

## **CROWD SSO(Single sign-on) DOCUMENTATION**

Prior to enable SSO we need to perform some steps that are covered in other crowd documentation for integration of crowd with other atlassian tools and custom tools. So, before referring this doc please go through that doc first and perform all its steps.

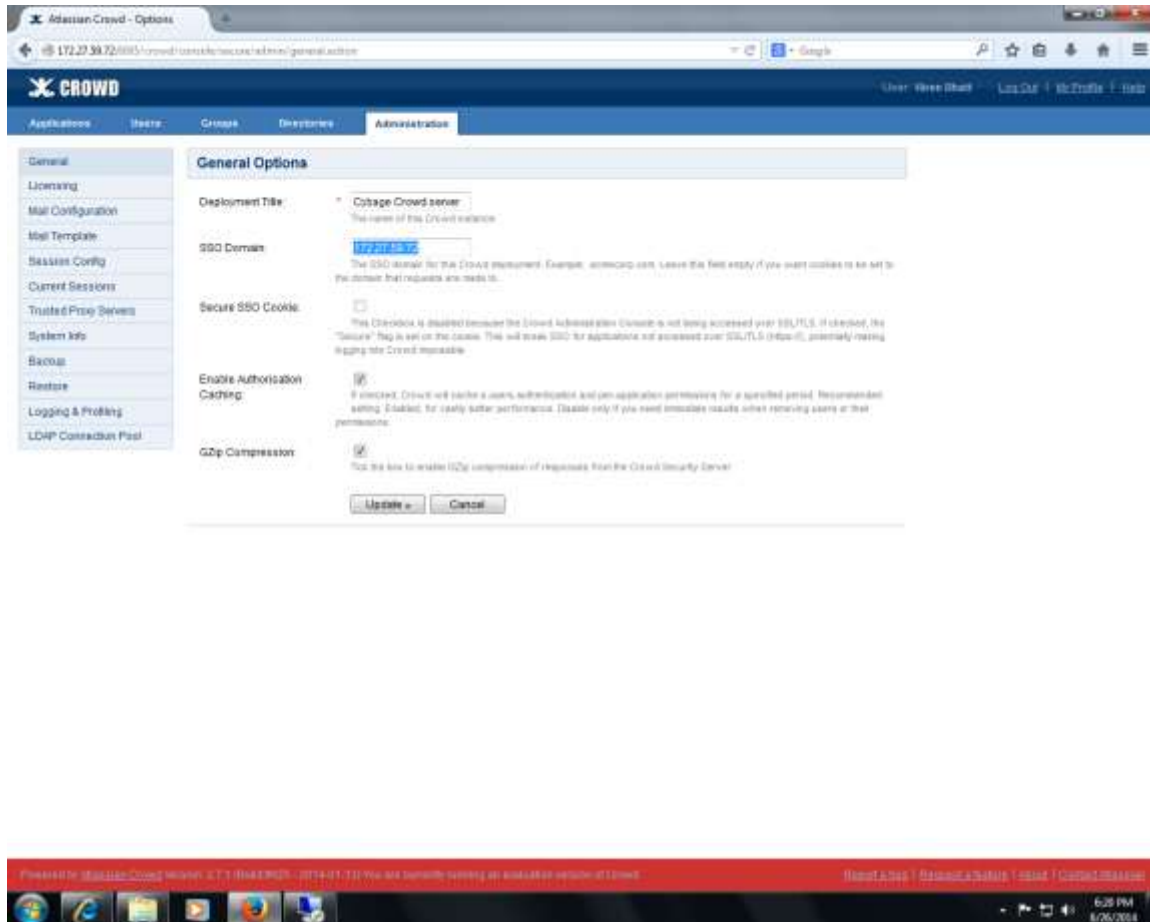
Now, for SSO we need to configure all atlassian tools at UI level and also need to change some configuration files(**Seraph-config.xml**) also into those tools home directory.

Basically all atlassian tools use Seraph for their authentication processes. It is the preferable way to enable authentication process in atlassian tools.

So. Lets start with each tool one by one.

### 1. **Crowd**

- You need to login using admin credentials and then go to  
**Administration->General**
- Now enter IP address of machine or localhost on which all tools are installed in SSO Domain field
- Click on update.



