

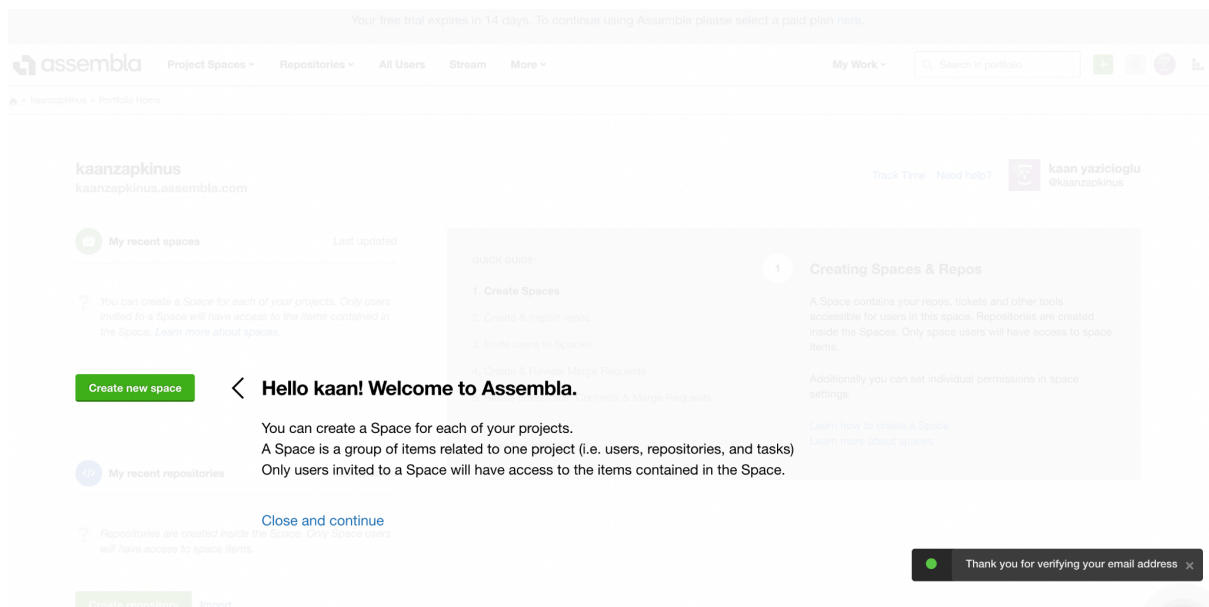
# LECTURE 2 report.

github repo: <https://github.com/kaanzapkinus/Software-Build-Automation-Tools>

## KAAN YAZICIOĞLU SD4

### TASK 1

I have created an Assembla account.



### TASK 2

I have created a new SVN repo.

#### Create New Repository

Repository needs to be created inside the Space. Space user will have access to this repo.

Create in space

sbatools

Repository name

lecture3

Repository type

SVN

Create empty repository

Import repository

🏠 » kaanzapkinus » sbatools » lecture3

**Source**   Commits   Compare   Instructions   Merge Requests   Import / Export   Security Scan   Settings

---

**sbatools.lecture3** New Merge Request Lock ▾ Add ▾ 📄 Checkout ▾

📁 <a href="#">branches</a>	2025-03-18 14:29	Automatically created readme.textile and /trunk, /branches, /tags directories. We reco...	1	<input type="checkbox"/>
📁 <a href="#">tags</a>	2025-03-18 14:29	Automatically created readme.textile and /trunk, /branches, /tags directories. We reco...	1	<input type="checkbox"/>
📁 <a href="#">trunk</a>	2025-03-18 14:29	Automatically created readme.textile and /trunk, /branches, /tags directories. We reco...	1	<input type="checkbox"/>
📄 <a href="#">readme.textile</a>	2025-03-18 14:29	Automatically created readme.textile and /trunk, /branches, /tags directories. We reco...	1	<input type="checkbox"/>

**Assembla.readme**

In assembla you can use [textile](#), [html](#) or [markdown](#) to add some sugar to your readme files. Just add the extension to your readme file, so we can recognize the markup you want to use!

## TASK 3

I've downloaded the SVN command-line tools via Brew.

