Integration with Jenkins



Jenkins

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Overview

Xray enables easy integration with Jenkins through the "Xray for JIRA Jenkins Plugin", providing the means for successful Continuous Integration by allowing users to report automated testing results.

Release Notes

- Xray for JIRA Jenkins Plugin 1.3.0 Release Notes
- Xray for JIRA Jenkins Plugin 1.2.1 Release Notes
- Xray for JIRA Jenkins Plugin 1.2.0 Release Notes
- Xray for JIRA Jenkins Plugin 1.1.0 Release Notes
- Xray for JIRA Jenkins Plugin 1.0.0 Release Notes

Installation

The installation is made manually. For more information on how to install add-ons, please refer to how to install add-ons.

Requirements

The Jenkins baseline for this app is v2.60.3 and it may not work properly with previous versions.

Manual Installation

Download the latest version of the Jenkins Plugin

You may download the latest version of the Jenkins plugin from the latest Release Notes.

If you have the actual xray-for-jira-connector.hpi file,

- 1. Go to the Update Center of Jenkins in Manage Jenkins > Manage Plugins.
- 2. Select the advanced tab
- 3. In the Upload Plugin section, click upload and select the file xray-for-jira-connector.hpi file.

Configuration

Xray for Jenkins is configured in the global settings configuration page Manage Jenkins > Configure System > Xray for Jira configuration.

Jira servers

The Jira servers configuration defines connections with Jira instances.

To add a new Jira instance connection, you need to specify some properties:

- 1. Configuration alias
- 2. Server Address: The address of the Jira Server where Xray is running
- 3. Authentication:
 - a. User: username
 - b. Password.

note: the Configuration ID is not editable. This value can be used in the pipelines scripts.

Please note

The user present in this configuration must exist in the JIRA instance and have permission to Create Test and Test Execution Issues

Xray for JIRA configuration			
JIRA servers		2ffc3a3e-9e2f-4279-abcd-e9301fe47bed	
	Configuration alias	Xray instance	
	Server address	http://locahost:8080	
	Username	admin	
	Password		
		Test Com	nection
		Delete in	stance
	Configuration ID	28788e67-ae2a-4217-9308-7e638e2eb1dc	
	Configuration alias	Xray instance 2	
	Server address	http://localhost.9090	
	Username	admin	
	Password		
		Test Com	nection

Save	Apply

Creating a new Project

The project is where the work that should be performed by Jenkins is configured.

For this app, you can configure:

- Freestyle projects
- Maven Projects
 Multi-configuration Projects
 Pipeline Projects

. In the home page, clicking for example New Item > Freestyle project, provide a name, and then click OK.

Enter an item name			
Xray project			
Freestyle project This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.			
Pipeline Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.			
External Job This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.			
Multi-configuration project Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.			
Folder Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.			
GitHub Organization Scans a GitHub organization (or user account) for all repositories matching some defined markers.			
Multibranch Pipeline Creates a set of Pipeline projects according to detected branches in one SCM repository.			
if you want to create a new item from other existing, you can use this option:			
Copy from Type to autocomplete			
ок			

Build Steps

Build steps are the building blocks of the build process. These need to be defined in the project configuration.

The app provides

- one build step for exporting Cucumber Scenario/Scenario Outlines from Jira as .feature files
- one build step for importing Cucumber Tests from existing Cucumber features into Jira.
- one post-build action which publishes the execution results back to Jira, regardless of the build process status.

Please note

The fields of the tasks may take advantage of the Jenkins Environment variables, which can be used to populate fields such as the "Revision" for specifying the source code's revision. For more information, please see Jenkins set environment variables.

Xray: Cucumber Features Export Task

This build step will export the Cucumber Tests (i.e., Scenario/Scenario Outlines) in .feature or bundled in a .zip file. The rules for exporting are defined here.

It invokes Xray's Export Cucumber Tests REST API endpoint (see more information here).