## 2. Confluence

- Open confluence administrators dashboard and add an application link in confluence:-  
Confluence Admin -> Application Link(in Administrative section in Left Bar)

Overview | Configuration | Integrations | The space | Creating a space | Java Intro | CloudCloud | Java Intro | Atlassian | Dashboard

172.27.59.72:8090

You have temporary access to administrative functions. Drop access if you no longer require it. For more information, refer to the documentation.

Confluence Spaces | People | Create

Dashboard

Welcome to Confluence

Confluence is where your team collaborates and shares knowledge — create, share and discuss your files, ideas, minutes, specs, mockups, diagrams, and projects.

Get started

- Create a new space and start creating content.
- Invite your colleagues to join you in Confluence.
- Upload your picture and edit your profile.

Spaces | Pages | Network


Site Spaces [Create Space](#)

- Demonstration Space

Popular | All Updates | Favourite Spaces | Network

Welcome, looks like you're new here

Take a short tour below or get started on the left.



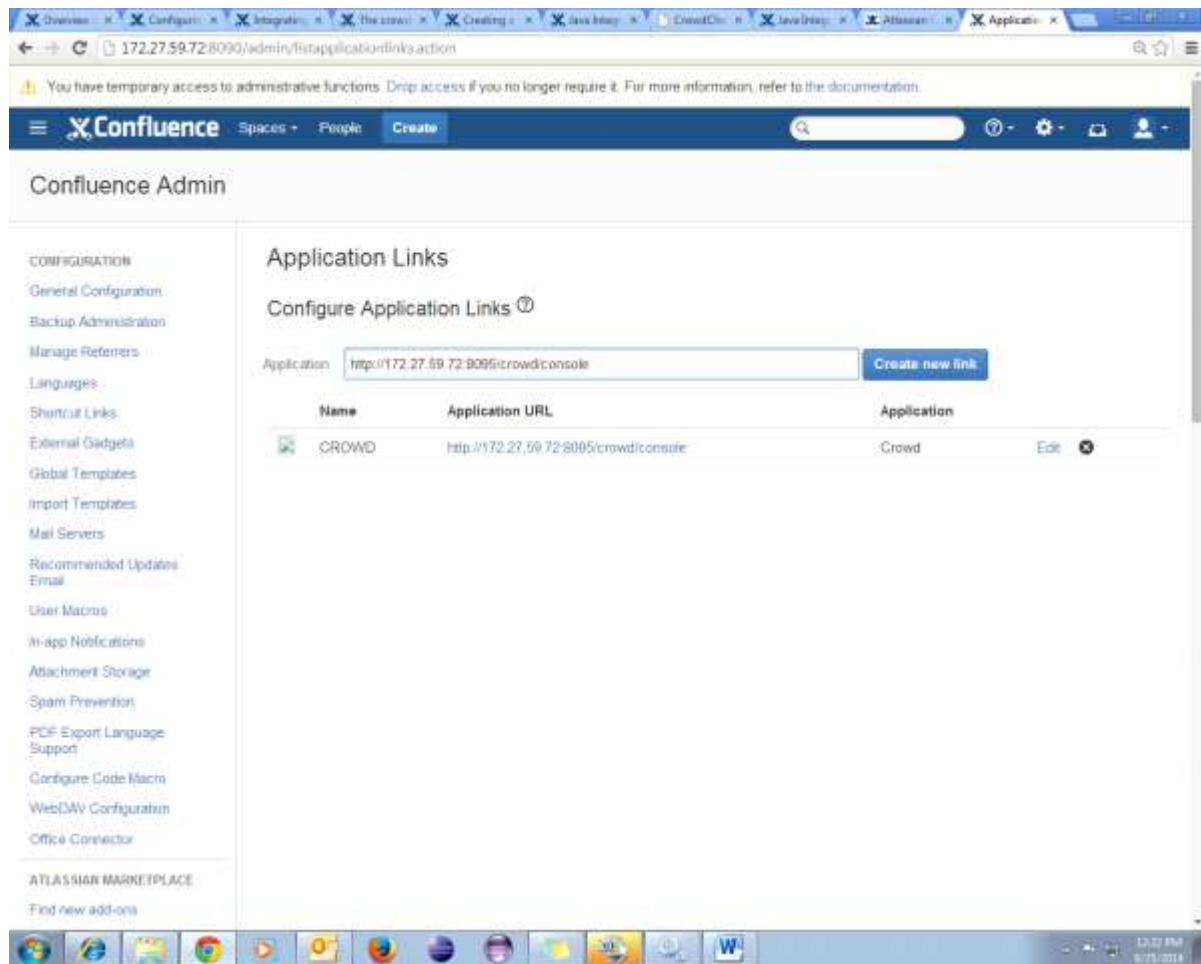
EVALUATION LICENSE Are you enjoying Confluence? Please consider purchasing it today.