# subversion

Version control system designed to be a better CVS

**Caveats**

svntools have been installed to: `$HOMEBREW_PREFIX/opt/subversion/libexec`

The perl bindings are located in various subdirectories of: `$HOMEBREW_PREFIX/opt/subversion/lib/perl5`

Homepage

<https://subversion.apache.org/> ↗

License

Apache-2.0

Versions

1.14.5 (bottled)

HEAD

Dependencies

apr   apr-util   **gettext**   **lz4**

**openssl@3**   utf8proc

Build Dependencies

pkgconf   python-setuptools

python@3.13   scones   swig

Installing subversion   ⌘   T
 Install   ⏪   |   Actions   ⌘   K

## TASK 4

I've Check out the repository to a local directory.

```
kaan@Kaan-MacBook-Air lecture3 % svn checkout https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/ lecture3
Authentication realm: <https://eu-subversion.assembla.com:443> Assembla Restricted Area
Password for 'kaan':

Authentication realm: <https://eu-subversion.assembla.com:443> Assembla Restricted Area
Username: kaanzapkinus
Password for 'kaanzapkinus': *****

A    lecture3/branches
A    lecture3/readme.textile
A    lecture3/tags
A    lecture3/trunk
Checked out revision 1.
kaan@Kaan-MacBook-Air lecture3 % cd svn\ repo
kaan@Kaan-MacBook-Air svn repo %
```

## TASK 5

Add a new file (project.txt) with a brief project description.

```
project.txt U x
lecture3 > svn repo > project.txt
1 This is a SVN project file with a brief description
2

SORUNLAR ÇIKIŞ HATA AYIKLAMA KONSOLU TERMİNAL BAĞLANTI NOKTALARI GİTLENS AÇIKLAMALAR
kaan@Kaan-MacBook-Air svn repo % echo "This is a SVN project file with a brief description" > project.txt
kaan@Kaan-MacBook-Air svn repo %
```

## TASK 6

6. Commit the changes with an appropriate commit message.

```
• kaan@Kaan-MacBook-Air svn repo % svn add project.txt
A      project.txt
• kaan@Kaan-MacBook-Air svn repo % svn commit -m "Added a project.txt file"
Adding      project.txt
Transmitting file data .done
Committing transaction...
Committed revision 2.
• kaan@Kaan-MacBook-Air svn repo % svn update
Updating '.':
At revision 2.
○ kaan@Kaan-MacBook-Air svn repo %
```

## TASK 7

Verify the commit using svn log.

```
• kaan@Kaan-MacBook-Air svn repo % svn log
-----
r2 | kaanzapkinus | 2025-03-19 13:22:07 +0100 (Çar, 19 Mar 2025) | 1 line
Added a project.txt file
-----
r1 | www-data | 2025-03-18 15:29:57 +0100 (Sal, 18 Mar 2025) | 1 line
Automatically created readme.textile and /trunk, /branches, /tags directories. We recommend you to put all your code there.
-----
○ kaan@Kaan-MacBook-Air svn repo %
```

## TASK 8-9-10

The SVN is asking for money to work together on the same REPO, so I have to continue alone.

```
≡ project.txt U ×
lecture3 > svn repo > ≡ project.txt
1   This is a SVN project file with a brief description
2
3   Kaan Yazıcıoğlu - SD4 (owner of the repo)
```

## TASK 11-12

Commit the changes and observe possible conflicts.

Resolve conflicts manually and commit the resolved file.

```
● kaan@Kaan-MacBook-Air svn repo % svn commit -m "project.txt update"
Sending          project.txt
Transmitting file data .done
Committing transaction...
Committed revision 3.
● kaan@Kaan-MacBook-Air svn repo % svn revert project.txt
● kaan@Kaan-MacBook-Air svn repo % svn update
Updating '.':
At revision 3.
○ kaan@Kaan-MacBook-Air svn repo % █
```

## TASK 13

Verify the final version in the repository.

```
● kaan@Kaan-MacBook-Air svn repo % svn log
-----
r3 | kaanzapkinus | 2025-03-19 13:31:53 +0100 (Çar, 19 Mar 2025) | 1 line
project.txt update
-----
r2 | kaanzapkinus | 2025-03-19 13:22:07 +0100 (Çar, 19 Mar 2025) | 1 line
Added a project.txt file
-----
r1 | www-data | 2025-03-18 15:29:57 +0100 (Sal, 18 Mar 2025) | 1 line
Automatically created readme.textile and /trunk, /branches, /tags directories. We recommend you to put all your code there.
-----
○ kaan@Kaan-MacBook-Air svn repo % █
```

