



**Daniel Wroblewski**

February 14, 2017 3 minute read

## Using Git in SAP Web IDE (with Multiple Developers)

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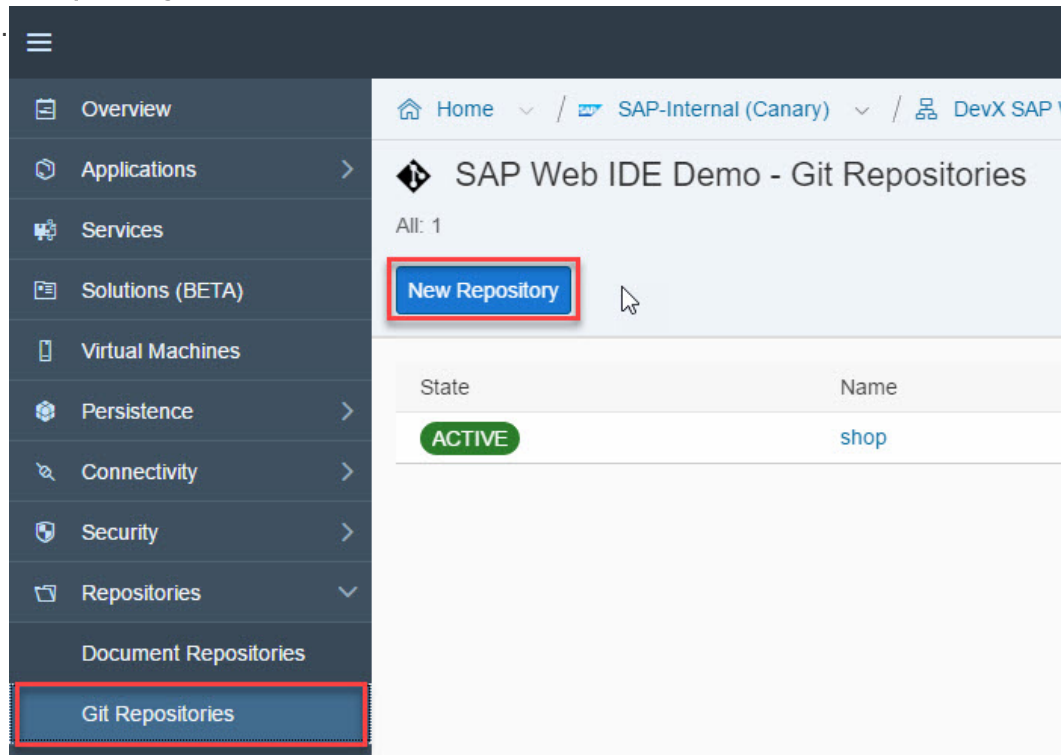
I wanted to revisit the basic use of Git because there have been several changes in the last six months to make it easier to use, as well as changes in the SAP Cloud Platform.

I'm glad the topic is getting some exposure — thanks to Kiran for her [recent blog](#) on the topic, especially a view in the SAP Cloud Platform cockpit showing how to create a new version of an application from a specific commit. Still, there are a few additional things to show, including multi-developer scenario.

### Want to watch?

Below I will spell out the steps, but here's a fresh 3-minute video that shows the complete steps for starting working with Git in a multi-developer scenario.


1. **Create a Git repository.** This can be in Github or in a Git system in your company. For our example, we create a Git repository in the SAP Cloud Platform.



Creating a Git repository in SAP Cloud Platform is now simpler. You no longer have to create an application to get a Git repository, nor from SAP Web IDE do you have to create a project and deploy it. In SAP Cloud Platform, just go to the cockpit and select **Repositories** → **Git Repositories**,

and create one by clicking **New Repository**. Click on your new repository and get the clone URL for later.