Powered by Atlassian Confluence 5.4.4 Team Collaboration Software [Report a bug](#) [Atlassian News](#)

172.27.59.72:8090/atlassian/website/action

12:28 PM 6/25/2014

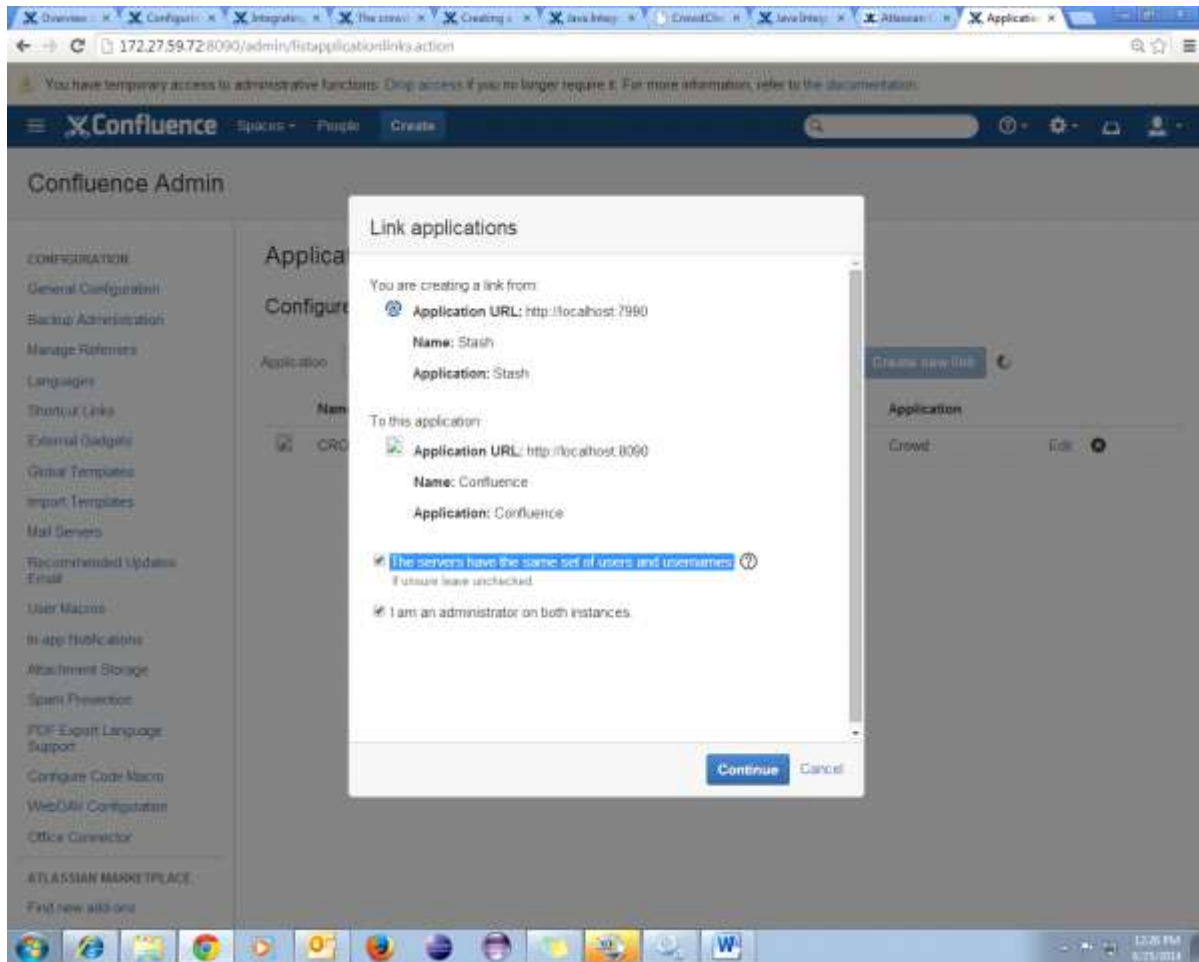




URL:- <http://172.27.59.72:8095/crowd>

Now click **Create new link** button.