Configuration

Some fields need to be configured in order to export the Cucumber Tests. As input, you can either specify issue keys (see the endpoint documention here) or the ID of the saved filter in Jira.

field	description
Jira instan ce	The Jira instance where Xray is running
lssue keys	Set of issue keys separated by ";"
Filter ID	A number that indicates the filter ID
File path	The relative path of the directory where the features should be exported to; normally, this corresponds to the "features" folder of the Cucumber project that has the implementation steps. Note: The directory will be created if it does not exist.

Xray: Cucumber Features Import Task

This build step will import existing cucumber Tests from existing Cucumber feature files into Xray issues. This Task will import from .feature files and also from .zip files.

It invokes Xray's Import Cumcumber Tests REST API endpoint (see more information here)

field	decription
JIRA instance	The Jira instance where Xray is running.
Project Key	This is the project where the Tests and Pre-Conditions will be created/updated.
Cucumber feature files directory	This is the directory containing your feature files. All the files in this directory and sub directories will be imported.
Modified in the last hours	By entering an integer <i>n</i> here, only files that where modified in the last <i>n</i> hours will be imported. Leave empty if you do not want to use this parameter.

Xray: Results Import Task

The app provides easy access to Xray's Import Execution Results REST API endpoints (see more information here). Therefore, it mimics the endpoints input parameters.

It supports importing results in Xray's own JSON format, Cucumber, Behave, JUnit, and NUnit, among others.

Using a glob expression, you can import multiple results files in the following formats:

JUnit

- TestNG
- NUnit
- Robot framework

For those formats, the file path needs to be relative to the workspace.

Configuration

field	description
Jira instance	The Jira instance where Xray is running
Format	A list of test result formats and its specific endpoint
Execution Report File	The results relative file path
	Note: glob expressions are supported for
	JUnitTestNGNUnitRobot framework

Additional fields

Depending on the chose test result format and endpoint, some additional fields may need to be configured.

format and specific endpoint	field	description
Behave JSON multipart Cucumber JSON multipart NUnit XML multipart JUnit XML multipart Robot XML multipart TestNG XML multipart	Test execution fields	An object (JSON) specifying the fields for the issue. You may specify the object either directly in the field or in the file path. Learn more The custom field IDs can be obtained using the Jira REST API Browser tool included in Jira. Each ID is of the form "customfield_ID". Another option, which does not require Jira administration rights, is to invoke the "Get edit issue meta" in an existing issue (e.g., in a Test issue) as mentioned here. Example: GET http://yourserver/rest/api/2/issue/CALC-1/editmeta
NUnit XML	Import to Same Test Execution	When this option is check, if you are importing multiple execution report files using a glob expression, the results will be imported to the same Test Execution
JUnit XML	Project key	Key of the project where the Test Execution (if the Test Execution Key field wasn't provided) and the Tests (if they aren't created yet) are going to be created
Robot XML TestNG XML	Test execution key	Key of the Test Execution
	Test plan key	Key of the Test Plan
	Test environments	List of Test Environments separated by ";"
	Revision	Source code's revision being target by the Test Execution
	Fix version	The Fix Version associated with the test execution (it supports only one value)

Examples

Cucumber

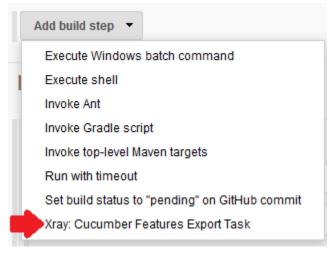
In a typical Cucumber Workflow, after having created a Cucumber project and the Cucumber tests specified in Jira, you may want to have a project that **ex ports** the features from Jira, executes the automated tests on a CI environment and then **imports** back its results.

For this scenario, the Jenkins project would be configured with a set of tasks responsible for:

- 1. Pulling the Cucumber project
- 2. Exporting Cucumber features from Jira to your Cucumber project
- 3. Executing the tests in the CI environment
- 4. Importing the execution results back to Jira

Exporting Cucumber features

To start the configuration, add the build step Xray: Cucumber Features Export Task.



After that, configure it.

In this example, we configured the task to extract the features from a set of issues (PROJ-78 and PROJ-79) to the folder that holds the Cucumber project.