[Home](#) / [SAP-Internal \(Canary\)](#) / [DevX SAP Web IDE](#) / [SAP Web IDE Demo](#) / [shop](#)

 **shop - Git Repository**

ACTIVE

[Set Read Only](#) [Delete](#) [Garbage Collection](#) [Web IDE](#)

Details

Name: shop

Description:

[Edit](#)

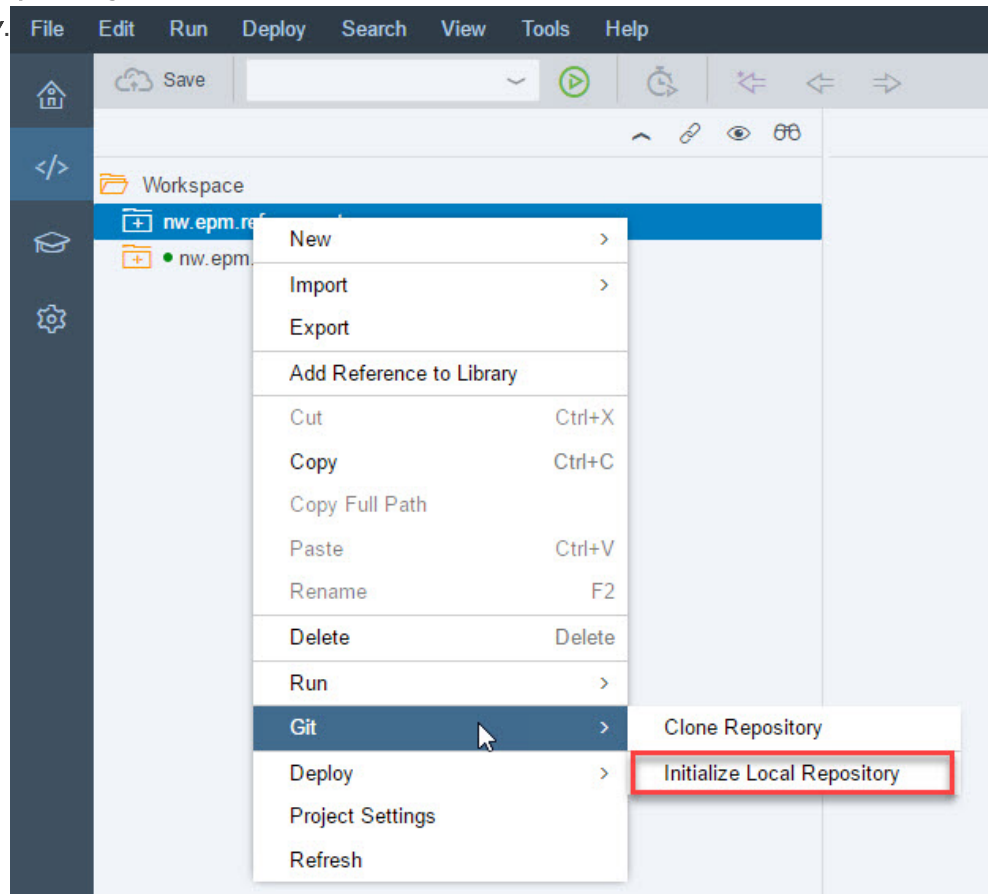
Source Location

Repository URL: [https://git.int.sap.hana.ondemand.com/\[redacted\]/shop](https://git.int.sap.hana.ondemand.com/[redacted]/shop)

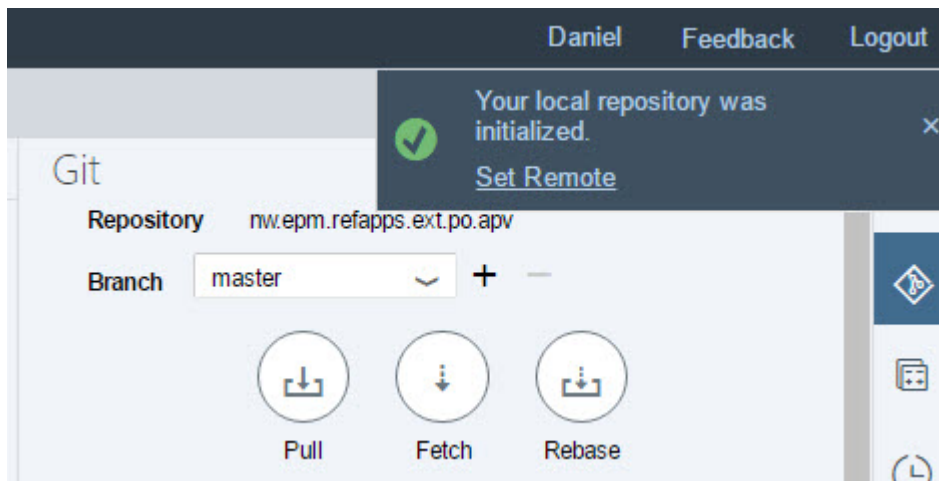
Repository Browser: [https://git.int.sap.hana.ondemand.com/plugins/gitiles/\[redacted\]](https://git.int.sap.hana.ondemand.com/plugins/gitiles/[redacted]) shop

2. **Create a project.** In SAP Web IDE, create a project, for example, from a template.