Tick on The servers have the same set of users and usernames.



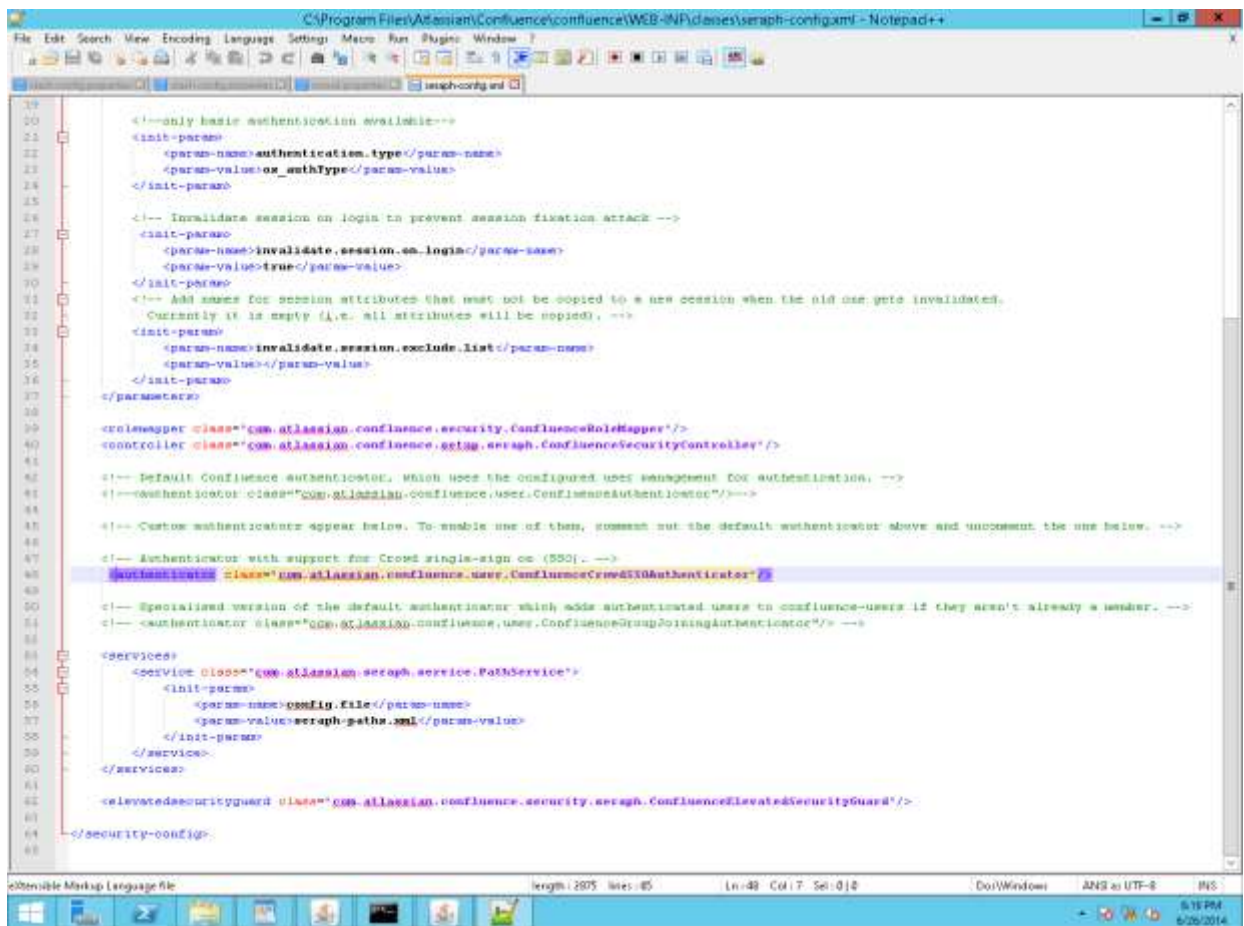
And click on **continue**

- Now, If confluence is running then shut it down.
- Now, edit the file CONFLUENCE/confluence/WEB-INF/classes/seraph-config.xml  
Comment out the line:-

```
<!-- <authenticator class="com.atlassian.confluence.user.ConfluenceAuthenticator"/> -->
```

