: find all even numbers

Git Exercise

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Git Commit Best Practice

- Submit frequently in ___ steps
- Do not submit ___ changes
- ___ changes before submitting
- ___ commit message

Git Commit Best Practice

- Submit frequently in **small** steps
- Do not submit **incomplete** changes
- **Test** changes before submitting
- **Detailed** commit message

Git Commit Message Format

type: message

type can be feat/fix/refactor/test e.g.

Please fill the type according to the commit messages.

___: find largest number

___: add test case to check if number greater than 10

___: use filter instead of for loop

___: fix wrong logic to check even number

Git Commit Message Format

type: message

type can be feat/fix/refactor/test e.g.

Please fill the type according to the commit messages.

feat: find largest number

test: add test case to check if number greater than 10

refactor: use filter instead of for loop

fix: fix wrong logic to check even number