Xray: Cucumbe	r Features Export Task	×
JIRA Instance	Xray local	×
Issues:	PROJ-78;PROJ-79	0
Filter:		0
File Path:	features	0

Importing Cucumber features

To start the configuration, add the build step Xray: Cucumber Features Import Task.

dd build step 👻	
▲ FailureBuilder]
Invoke Ant	
Invoke Gradle script	
Invoke top-level Maven targets	
MockBuilder	
Run with timeout	
Set build status to "pending" on GitHub commit	
SleepBuilder	
UnstableBuilder	
Xray: Cucumber Features Export Task	

After that, configure it.

In this example, we configured the task to import to the Project IF of the Xray instance all the .features and .zip files that are contained in \Cucumber directory and sub directories, which were modified in the last 3 hours.

Xray: Cucumber Features Impo	rt Task	
Jira Instance	Xray instance	(
Project Key	IF	
Cucumber feature files directory	VCucumber	
Modified in the last hours	3	

Importing the execution results

To start the configuration, add the post-build action Xray: Results Import Task.

Aggregate downstream test results
Archive the artifacts
Build other projects
Publish JUnit test result report
Publish Javadoc
Record fingerprints of files to track usage
Git Publisher
E-mail Notification
Editable Email Notification
Set GitHub commit status (universal)
Set build status on GitHub commit [deprecated]
Xray: Results Import Task
Delete workspace when build is done

After that, configure it.

In this example, we configured the task to import the Cucumber JSON results back to Jira.

Xray: Results	Xray: Results Import Task			
JIRA Instance	Xray local	\sim		
Format	Cucumber JSON	\sim		
Parameters	Execution Report File (file path with file name) report json			

Once all configurations are done, click Save at the bottom of the page.

After running the job, the expected result is a new Test Execution issue created in the Jira instance.

Project Create		Type: All ▼ ithin the last…	Status: All ▼	Assignee: All 🕶	Contains text	More -	Q	Advanced				=-
1–1 of	1 S											Columns -
ТР	Key	Summary				Te	sts asso	ociation with a Test Execution	Statu	s Created 🕹	Updated	
D F	PROJ-177	Execution re	esults [148907]	7439985]		PF	ROJ-79	PROJ-78	OPE	09/Mar/17	09/Mar/17	•••

1–1 of 1 Ġ

Importing the execution results with user-defined field values

For Cucumber, Behave, JUnit, Nunit and Robot, Xray for Jenkins allows you to create new Test Executions and have control over newly-created Test Execution fields. You can send two files, the normal execution result file and a JSON file similar to the one Jira uses to create new issues. More details regarding how Jira creates new issues here.

For this scenario and example, the import task needs to be configured with the **Cucumber JSON Multipart** format. When selecting this option, you can additionally configure the *Test Execution fields* in one of two ways:

- Insert the relative path to the JSON file containing the information, or
- Insert the JSON content directly in the field.

In this example, we configured the following object:

```
{
  "fields": {
    "project": {
        "key": "PROJ"
    },
    "summary": "Test Execution for Cucumber results (Generated by job: ${BUILD_TAG})",
    "issuetype": {
        "id": "10102"
    }
}
```

And configured the task to import the Cucumber JSON Multipart results back to Jira.

IRA Instance	Xray local	
ormat	Cucumber JSON multipart	
Parameters	Execution Report File (file path with file name)	report.json
	Test Execution fields	<pre>{ JSON Content</pre>

Once all configurations are done, click Save at the bottom of the page.

After running the job, the expected result is a new Test Execution issue created in the Jira instance, with the Test Execution fields as specified in the Jenkins build step configuration.

Project: All Type: All Status: All Assignee: All Contains text More Advanced Created Date: Within the last						=-
1–1 of 1 'S					Col	lumns 🗸
T Key Summary	Tests association with a Test Execution	Status Created 🗸	Updated	Test Environments	Labels	
PROJ-479 Test Execution for Cucumber results (Generated by job: jenkins-Xray Automated Tests-26)	PROJ-78	OPEN 04/Apr/17	04/Apr/17	None	None	•••

JUnit

Apart from supporting Cucumber natively, Xray enables you to take advantage of many other testing frameworks like JUnit. In this sense, Xray for Jenkins lets you import results in other formats besides Cucumber JSON.

