

# Week 1 Unit 2:

# Git and the ESPM Application

# Git and the ESPM Application

## Git overview

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- Version control
- Distributed versioning
- Created in 2005 for Linux kernel development
- Enables collaborative workflows

<https://git-scm.com>



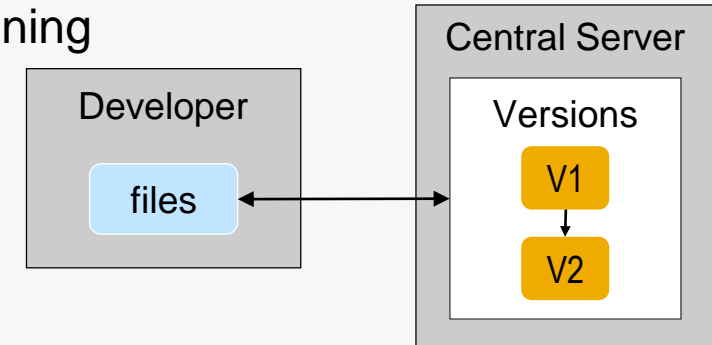
# Git and the ESPM Application

## Git overview: Distributed versioning

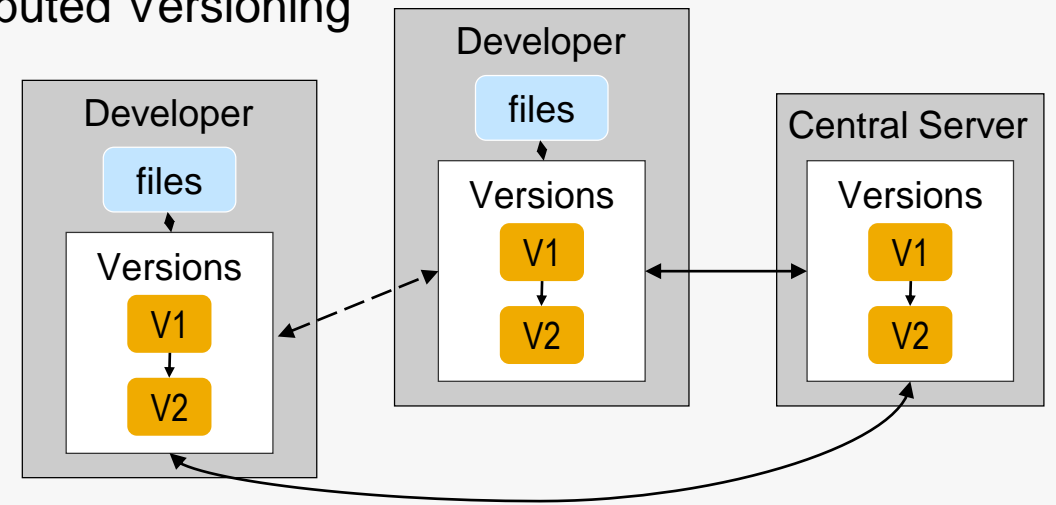
- There is no central authority
- The developer has the complete history
- Versions are created locally
- Branches are created locally

