

# Deploying RMsis on JIRA Server

## Deploying RMsis on JIRA Server

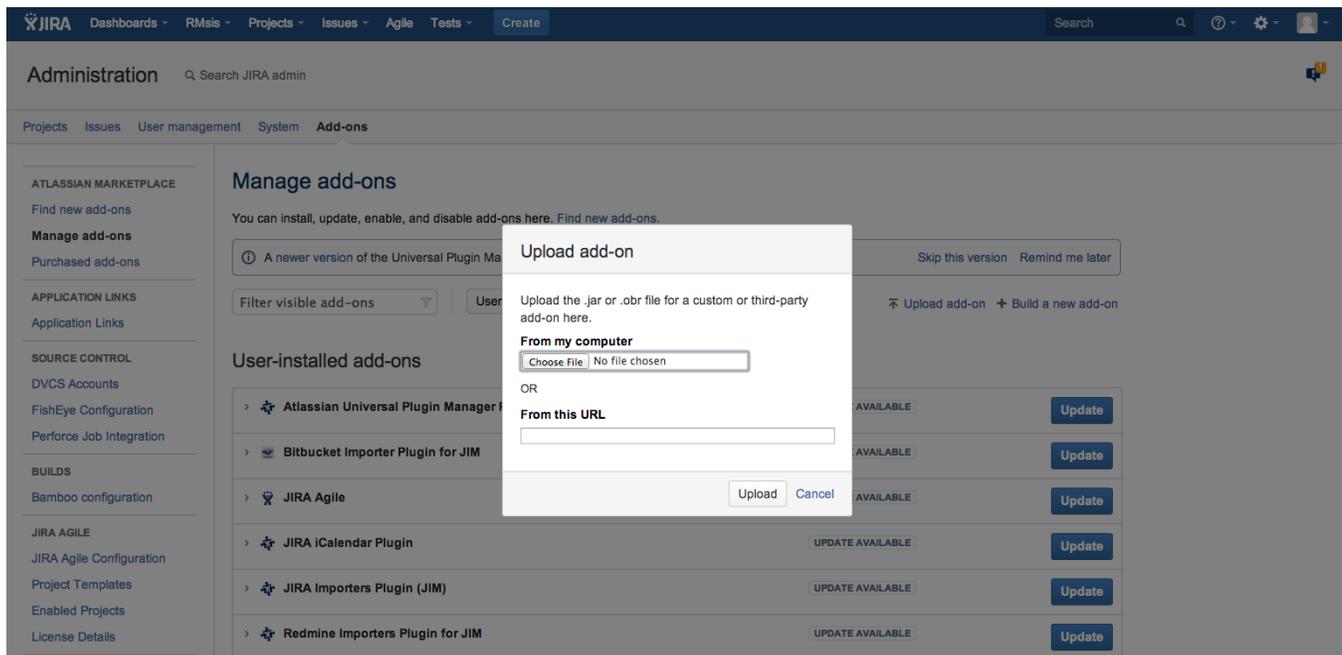
RMsis installation is essentially in two parts

- **Install RMsis**
  - RMsis plugin can be installed through JIRA Universal Plugin Manager.
- **Configure RMsis**
  - After installation of RMsis, RMsis tab will appear in Jira menu bar.
  - Login as administrator in JIRA and then click on RMsis menu to configure RMsis.

The entire sequence of installation process is elaborated below:

### Step 1 : Install using JIRA Universal Plugin Manager

- Login as JIRA administrator and select Add-ons > Manage add-ons
- Get the URL for the desired version of RMsis from <http://products.optimizory.com/rmsis/download>
- Click on Upload add-on and enter the URL when prompted.



### Step 2 : Configure RMsis Home Page

- After clicking on RMsis, you will be redirected to the installation welcome page, as shown below

# RMsis Setup

## Key Points

Here is a brief explanation of how RMsis works.

- RMsis has two parts - A plugin and a server
- When the RMsis plugin is installed, it also starts RMsis server (with embedded Tomcat).
- So effectively we have two processes running (with their own instances of Tomcat)
  - JIRA Application with RMsis Plugin
  - RMsis Application
- During the installation process, installer will collect RMsis
  - database configuration,
  - mail configuration, and
  - server and network configuration.
- Finally, installer will spawn RMsis process.
- For failed installations, users can execute diagnostics for some common problems.
- **Warning** In case, installer fails to spawn RMsis process, Administrator may need to stop and restart JIRA.

**BEGIN INSTALLATION**

- Once you choose an option to **Begin Installation**, you will be redirected to RMsis Home Settings page.
- In this step, RMsis will create RMsis Home directory to store backups, configurations (jdbc, mail etc.), logs etc.
- Take a note of the information provided and click on next to move to the next step.