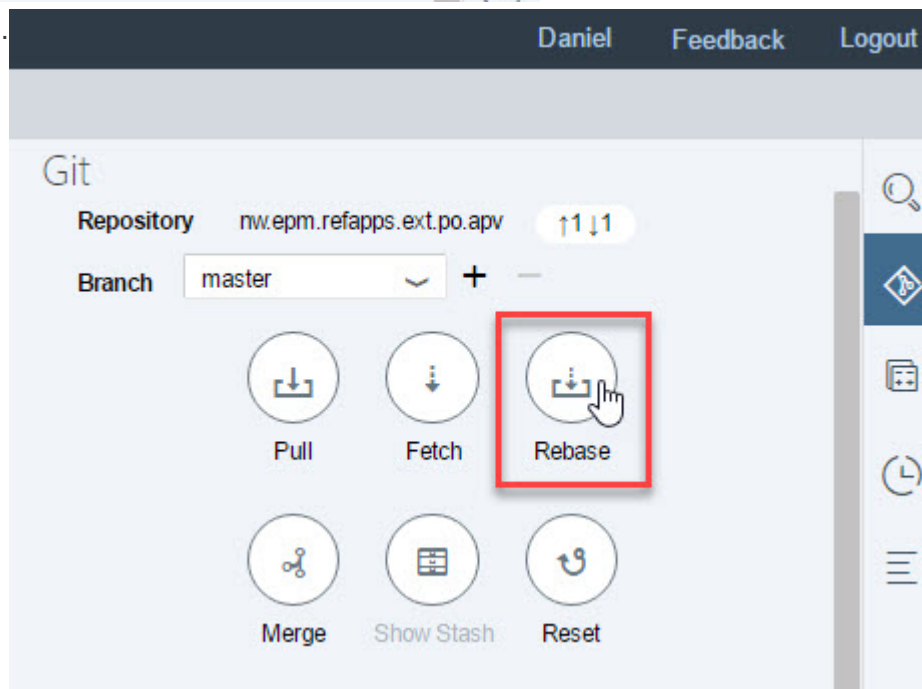
3. **Initialize a local repository.** Make your project a local Git repository by right-clicking the project in the workspace, and selecting **Git** → **Initialize Local Repository**.



4. **Set remote repository.** Here's where you connect your local repository in Step 3 to the remote repository you created in Step 1. Click on **Set Remote**, either in the notification you get after initializing, or in the Git menu.

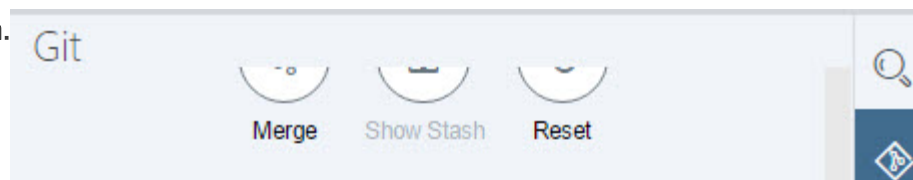


5. **Rebase.** Get the latest commits.



If you don't rebase, you'll have trouble pushing later. A common problem I had was that on my first commit I could not push (the dreaded FAST FORWARD error), even though I knew my repository was empty. But in fact the repository has an automatic first commit, and you need to retrieve it. (When you create the Git repository in SAP Cloud Platform, you are asked if you want a first commit — it's on by default.)