<https://git-scm.com>

### Central Versioning



### Distributed Versioning

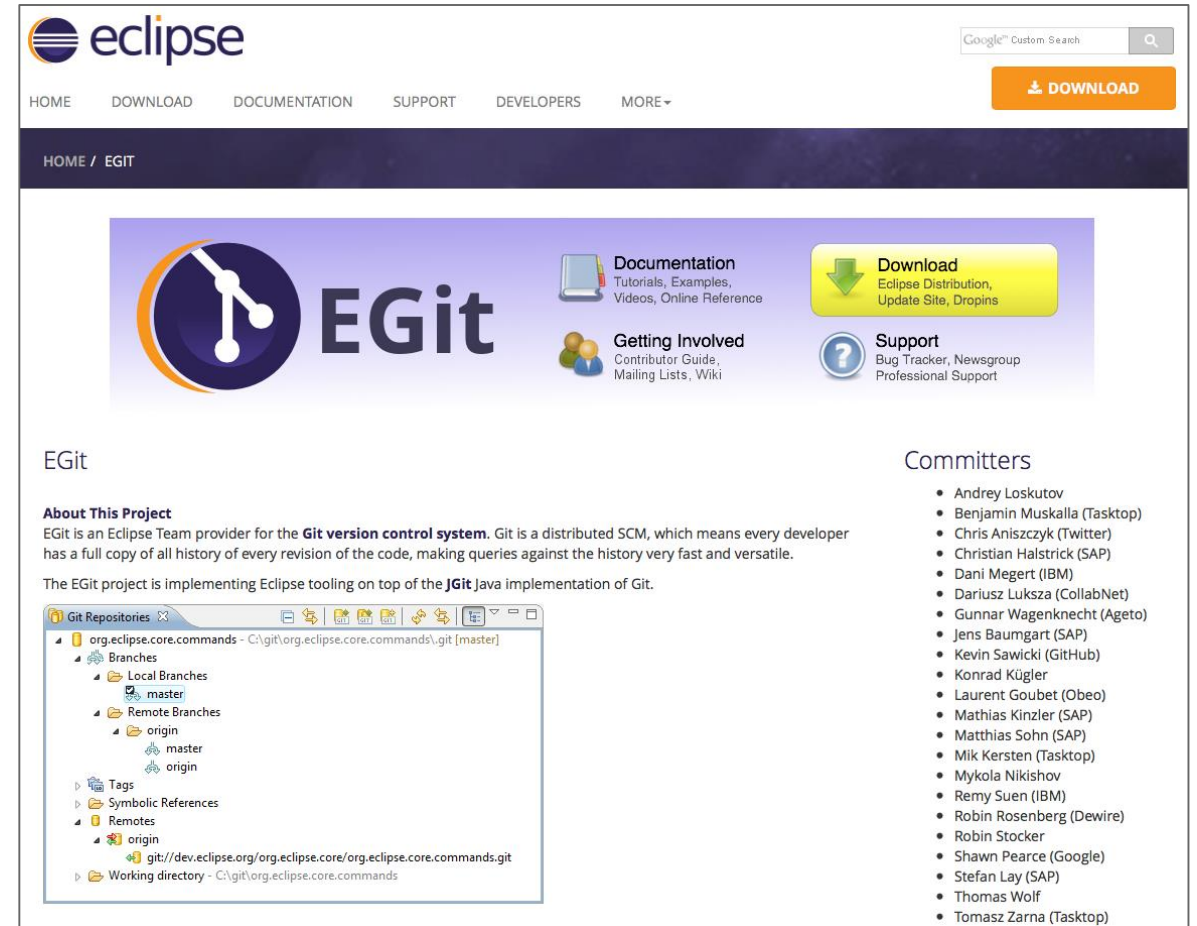


# Git and the ESPM Application

## Eclipse and Git

- Git can be used with Eclipse through EGit
- EGit is an Eclipse Team provider for Git
- EGit is included in Eclipse for Java EE developers
- You can still use the Git command line or GitHub Desktop in addition

<https://www.eclipse.org/egit>



The screenshot shows the Eclipse EGit website and a Git repository view in Eclipse. The website header includes the Eclipse logo, navigation links (HOME, DOWNLOAD, DOCUMENTATION, SUPPORT, DEVELOPERS, MORE), a Google Custom Search bar, and a prominent orange DOWNLOAD button. The main content area features the EGit logo, links to Documentation, Getting Involved, and Support, and a Download button. Below this, the 'About This Project' section explains that EGit is an Eclipse Team provider for the Git version control system. A screenshot of the Eclipse IDE shows the 'Git Repositories' view with a tree structure of branches, tags, and remotes. The 'Committers' list on the right side of the website includes names like Andrey Loskutov, Benjamin Muskalla, and others.

**EGit**

**About This Project**

EGit is an Eclipse Team provider for the **Git version control system**. Git is a distributed SCM, which means every developer has a full copy of all history of every revision of the code, making queries against the history very fast and versatile.