Uncomment the line:-

```
<authenticator class="com.atlassian.confluence.user.ConfluenceCrowdSSOAuthenticator"/>
```



```
<!--only basic authentication available-->
<init-param>
  <param-name>authentication.type</param-name>
  <param-value>ox_authType</param-value>
</init-param>

<!-- Invalidate session on login to prevent session fixation attack -->
<init-param>
  <param-name>invalidate.session.on.login</param-name>
  <param-value>true</param-value>
</init-param>

<!-- Add names for session attributes that must not be copied to a new session when the old one gets invalidated.
Currently it is empty (i.e. all attributes will be copied). -->
<init-param>
  <param-name>invalidate.session.exclude.list</param-name>
  <param-value></param-value>
</init-param>
</parameters>

<controller class="com.atlassian.confluence.security.ConfluenceRoleMapper"/>
<controller class="com.atlassian.confluence.extra.seraph.ConfluenceSecurityController"/>

<!-- Default Confluence authenticator, which uses the configured user management for authentication. -->
<!-- authenticator class="com.atlassian.confluence.user.ConfluenceAuthenticator"/>

<!-- Custom authenticators appear below. To enable one of them, comment out the default authenticator above and uncomment the one below. -->
<!-- Authenticator with support for Crowd single-sign on (SSO). -->
<authentication class="com.atlassian.confluence.user.ConfluenceCrowdSSOAuthenticator"/>

<!-- Specialized version of the default authenticator which adds authenticated users to confluence-users if they aren't already a member. -->
<!-- authenticator class="com.atlassian.confluence.user.ConfluenceGroupJoiningAuthenticator"/>

<services>
  <service class="com.atlassian.seraph.service.PathService">
    <init-param>
      <param-name>config.file</param-name>
      <param-value>seraph-paths.xml</param-value>
    </init-param>
  </service>
</services>

<elevatedsecurityguard class="com.atlassian.confluence.security.seraph.ConfluenceElevatedSecurityGuard"/>
</security-config>
```

- Copy the **crowd.properties** file from CROWD/client/conf/ to CONFLUENCE/confluence/WEB-INF/classes.

```

1 application.name confluence
2 application.password confluence
3 application.login.url http://172.17.32.71:8095/crowd/login/
4
5 crowd.server.url http://172.17.32.71:8095/crowd/services/
6 crowd.base.url http://172.17.32.71:8095/crowd/
7
8 session.isauthenticated session.isauthenticated
9 session.tokenkey session.tokenkey
10 session.validationinterval 2
11 session.lastvalidation session.lastvalidation
12

```

- Edit CONFLUENCE/confluence/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	confluence The <b>application.name</b> must match the <b>Name</b> that you specified when defining the application in Crowd.
application.password	The <b>application.password</b> must match <b>Password</b> that you specified when defining the application in Crowd.
crowd.base.url	<a href="http://localhost:8095/crowd/">http://localhost:8095/crowd/</a> If your Crowd server's port is configured differently from the default (i.e. 8095), set it accordingly.
session.validationinterval	This is the number of minutes between validation requests, when Crowd validates whether the user is logged in to or out of the Crowd SSO server. Set to the required number of minutes between validation requests. The recommended default is 2 minutes. Setting this value to 1 or higher will increase the performance of Crowd's integration.
	Icon



	Setting this value to 0 will cause the application to perform authentication checks on each request but can cause poor performance.
--	---

You can read more about **crowd.properties** file at url :-

<https://confluence.atlassian.com/display/CROWD/The+crowd.properties+file>

- Now restart the confluence.
- Now your SSO will be in action.