6. **Stage, commit, and push.**



Commit

1 ☒ Stage All [Discard All Changes](#)

Status	Name	Stage	Discard
N	webapp/ ... /SubControllerForA...	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /i18n_en_US_sapp...	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /i18n_en_US_saptr...	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /i18n_en.properties	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /i18n.properties	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /F1373_Approve_P...	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /launchicon/114_iP...	<input checked="" type="checkbox"/>	<a href="#">↶</a>
N	webapp/ ... /launchicon/144_iP...	<input checked="" type="checkbox"/>	<a href="#">↶</a>

Commit Description

2 My first commit

A Change ID for Gerrit will not be added ☐ Amend Changes 3

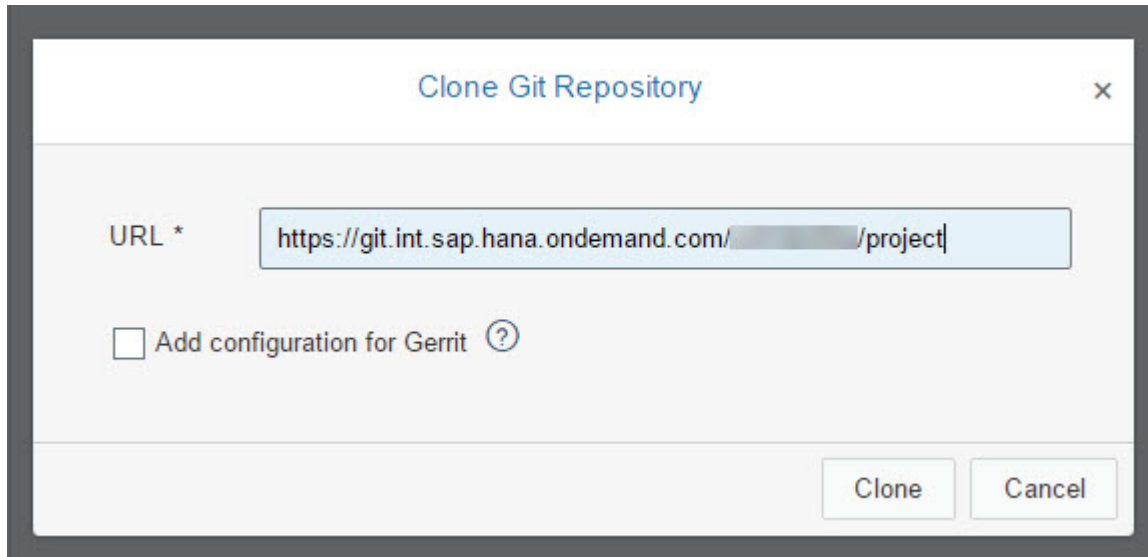
Commit and Push [Commit](#) 4 [Push](#) [Stash](#)

I often forget to add a commit message and then wonder why the **Commit** button is disabled.

Developer 2

Now a second developer is interested in working on the project.

1. **Clone the repository.** Get the clone URL from the first developer, and go **Clone** → **Git** → **Clone Repository**. The clone dialog is much simpler, and now you only need a clone URL. You can also select whether your repository works with Gerrit for code checking. More on Gerrit in another blog.

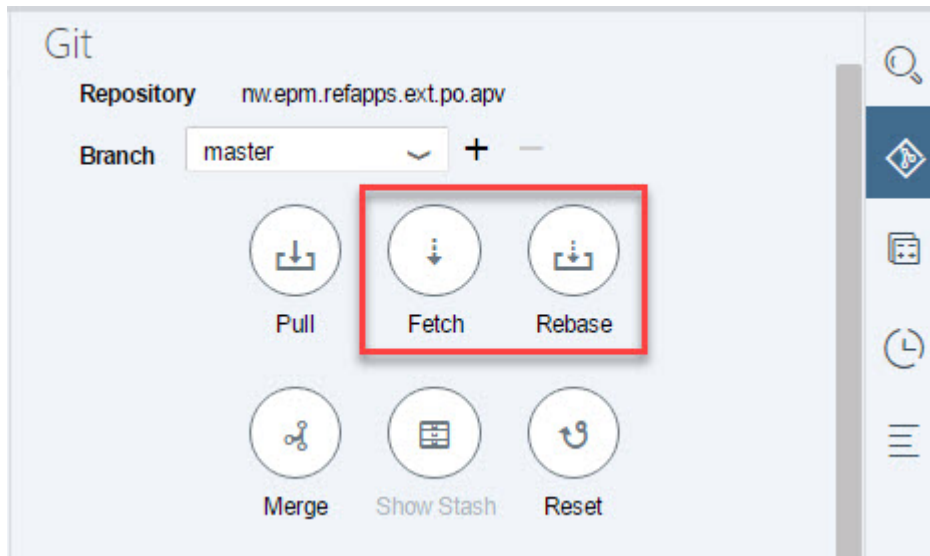


2. **Code.** Make changes to the project as necessary.
3. **Stage, commit, and push.**

## Developer 1

Back to the first developer, who wants to get the latest changes.