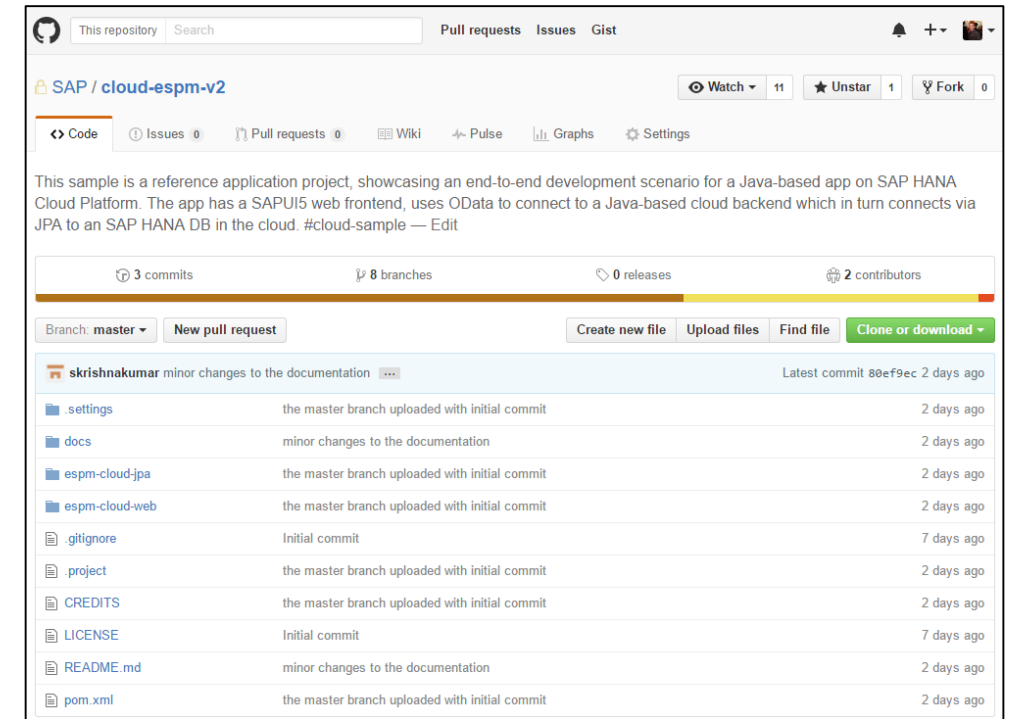
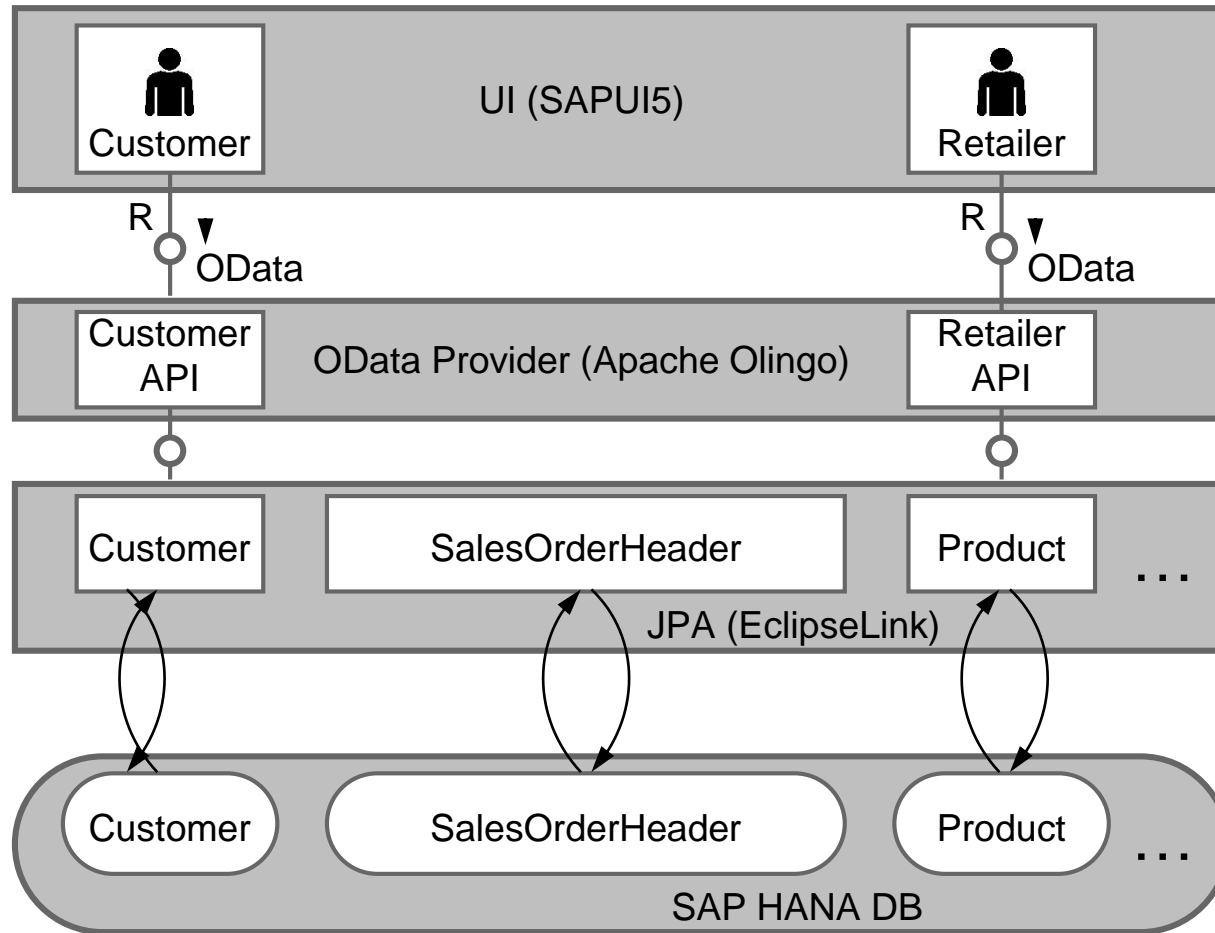
The EGit project is implementing Eclipse tooling on top of the **JGit** Java implementation of Git.