If you want to import JUnit XML reports, a typical Job outline would be:

- 1. Pulling the JUnit project
- 2. Executing the tests in the CI environment
- 3. Importing the execution results, including Tests, to JIRA

Importing the execution results

To start the configuration, add the post-build action Xray: Results Import Task.

Aggregate downstream test results
Archive the artifacts
Build other projects
Publish JUnit test result report
Publish Javadoc
Record fingerprints of files to track usage
Git Publisher
E-mail Notification
Editable Email Notification
Set GitHub commit status (universal)
Set build status on GitHub commit [deprecated]
Xray: Results Import Task
Delete workspace when build is done

After that, configure it.

In this example, we have a configuration where the JUnit XML format is chosen.

Xray: Results I	mport Task		X					
JIRA Instance	Xray local							
Format	JUnit XML							
Parameters	Execution Report File (file path with file name)	JUnit/TestResult xml						
	Project Key	PROJ						
	Test Execution Key							
	Test Plan Key							
	Test Environments	Android;IOS;Cordova						
	Revision							
	Fix Version							

After running the plan, the expected result is a new Test Execution issue created in the JIRA instance.

			ype: All ▼ Status: All ▼ Assignee: All ▼ Contains text thin the last ▼ ③	More - Q	Advanced					≡∙
	1–1 of ' ⊤ ⊮	1 /G (ey	Summary	Tests as:	sociation with a Test Execution	Status	Created ↓	Updated	Test Environments	Columns -
		PROJ-185	Execution results - TestResult.xml - [1489165846959]	PROJ-1	21	OPEN	10/Mar/17	10/Mar/17	Android Cordova IOS	•••
	1–1 of [.]	1 'G								

You can also import multiple results using a glob expression, like in the following example

IRA Instance	xray-tst-docker		
ormat	JUnit XML		
Parameters	Import to Same Test Execution	8	
		When this option is check, if you are importing multiple execution report files using a glob expression, the results will be imported to the same Test Execution	
	Execution Report File (file path with file name)	\myreports***.xml	+
	Project Key	IF	
	Test Execution Key		
	Test Plan Key		
	Test Environments		
	Revision		
	Fix Version		

Pipeline projects support

Xray for Jenkins provides support for pipelines projects, allowing you to use Xray specific tasks.

Ente	r an item name
My	Pipeline Demo
» Requir	ed field
	Freestyle project Isto é uma característica central do Jenkins. Jenkins vai construir o seu projecto, combinando qualquer SCM com qualquer sistema de compilação e isto pode ser usado mesmo em qualquer outra compilação de software.
00	Maven project Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
	Pipeline Orchestrates long-running activities that can span multiple build slaves. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
	Construir Build projeto com multi-configurações Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
	Folder Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
	GitHub Organization Scans a GitHub organization (or user account) for all repositories matching some defined markers.
T	Multibranch Pipeline Creates a set of Pipeline projects according to detected branches in one SCM repository.
Mo	MockFolder
Mw	MockFolder with security control
if you w	vant to create a new item from other existing, you can use this option:
ок	ppy from Type to autocomplete

Here is a simple example of a pipeline script using the Xray: Cucumber Features Export Task

Jenkinsfile example (declarative)

Learn more

For Pipeline specific documentation, you may want to give a look at:

- https://jenkins.io/doc/book/pipeline/
- https://jenkins.io/doc/book/pipeline/syntax/#declarative-pipeline
- https://github.com/jenkinsci/pipeline-plugin/blob/master/TUTORIAL.md