1. **Fetch.** Fetching brings back information about the remote repository — like what branches there are and what commits you are missing — but it does not update your project in the SAP Web IDE.



2. **Rebase.** Rebasing updates your project with all the changes in the remote repository made by other developers (and that you already brought back with the Fetch command).

That's it. In upcoming blogs, we'll go through what happens when there are conflicts, and how to use Gerrit for code review and collaboration.



Alert Moderator

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## Assigned tags

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SAP Web IDE | development tools for SAP BTP, Neo environment | clone | commit | development | fetch | git |

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By **Raz Korn** , Nov 19, 2015

[Want to use Bitbucket as your Project Repository with SAP Web IDE?](#)

By **Raz Korn** , Dec 13, 2015

[SAP Web IDE – Online and Offline development with Web IDE on HCP and Web IDE Personal Edition](#)

By **Former Member** , Oct 05, 2016

## Related Questions

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[How to avoid authentication in SAP Web IDE using HTTPS?](#)

By **Jai Vignesh R** , Jun 16, 2018

[Corporate Git repository connection to cloud web IDE](#)

By **Boopalan M** , Jul 03, 2018

[How to Store multiple fiori applications in single or multiple git repository](#)

By **Aditya Kumar** , Oct 12, 2018

## 37 Comments

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[Ram Ganti](#)

[March 23, 2017 at 7:02 pm](#)

Hi Daniel,

Thank you for your post. Its helpful.

I have two trail accounts. In one trail account, I have created GIT repository and stored sample project created in that account.

I tried to clone the same repository in other trial account, I got error as "Service not enabled".

Please can you help me to understand the issue.

Like(0)



[Daniel Wroblewski](#) | Post author

[March 26, 2017 at 4:03 pm](#)

There is no supported use case where a user from one account will get access to a repository in another account. The use case I described was with 2 developers in the same account. You could of course use Github, but you essentially have the same issue -- you need to create an account in Github.

Like(0)



[Abdel DADOUCHE](#)

[April 6, 2017 at 11:34 am](#)

Hi @Ram Ganhti & @Daniel Wroblewski,

This is actually feasible on trial as well.

In the past you use to have a dialog where you could enter your credentials, but in a trial scenario I wasn't making sense as you would only use your GIT.

So the dialog is now simplified with just the remote source url only.

So to connect to a remote account GIT on trial, you will need to adjust the repository url and include the remote user id in it like this:

<https://<remote scp user id>@git.hanatrial.ondemand.com/<remote scp user id>/<remote scp git repo name>>

Then you should get prompted for the password for <remote scp user id>. Make sure you check "Remember password".

Hope this helps.

@bdel

Like(0)



Ezequiel A

May 4, 2017 at 3:26 pm

Abdel.

This is exactly what i'm looking for.

I tried your suggestion, but when i Input the password for <remote scp user id>, it does'nt work. It says "Not authorized"...

Just to clarify, the password im putting is the pasword for the <remote scp user id> user, the one i use to login to SAP HCP.

Is there something i'm missing?

Thanks!

Ez

Like(0)



Abdel DADOUCHE

May 4, 2017 at 3:52 pm

Hi,

Let's say I'm user A with my Git repo name myrepo I want to share with you, let's call you user B.

So, from a WebIDE session under user B credentials, I would enter:

`https://userA@git.hanatrial.ondemand.com/userA/myrepo`

Then I will have to enter user A password when prompted.

It was working when I wrote the response, but I haven't tested it since then to be honest.

@bdel

Like(0)



Ezequiel A

May 4, 2017 at 6:14 pm

Thank you very much for your answer!

Yes, that's exactly what i'm doing, but i get the "Not Authorized" message...

May be it's not working anymore?

If it's not much asking.. when you have a minute could you try if it's working now? Just to discard that it's me doing something wrong.

Ez.