**Committers**

- Andrey Loskutov
- Benjamin Muskalla (Tasktop)
- Chris Aniszczyk (Twitter)
- Christian Halstrick (SAP)
- Dani Megert (IBM)
- Dariusz Luksza (CollabNet)
- Gunnar Wagenknecht (Ageto)
- Jens Baumgart (SAP)
- Kevin Sawicki (GitHub)
- Konrad Kügler
- Laurent Goubet (Obao)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Mik Kersten (Tasktop)
- Mykola Nikishov
- Remy Suen (IBM)
- Robin Rosenberg (Dewire)
- Robin Stocker
- Shawn Pearce (Google)
- Stefan Lay (SAP)
- Thomas Wolf
- Tomasz Zarna (Tasktop)

# Welcome and Overview

## The ESPM application – architecture and code



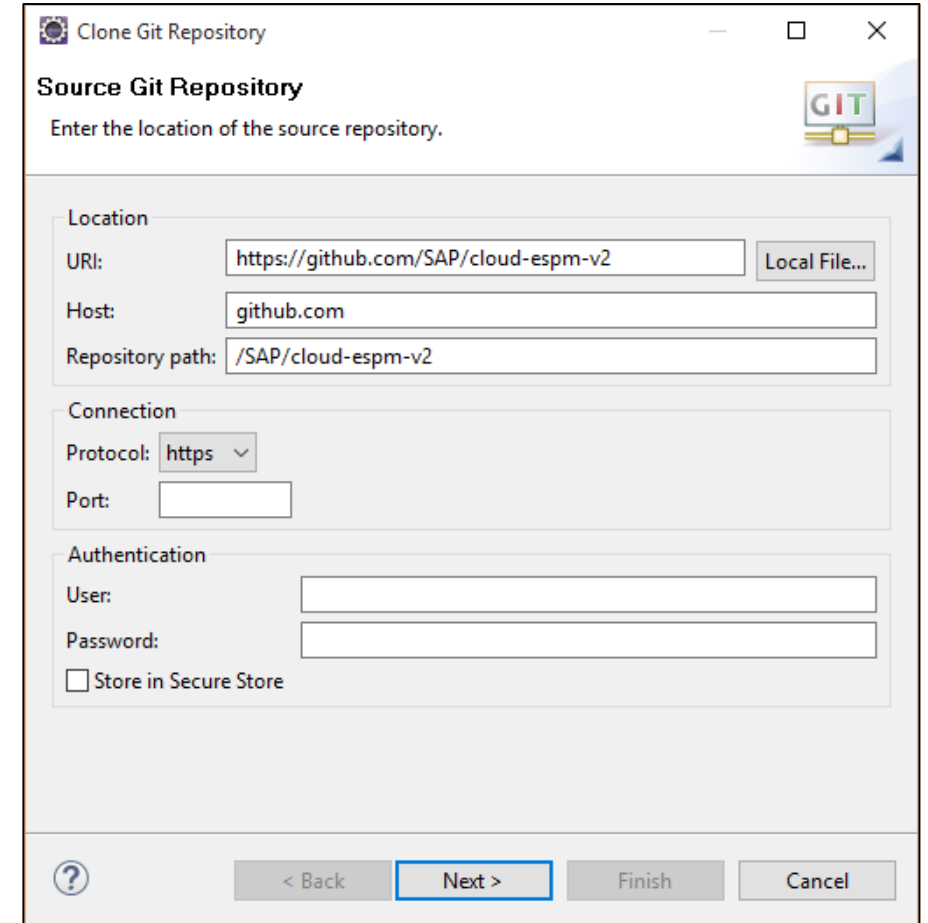
<https://github.com/SAP/cloud-espm-v2>

# Git and the ESPM Application

## Hands-on

### Cloning the ESPM application

- Go to the ESPM application on GitHub (<https://github.com/SAP/cloud-espm-v2>)
- Copy the HTTPS URI for cloning
- Open the Git perspective in Eclipse
- In the Git Repositories view, paste the URI you copied before under Git Repositories
- Enter the authentication details for your GitHub account
- Finish the cloning