# RMsis Setup

➤ **RMsis Home Settings**   ➤ Database Settings   ➤ Mail Settings   ➤ Server Settings   ➤ Finish

- ✓ **Logs directory**  
/Users/deepanshu/tools/jira-home/atlassian-jira-6.3-standalone/rmsis/logs
- ✓ **Configuration directory**  
/Users/deepanshu/tools/jira-home/atlassian-jira-6.3-standalone/rmsis/conf
- ✓ **Backups directory**  
/Users/deepanshu/tools/jira-home/atlassian-jira-6.3-standalone/rmsis/backups
- ✓ **RMsis Home directory**  
/Users/deepanshu/tools/jira-home/atlassian-jira-6.3-standalone/rmsis
- ✓ **DB directory**  
/Users/deepanshu/tools/jira-home/atlassian-jira-6.3-standalone/rmsis/db

**NEXT ➤**

## Step 3 : Configure RMsis Database

- At present, RMsis supports MySQL, Postgres, MSSQL and Oracle databases
- Create a database in either MySQL / Postgres / MSSQL/ Oracle and specify database connection details, as shown below

Jira Software Dashboards RMsis Projects Issues Create Search

### RMsis Setup

RMsis Home Settings Database Settings Mail Settings Server Settings Finish

RMsis uses its own separate database, Please do not provide JIRA database details here.

**Database Type** MySQL/MariaD

**Hostname** localhost Hostname or the IP address of the database

**Port** 3306 TCP port number of the database server  
default, MySQL:3306, MSSQL:1433, PostgreSQL:5432 & Oracle:1521

**Database** rmsis Name of database to connect

**Username** root Username to access the database

**Password** \*\*\*\*\* Password to access the database

TEST CONNECTION TEST AND SAVE »

#### Notes

1. RMsis Database must be different from JIRA Database.
2. You can use different database types for JIRA and RMsis e.g. MySQL for JIRA and Postgres for RMsis.

### Step 3.2 : Test Database Configuration

- After filling the database details, you can check the database connection by clicking on TEST CONNECTION button.

### Step 4 : Configure Mail

- You can either disable OR configure your mail settings in this step.

#### Step 4.1 : Enter Mail Configuration

- The details are shown in the following screens

## RMsis Setup

1 RMsis Home Settings 2 Database Settings 3 Mail Settings 4 Server Settings 5 Finish

Email Notifications

Disable

Enable

From Address

The default from address to send mail (be sure that this email address is allowed to send mail through specified server)

Hostname

A send email notification via SMTP server, enter the host name of the SMTP server

Protocol



The mail protocol to use

SMTP Port

Optional - SMTP port number to use.  
default: 25

Timeout

Timeout in millisecond, 0 for infinite

TLS

Optional - the mail server requires the use of TLS security.

Username

Optional - if you use authenticated SMTP to send email, enter your username.

Password

Optional - as above, enter your password if you use authenticated SMTP.

Send a Test Mail to

SEND TEST MAIL

TEST CONNECTION

TEST AND SAVE »

### Step 4.2 : Test Mail Configuration

Once the Mail Configuration is entered, user has an option to test

- Connection to Mail Server
- Send a Test Mail to ensure that the mail has been correctly configured

### Step 5 :Server Settings

- By default RMsis Server will run with http on port 3060 without any proxy settings.
- User has an option to specify the Minimum and Maximum memory used by the JVM. 256 MB and 512 MB are the minimum acceptable limits here.

# RMsis Setup

RMsis Home Settings Database Settings Mail Settings **Server Settings** Finish

Specify RMsis  
Server Scheme

http  https

RMsis Host Name

localhost

Host name or IP address of the RMsis Server  
e.g. myhost.example.com, 192.168.1.5 etc.

RMsis Port

3060

Port number for RMsis Server

Enable Reverse  
Proxy

JVM Min Memory

256

MB

JVM Max Memory

1024

MB

JIRA Internal URL

- The URL of machine on which JIRA server is running.
- If JIRA is running behind a reverse proxy server, then make sure, you are not writing the reverse proxy URL.
- RMsis server communicates with JIRA using JIRA internal URL.

http://localhost:8080/

TEST CONNECTION

NEXT

- To run RMsis Server on https, select the option **https** from "Specify RMsis Server scheme".
- After selecting https, RMsis will ask for "Key Alias", "Keystore File" and "Keystore Password", where
  - **Keystore Type:** The type of keystore file to be used for the server certificate. Tomcat operates only on JKS, PKCS11 or PKCS12 format keystores.
  - **Key Alias:** The alias used for the server certificate in the keystore.
  - **Keystore File:** The pathname of the keystore file where you have stored the server certificate to be loaded.
  - **Keystore Password:** The password used to access the specified keystore file.

RMSis Server Scheme  http  https

Keystore Type

Key Alias

Keystore File

Keystore Password

RMSis Host Name   
e.g. myhost.example.com, 192.168.1.5 etc.

RMSis Port

Enable Reverse Proxy

JVM Min Memory  MB

JVM Max Memory  MB

JIRA Internal URL   

- The URL of machine on which JIRA server is running.
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- RMSis server communicates with JIRA using JIRA internal URL.