Like(0)



SAMARASIMHA REDDY

June 6, 2017 at 7:27 am

HI ,

Is it possible to get Git Repository files and content ? other application ? we need any API support here ?

i will tell you my case:

i have one input files and button . in the input filed i give hcp git url like <https://git.hanatrial.ondemand.com/p1xxxxx/fioridemo>.

after clicking submit button i need to get the “fioridemo” files and content in table .

i get succeed using github.com to get the user repository files and content by using <https://api.github.com/> API file.

is there any API file to get the HCP Git repository ?

please suggest me on this.:)

Regards,  
Sam

Like(0)



Michal Keidar

June 8, 2017 at 6:40 am

Please create a separate thread and use the relevant tags for it

Like(0)



Ekansh Saxena

January 5, 2018 at 7:36 pm

Hello Abdel,

I also tried your approach but even after entering the password of userA while cloning the userA's repository in userB's webide, it is not working. I am sure that I am entering the correct password.

Can you help in this?

Regards,

Ekansh

Like(0)



Abdel DADOUCHE

January 8, 2018 at 7:56 am

Hi [Ekansh Saxena](#)

As @Michal Keidar remomended you should create a question for this.

At the time I provided my response it was working, but since then the WEB IDE and The GIT integration in SAP Cloud Platform may have change.

Regards

Abdel DADOUCHE

Like(1)



Daniel Wroblewski | Post author

June 5, 2017 at 12:08 pm

OK, I thought you meant you had one user who had access to 2 SCP accounts. So in essence you have simply set up 2 trial accounts (with 2 different users) and do not grant permissions across accounts. Right?

Like(0)



Abdel DADOUCHE

June 6, 2017 at 8:04 am

yes, 2 trial accounts (with 2 different users). Then from one setup the GIT, and on the second use the first one credentials as mentioned earlier.

Let me know if it worked for you.

Like(0)



Michal Keidar

June 5, 2017 at 12:16 pm

Unrelated question - how did you tag the persons in your comment?

Thanks ☐

Like(0)



Abdel DADOUCHE

June 6, 2017 at 8:02 am

You can use the "at" sign with the user name ;-).

Like(0)





Michal Keidar

June 6, 2017 at 4:01 pm

@Abdel DADOUCHE - does it work? I don't think it works..

Like(0)



Abdel DADOUCHE

June 6, 2017 at 4:10 pm

It use to work ☐ @Michal Keidar

Like(0)



SAMARASIMHA REDDY

June 7, 2017 at 3:33 am

Can you answer my question ?

Like(0)



SAMUELE BARZAGHI

May 16, 2017 at 8:59 pm

Hi,

I think url should be:

<https://userA@git.hanatrial.ondemand.com/accountA/myrepo>

example:

<https://p0XXXXXX@git.hanatrial.ondemand.com/p0XXXXXXtrial/myrepo>

Bye

Sam

Like(3)



Fernanda Maia

July 2, 2017 at 11:40 pm

I tried this way sharing repositories between two trial accounts and it worked! Thanks a lot! =)

Like(0)



SAMARASIMHA REDDY

June 5, 2017 at 11:57 am

Hi ,

Is it possible to get Git Repository files and content ? other application ? we need any API support here ?

i will tell you my case:

i have one input files and button . in the input filed i give hcp git url like <https://git.hanatrial.ondemand.com/p1xxxxx/fioridemo>.

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is there any API file to get the HCP Git repository ?

please suggest me on this..)

Regards,  
Sam

Like(0)



Abdel DADOUCHE

June 7, 2017 at 9:23 am

Hi,

Unfortunately, I didn't find any API exposed for GIT repositories hosted on the SAP Cloud Platform.

Maybe @Daniel Wroblewski will have an answer.

Regards

Like(1)



Sam Reddy

June 7, 2017 at 10:28 am

Hi,

Thanks for the return.

i'm also facing same issue with HCP Git , @Daniel Wrobleski or anyone can help here .

i'm able to get repositories from Github actually.

Regards,  
Sam

Like(0)



Ho Quoc Vuong

July 12, 2017 at 8:20 am

Hello,

When I pull remote repository to my local branch in SAP Web Ide, I've got this problem with GIT:

```
3:13:49 PM (git) Pull request failed No merge base could be determined. Reason=CONFLICTS_DURING_MERGE_BASE_CALCULATION. "More than 200  
a ac84124fd128aa579db65693b36be11b5d9a3575  
b 1b9e27eb78bed7f9ec40517fee32dfb0a5504ef7 found:  
count 2"
```

I've searched but found no solution, the only solution is mentioned [here](#).