Examples

JUnit

This is a declarative example, for JUnit based tests.

```
Jenkinsfile example (declarative)
pipeline {
    agent any
   stages {
       stage('Compile'){
            steps {
                checkout([$class: 'GitSCM', branches: [[name: '*/master']], doGenerateSubmoduleConfigurations:
false, extensions: [[$class: 'SparseCheckoutPaths', sparseCheckoutPaths: [[path: 'java-junit-calc/']]]],
submoduleCfg: [], userRemoteConfigs: [[credentialsId: 'a3285253-a867-4ea7-a843-da349fd36490', url:
'ssh://git@localhost/home/git/repos/automation-samples.git']]])
                sh "mvn clean compile -f java-junit-calc/pom.xml"
        }
        stage('Test'){
            steps{
                sh "mvn test -f java-junit-calc/pom.xml"
            }
        }
        stage('Import results to Xray') {
            steps {
                step([$class: 'XrayImportBuilder', endpointName: '/junit', fixVersion: 'v3.0', importFilePath:
'java-junit-calc/target/surefire-reports/*.xml', importToSameExecution: 'true', projectKey: 'CALC',
serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
            }
        }
    }
}
```

This is a declarative example, for Cucumber tests using the "standard" workflow (see Testing with Cucumber).

```
Jenkinsfile example (declarative)
pipeline {
   agent any
   stages {
       stage('Export features from Xray'){
            steps {
               checkout([$class: 'GitSCM', branches: [[name: '*/master']], doGenerateSubmoduleConfigurations:
false, extensions: [], submoduleCfg: [], userRemoteConfigs: [[credentialsId: 'a3285253-a867-4ea7-a843-
da349fd36490', url: 'ssh://git@localhost/home/git/repos/automation-samples.git']])
                step([$class: 'XrayExportBuilder', filePath: 'cucumber_xray_tests/features', filter: '11400',
serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
            }
       }
       stage('Test'){
           steps{
                sh "cd cucumber_xray_tests && cucumber -x -f json -o data.json"
            }
        }
       stage('Import results to Xray') {
            steps {
                step([$class: 'XrayImportBuilder', endpointName: '/cucumber', importFilePath:
'cucumber_xray_tests/data.json', serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
           }
       }
    }
}
```

Cucumber ("VCS/Git based" workflow)

This is a declarative example, for Cucumber tests using the "VCS/Git based" workflow (see Testing with Cucumber).

Jenkinsfile example (declarative)

```
pipeline {
   agent any
    stages {
        stage('Synch (update) recent tests to Xray'){
           steps {
               checkout([$class: 'GitSCM', branches: [[name: '*/master']], doGenerateSubmoduleConfigurations:
false, extensions: [], submoduleCfg: [], userRemoteConfigs: [[credentialsId: 'a3285253-a867-4ea7-a843-
da349fd36490', url: 'ssh://git@localhost/home/git/repos/automation-samples.git']]])
                step([$class: 'XrayImportFeatureBuilder', folderPath: 'cucumber_xray_tests/features',
lastModified: '10', projectKey: 'CALC', serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
           }
        }
       stage('Export features from Xray'){
           steps {
                checkout([$class: 'GitSCM', branches: [[name: '*/master']], doGenerateSubmoduleConfigurations:
false, extensions: [], submoduleCfg: [], userRemoteConfigs: [[credentialsId: 'a3285253-a867-4ea7-a843-
da349fd36490', url: 'ssh://git@localhost/home/git/repos/automation-samples.git']]))
                sh "rm -rf cucumber_xray_tests/features"
                step([$class: 'XrayExportBuilder', filePath: 'cucumber_xray_tests/features', filter: '11400',
serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
           }
        }
        stage('Test'){
           steps{
                sh "cd cucumber_xray_tests && cucumber -x -f json -o data.json"
            }
        }
       stage('Import results to Xray') {
           steps {
               step([$class: 'XrayImportBuilder', endpointName: '/cucumber', importFilePath:
'cucumber_xray_tests/data.json', serverInstance: '552d0cb6-6f8d-48ba-bbad-50e94f39b722'])
           }
        }
    }
}
```

Recommendations

You can automatically generate your step scripts using the Jenkins Snippet Generator.