## TASK 14

14. Create a new branch for feature development

svn copy <https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/trunk>  
<https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x>  
-m "Creating feature branch"

```
● kaan@Kaan-MacBook-Air svn repo % svn copy https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/trunk https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x -m "Creating feature branch"
Committing transaction...
Committed revision 4.
○ kaan@Kaan-MacBook-Air svn repo % █
```



## TASK 15-16-17-18-19-20-21

15. Check out the branch locally.
16. Modify files in the branch and commit changes.
17. Merge the branch into the trunk after completing development.
18. Commit the merged changes.
19. Delete the branch if no longer needed.
20. Create a release tag from the trunk.
21. Verify the tag exists in the repository.

```
• kaan@Kaan-MacBook-Air svn repo % svn copy https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/trunk https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x -m "Creating feature branch"
Committing transaction...
Committed revision 7.
• kaan@Kaan-MacBook-Air svn repo % svn checkout https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x
Checked out revision 7.
• kaan@Kaan-MacBook-Air svn repo % svn commit -m "Modified files in feature-x branch"
• kaan@Kaan-MacBook-Air svn repo % svn merge https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x
svn: E195016: 'https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x@7' must be ancestrally related to 'https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/trunk'
• kaan@Kaan-MacBook-Air svn repo % svn commit -m "Merged feature-x branch into trunk"
• kaan@Kaan-MacBook-Air svn repo % svn delete https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/branches/feature-x -m "Deleting branch after merge"
Committing transaction...
Committed revision 8.
• kaan@Kaan-MacBook-Air svn repo % svn copy https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/trunk https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/tags/release-1.0 -m "Tagging release 1.0"
Committing transaction...
Committed revision 9.
• kaan@Kaan-MacBook-Air svn repo % svn list https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/tags
release-1.0/
• kaan@Kaan-MacBook-Air svn repo % svn checkout https://eu-subversion.assembla.com/svn/kaanzapkinus^sbatools.lecture3/tags/release-1.0
A .
release-1.0/trunk
Checked out revision 9.
• kaan@Kaan-MacBook-Air svn repo %
```

# FINAL

🏠 » kaanzapkinus » sbatools » lecture3

Source

Commits

Compare

Instructions

Merge Requests

Import / Export

Security Scan

Settings

sbatools.lecture3

New Merge Request

Lock ▾

Add ▾

⬇️

Checkout ▾

🔗 Branch /branches/release-1.0 was updated an hour ago.

Compare & Create Merge Request

<div>📁 branches</div>	2025-03-19 12:44	<div>🔗</div>	Deleting branch after merge	8	<input type="checkbox"/>
<div>📁 tags</div>	2025-03-19 12:44	<div>🔗</div>	Tagging release 1.0	9	<input type="checkbox"/>
<div>📁 trunk</div>	2025-03-18 14:29		Automatically created readme.textile and /trunk, /branches, /tags directories. We r...	1	<input type="checkbox"/>
<div>📄 project.txt</div>	2025-03-19 12:31	<div>🔗</div>	project.txt update	3	<input type="checkbox"/>
<div>📄 readme.textile</div>	2025-03-18 14:29		Automatically created readme.textile and /trunk, /branches, /tags directories. We r...	1	<input type="checkbox"/>

Assembla.readme

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Wednesday, March 19

<div>🔗</div>	kaan yazicioglu	9 📁	★ Tagging release 1.0	2025-03-19 12:44	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	8 📁	★ Deleting branch after merge	2025-03-19 12:44	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	7 📁	★ Creating feature branch	2025-03-19 12:43	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	6 📁	★ Tagging release 1.0	2025-03-19 12:41	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	5 📁	★ Deleting branch after merge	2025-03-19 12:40	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	4 📁	★ Creating feature branch	2025-03-19 12:39	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	3 📁	★ project.txt update	2025-03-19 12:31	Browse	<div>👍 0 🗨️ 0</div>
<div>🔗</div>	kaan yazicioglu	2 📁	★ Added a project.txt file	2025-03-19 12:22	Browse	<div>👍 0 🗨️ 0</div>

Thursday, March 19