They suggest to update the git version to higher version, but it seems unable to do so in sap web IDE. The Web IDE also does not support git command line so there's no solution to get over this bug.

Could you please support this case?

Thanks a lot!

Victor.

Like(0)



**Daniel Wroblewski** | Post author

July 16, 2017 at 1:59 pm

Hi Victor,

I have not encountered this problem. Can you do a Fetch and then a Rebase?

Daniel

Like(0)



**Ho Quoc Vuong**

July 21, 2017 at 4:29 am

Hi Daniel,

The git system has fixed the problem.

After getting the error, I've tried to Fetch then Rebase but I didn't work.

After sometimes, Git system has fixed the error (I'm not sure how) by merging all the changes into one commit. I've searched the Internet and the community mentioned that this is a bug from Git.

I hope we won't encounter this bug in the future.

Thank you!

Victor

Like(1)



**Diana Martinsone**

[December 11, 2017 at 7:52 am](#)

Hi, when I try to clone the Git repository to my workspace from HCP, all I get is gitignore file. WebIDE console gives error (CloneandOpen) Path parameter not found. I cannot find any solution or description of the similar problem anywhere, do you have any idea why cloning git is not working for me?

Like(0)



[Daniel Wroblewski](#) | Post author

[December 11, 2017 at 11:57 am](#)

It's tough to diagnose...can you provide screen shots and exactly what you did, and the exact message?

Like(0)



[Diana Martinsone](#)

[December 12, 2017 at 9:29 am](#)

Hi, Daniel, I found the reason why it is like this - the GIT master branch link is empty, instead tree is visible and is located under the version tags. What could be done so I could get to the tree and clone it to webIDE?

Thanks!

Like(0)



[Daniel Wroblewski](#) | Post author

[December 12, 2017 at 11:38 am](#)

[Uri Nizan](#) Can you suggest an answer?

Like(0)

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Michal Tall

December 17, 2017 at 11:58 am

Hi Diana ,

I'm trying to understand your flow:

1. From the cockpit you go to Git Repository.
2. From the list of the git project you click on your project.
3. Then you copy the 'Repository URL'
4. From Web IDE you click on File > Git > Clone Repository
5. You paste the copied URL into URL field and click on Clone.
6. And then what ? do you get an error message ? do you get your project tree ?

If it is possible please attach a screenshot and/or update the scenario.

Please specify what is expected and what is the actual result.

Regards,

Michal

Like(0)