	ard		-	
Status		Pipeline My Pipeline	e Demo	
Changes				
Build Now				
Eliminar Pipeline		.0000000-		
Configurar		Recent Changes		
-				
Full Stage View		Stage View		
Pipeline Syntax				
Histórico de b find	ouilds <u>tendência</u>		Declarative: Checkout SCM	Export Cucumber
#5 12/jul/2018	10-54	x		
_		Average stage times: (Average <u>full</u> run time: ~9s)	4s	673ms
#4 12/jul/2018				
#3 12/jul/2018	10:49	(些)		
Jenkins	unheu		4 Resquisar	② Xavier Ferr
ack	Overview	the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, py and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are	configure it, click Generate Pipeline Script, and e optional and can be omitted in your script, leave	I you will see a Pipeline Script statement to ing them at default values.)
s > My Pipeline Demo > Pipeline S ack aippet Generator	This Snippet Generator will help you learn			
i My Pipeline Demo Pipeline S ik ippet Generator ip Reference	This Snippet Generator will help you learn the step with that configuration. You may con Steps			
My Pipeline Demo Pipeline S My preference bal Variables Reference ine Documentation	This Snippet Generator will help you learn the step with that configuration. You may co			
My Pipeline Demo Pipeline S k pet Generator perference bal Variables Reference ine Documentation	This Snippet Generator will help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step			
My Pipeline Demo Pipeline S My preference bal Variables Reference ine Documentation	This Snippet Generator will help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step Build Step Xray. Cucumbe	er Features Export Task		
My Pipeline Demo Pipeline S My preference bal Variables Reference ine Documentation	This Solpect Generator vill help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step Build Step xray: Cucumbe JIRA Instance	er Features Export Task		
My Pipeline Demo Pipeline S k pet Generator perference bal Variables Reference ine Documentation	This Salppet Generator will help you learn the step with that configuration. You may co Steps Sample Step step. General Build Step Build Step Xray: Occumbe JIRA Instance Issues: Filter:	er Features Export Task Xray instance		
My Pipeline Dermo Pipeline S ck protection Pipel Cenerator p Reference abal Variables Reference line Documentation	This Snippet Generator will help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step Build Step Xray: Cucumbe JIRA Instance Issues: Filter: File Path:	er Features Export Task Xray instance IF-1 Veatures		
My Pipeline Demo Pipeline S ck ipped Generator preference bal Variables Reference line Documentation	This Snippet Generator will help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step Build Step Xray: Cucumbe JIRA Instance Issues: Filter: File Path:	er Features Export Task Xray instance IF-1		
s → My Pipeline Demo → Pipeline S ick	This Snippet Generator will help you learn the step with that configuration. You may co Steps Sample Step step: General Build Step Build Step Xray: Cucumbe JIRA Instance Issues: Filter: File Path:	er Features Export Task Xray instance IF-1 Veatures		

This is the simplest way to generate your step script, and we strongly recommend the use of this snippet due to the complexity of some task related parameters.

Troubleshooting

The build process is failing with status code 403

When you check the log, it has the following:





By default, when you successively try to log into Jira with the wrong credentials, the Jira instance will prompt you to provide a CAPTCHA the next time you try to log in. It is not possible to provide this information via the build process, so it will fail with status code **403 Forbidden**.

You will need to log into Jira via the browser and provide the CAPTCHA.

₩JIRA Dashboards - DbConsole	Search	٩	5	? •	Log In
Welcome to JIRA					
O Sorry, your username and password are incorrect - please try again.					
Username CL_user					
Password					
Bernember my login on this computer					
S.					
kinying					
Not a member? To request an account, please contact your JIRA administrators.					
Log In Can't access your account?					

If you are a Jira administrator, you can go to Jira administration > User Management and reset the failed login.

CI_User	CI_User user@example.com	Count: 9 Last: Today 1:55 PM	jira-software-users	JIRA Software	JIRA Internal Directory	Edit •••
	-	CAPTCHA required at next login Last failed login: Today 1:57 PM Current failed logins: 7 Total failed logins: 21 Reset failed login count				