**TEST CONNECTION**

**SAVE CONFIGURATION**

- Reverse Proxy can also be configured for RMSis Server by checking the **Enable Reverse Proxy Settings**.
- RMSis will ask for "Proxy Scheme", "Proxy Host Name" and "Proxy Port", where
  - **Proxy Scheme:** The scheme on which the proxy server is running, can be either http or https.
  - **Proxy Host Name:** The host name or ip address of the proxy server.
  - **Proxy Port:** The port number, on which the proxy server is running.

After configuring reverse proxy, RMSis will use the proxy base url as: **<Proxy Scheme>://<Proxy Host Name>:<Proxy Port>/rm**

Note : If RMSis is configured using reverse proxy, additional command line arguments for reverse proxy scheme, hostname, and port will be displayed with RMSis process.

RMSis Server Scheme  http  https

Keystore Type

Key Alias

Keystore File

Keystore Password

RMSis Host Name   
e.g. myhost.example.com, 192.168.1.5 etc.

RMSis Port

Enable Reverse Proxy

Reverse Proxy Scheme  http  https

Reverse Proxy Host Name   
e.g. myhost.example.com, 192.168.1.5 etc.

Reverse Proxy Port

JVM Min Memory  MB

JVM Max Memory  MB

JIRA Internal URL 

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- If JIRA is running behind a reverse proxy server, then make sure, you are not writing the reverse proxy URL.
- RMSis server communicates with JIRA using JIRA internal URL.

**TEST CONNECTION**

**SAVE CONFIGURATION**

## Step 6 : Deploy RMSis

- In this step, RMSis plugin will install RMSis application with an embedded Tomcat Server.

# RMSis Setup

RMSis Home Settings 
  Database Settings 
  Mail Settings 
  Server Settings 
  Finish

 Please wait. Starting RMSis server ...

- Please wait for some time (It will take one to two minutes). After RMSis server startup, the screen will show :

The screenshot shows the JIRA Administration page for RMsis Setup. The navigation bar includes 'Dashboards', 'RMsis', 'Projects', and 'Issues'. The main heading is 'RMsis Setup'. Below it, a progress bar shows five steps: 'RMsis Home Settings', 'Database Settings', 'Mail Settings', 'Server Settings', and 'Finish'. The 'Finish' step is highlighted with a green checkmark. A message box contains the text: 'RMsis server started successfully. Now click on finish to complete.' A red 'FINISH' button is located at the bottom right of the message box.

- **Congratulations !!! Now RMsis server is running successfully,**
- **Click on FINISH button to complete setup process.**
- **Subsequently, you will be automatically redirected to license page.**

The screenshot shows the JIRA Administration page for the License section. The navigation bar includes 'Dashboards', 'RMsis', 'Projects', and 'Issues'. The main heading is 'License'. A blue box contains the following information: 'System Code for this RMsis instance is 47084501b4d898470e71cb5a93f2d319'. Below this, there are two links: 'Get RMsis Evaluation License Key' and 'OR Buy RMsis Production License Key'. Under the 'Add License' section, there is a text input field labeled 'License Key' and a 'submit' button.

## Re-Initializing RMsis Configuration

In case, you wish to re-initialize RMsis installation (due to some reason), please follow the following steps:

1. Login into JIRA with administrator account.
2. Click on **RMsis (on JIRA Menu Bar) > RMsis Configuration**
  - The following page will appear and you will have an option to change any of the key parameters related
3. In order to completely Reset the RMsis configuration
  - Click on Re-Configure RMsis from the RMsis Configuration in JIRA Menu.
  - Subsequently, you will be automatically redirected to RMsis setup page.
  - Please follow the on screen instructions to configure RMsis.

## RMsis Configuration

- RMsis system code is calculated from base url of RMsis. So change in host name and port number of RMsis Server also changes the RMsis system code and consequently you need to re-generate the license key for RMsis Server.
- Any change in port number will restart RMsis Server.
- In case, you find any issues while working on RMsis, Please write to [support@optimizory.com](mailto:support@optimizory.com). [Send Log Files](#)
- In case, you want to re-configure RMsis, then click here. [Re-Configure RMsis](#)

Server Configuration Database Configuration Mail Configuration

RMsis Server Scheme  http  https

RMsis Host Name

Host name or the IP address of the RMsis Server

e.g. myhost.example.com, 192.168.1.5 etc.

RMsis Port

Port number for RMsis Server

Enable Reverse Proxy

Enable Debugging

JVM Min Memory

 MB

JVM Max Memory

 MB

JIRA Internal URL

- The URL of machine on which JIRA server is running.
- If JIRA is running behind a reverse proxy server, then make sure, you are not writing the reverse proxy URL.
- RMsis server communicates with JIRA using JIRA internal URL.

[TEST CONNECTION](#)

[SAVE CONFIGURATION](#)

### Caution !!!

- Making a change in configuration can lead to loss of data.
- Please make sure that you have noted the current settings and have taken backup of Database.