The screenshot shows the 'Clone Git Repository' dialog box in Eclipse. The title bar says 'Clone Git Repository'. Below the title bar, it says 'Source Git Repository' and 'Enter the location of the source repository.' There is a 'GIT' logo in the top right corner. The dialog is divided into three sections: 'Location', 'Connection', and 'Authentication'. In the 'Location' section, the 'URI' field contains 'https://github.com/SAP/cloud-espm-v2', the 'Host' field contains 'github.com', and the 'Repository path' field contains '/SAP/cloud-espm-v2'. There is a 'Local File...' button next to the URI field. In the 'Connection' section, the 'Protocol' dropdown is set to 'https' and the 'Port' field is empty. In the 'Authentication' section, the 'User' and 'Password' fields are empty, and there is a checkbox for 'Store in Secure Store' which is unchecked. At the bottom of the dialog, there are four buttons: a help button (question mark), '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border.



# Git and the ESPM Application

## What you've learned in this unit

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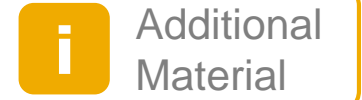
- What Git is
- How Git works
- How you can use Eclipse and Git together
- The ESPM application – architecture and code
- You have cloned the ESPM application to your local machine



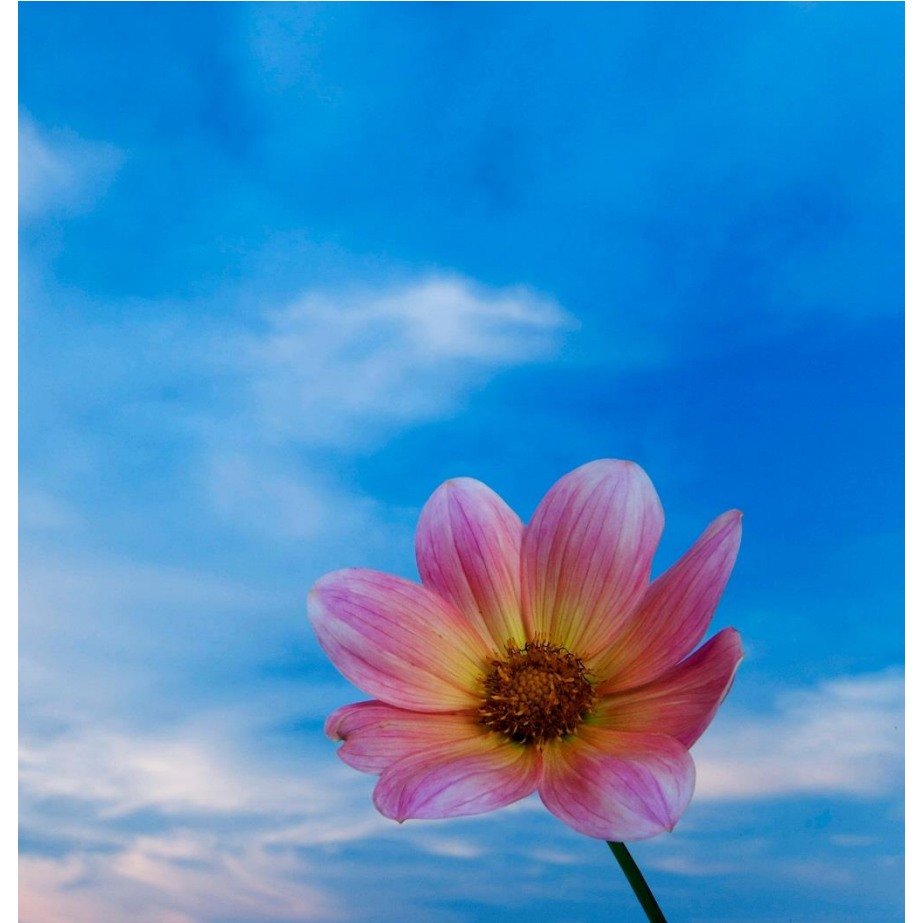
# Git and the ESPM Application

## Further Reading

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- Git website
- EGit website
- The ESPM application on GitHub







# Thank you

Contact information:

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open**SAP**

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