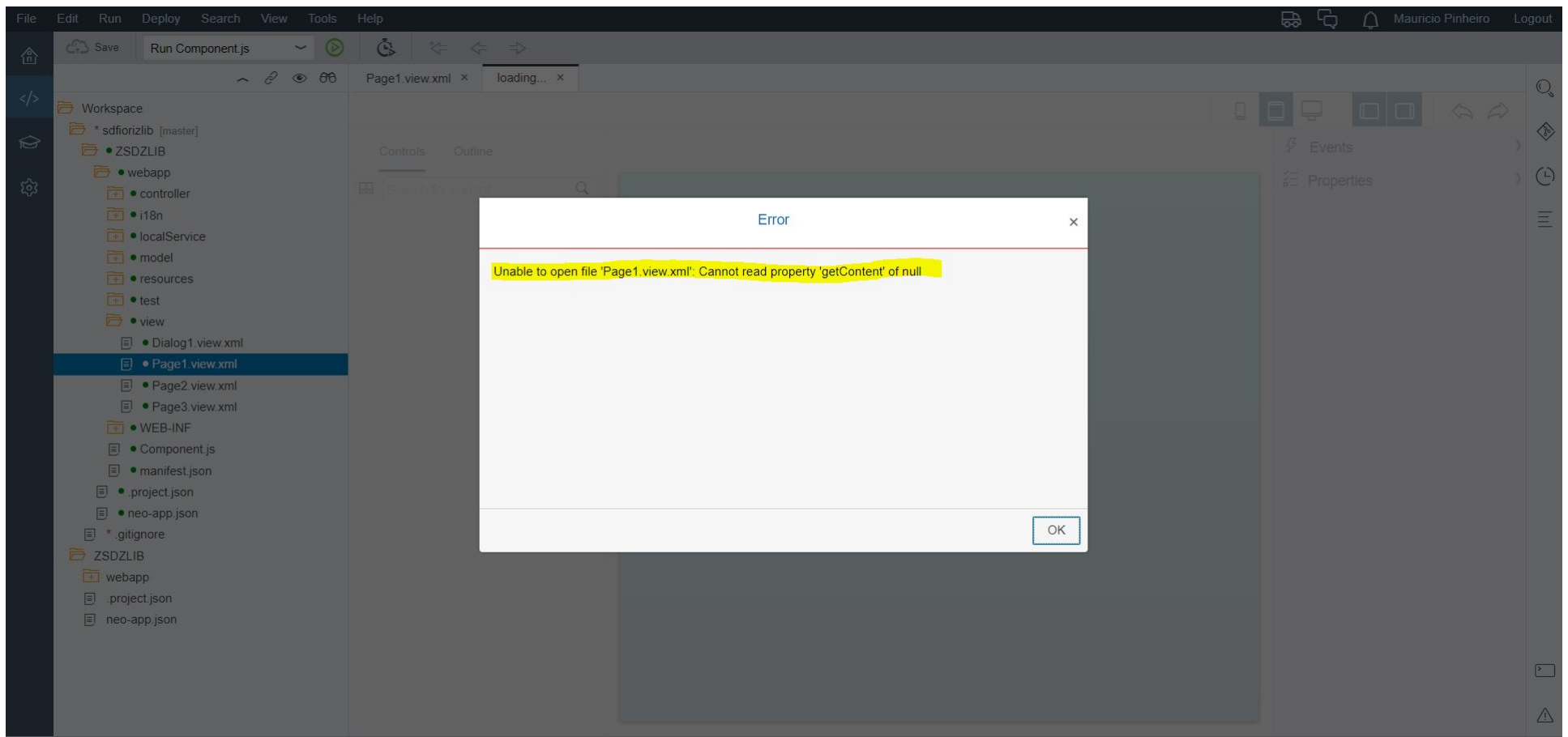


Mauricio Pinheiro Predolim

June 28, 2018 at 4:01 pm

Hi guys.

After using GIT in SAPWEBIDE, i'm having this issue for every single view that i try to open in Layout editor:



Testing with same project outside GIT it's working...

Any thoughts?

Thanks.

Mauricio



Like(0)



[Daniel Wroblewski](#) | Post author

[July 15, 2018 at 7:25 am](#)

[Michal Tall](#) Do you know anything about this issue?

Like(0)



[Mauricio Pinheiro Predolim](#)

[November 22, 2018 at 11:50 pm](#)

Hi.

Any news about the Git clone repository above?

Best regards.

Mauricio.

Like(0)



[Michal Keidar](#)

[November 25, 2018 at 7:37 am](#)

Hi Mauricio,

First, please create a separate question for your issue, and not as a comment in a blog.

Second, I see from your screenshot that you're using the old version of Web IDE. Please use Web IDE Full-Stack, and if you're still having this issue, either open a support ticket (if you have a paid license), or create a new question.

Regards,  
Michal.

Like(0)



**Swaroop Anasane**

November 5, 2019 at 3:13 pm

**Mauricio Pinheiro Predolim** I confirm it's working on trail webide.

GIT on user A, cloned to user B, using credentials on user A.

Regards,

Swaroop

Like(0)



**sani kali**

January 9, 2020 at 10:32 am

Hi Daniel,

This is very helpful.

Can you tell me after this can we fetch this code in Visual studio code with the help of SAP Git repository ?

If yes could you please tell me how to do this ?

Thanx

Sani.

Like(0)



**Daniel Wroblewski** | Post author

January 9, 2020 at 12:38 pm

1. This was a while ago and I'm not with SAP Web IDE anymore, so I'm not so up to date.
2. I'm sure there has been a lot of changes with the SCP Git functionality, as well as the way in SAP Web IDE for using Git (e.g., can create Git repository from within SAP Web IDE without going to cockpit).
3. I'm not sure I understand the question: You mean can someone not logged into SCP access the Git repository? When I clone from a Git repository, I have to log into my SCP account.
4. This tutorial is based on the Neo environment, which seems likely to be superseded by Cloud Foundry. I don't see repositories in CF.

Hope that helps a little ☐

Like(0)

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## Git in SAP Web IDE - The Basics (Revisited)



## How to work with Git

### Developer 1

Here's the workflow for the first developer (with tips along the way).