### 3. Jira

- Open jira administrators dashboard and add an application link in jira:-  
administrators->add-ons->application link(in application link section in left bar)

System Dashboard

Introduction

Welcome to RetailSolutions-JIRA

Not sure where to start? Check out the JIRA 101 guide and Atlassian training course.

You can customize this text in the Administration section.

Guide for JIRA Administrators

Getting Started

☒ Create or import your first project to start tracking your work

☒ Create your first JIRA issue to get things done

☒ Build your team by adding users or inviting users

☐ Add your own style by customizing the look and feel

I'm done, hide this list

Do more with JIRA

☒ Install JIRA Agile for project management. Free for 30 days!

☐ Install JIRA Capture, exploratory testing for agile teams. Free for 30 days!

I'm done, hide this list

Administrator documentation

Browse through the admin documentation to learn more about defining your workflows, customizing issue fields and screens, managing users or the time tracking features of JIRA.

If you are migrating from another issue tracker you might want to read our migration guides.

Assigned to Me

There are no issues assigned to you.

Activity Stream

Your Company JIRA

Additional information may be available, please authenticate for more information:

Authenticate with SaaS

Authenticate with Jenkins

Today

Vijeta Angeer resolved EMS-4 - /RSI\_Project/Providing User Management Capabilities (automatically generated from req. spec.)RSI-5:Edit Employee Facility [2] - Executed ON (ISO FORMAT): 2014-06-26 13:17:05 as Fixed

Today 7:20 AM

Comment

Watch

Vijeta Angeer linked 2 issues

EMS-1 - Add Employee

relates to:

EMS-4 - /RSI\_Project/Providing User Management Capabilities (automatically generated from req. spec.)RSI-5:Edit Employee Facility [2] - Executed ON (ISO FORMAT): 2014-06-26 13:17:05

Today 7:19 AM

Narayan Minoo created EMS-4 - /RSI\_Project/Providing User Management Capabilities (automatically generated from req. spec.)RSI-5:Edit Employee Facility [2] - Executed ON (ISO FORMAT): 2014-06-26 13:17:05

Execution ID: 36

Tester: admin

Test Plan: Software Test Plan

Build: Build\_001

Executed ON (ISO FORMAT): 2014-06-26 13:17:05

Execution Status: failed

Failed

Administration

Projects

Add-ons

User Management

Issues

System

Audit Log

System Dashboard

Administration

Projects

Add-ons

User Management

Issues

System

Audit Log

System Dashboard

Administration

Projects

Add-ons

User Management

Issues

System

Audit Log

←

http://192.168.28.113:8080/plugins/servlet/upm/marketplace/featured

Log in - Staff

Jenkins

Find new add-on - Ret...

⌵

You have temporary access to administrative functions. Drop access if you no longer require it. For more information, refer to the documentation.

① Narayan Menon made configuration changes in section 'GreenHopper Epic Label Field Indexing' at 18/Jun/14 2:11 AM. It is recommended that you perform a re-index. For more information please see the JIRA Documentation.  
To perform the re-index now, please go to the 'Indexing' section.  
Note: So that you only have to re-index once, you may wish to complete any other configuration changes before performing the re-index.

⋮ JIRA

Dashboards - Projects - Issues - Agile

Create issue

Quick Search

⌵

⌵

Administration

Search JIRA admin

⌵

Projects

Add-ons

User Management

Issues

System

Audit Log

ATLASSIAN MARKETPLACE

Find new add-ons

Manage add-ons

Purchased add-ons

APPLICATION LINKS

Application Links

SOURCE CONTROL

SVN Accounts

FishEye Configuration

Perforce Job Integration

BUILDS

Bamboo configuration

Jenkins Configuration

JIRA AGILE

JIRA Agile Configuration

Atlassian Marketplace for JIRA

The Atlassian Marketplace server is not reachable. To avoid problems when loading this page, you can disable the connection to the Marketplace server. [Click here for more information...](#)

CLI Plugins

Run Atlassian CLI Plugins

Access to CLI Plugins

Workflow

Run CLI Plugins

ictime

Time Tracking

Time Planning

Reporting

Accounting

Search the Marketplace

Staff-picked

All categories

Paid or free

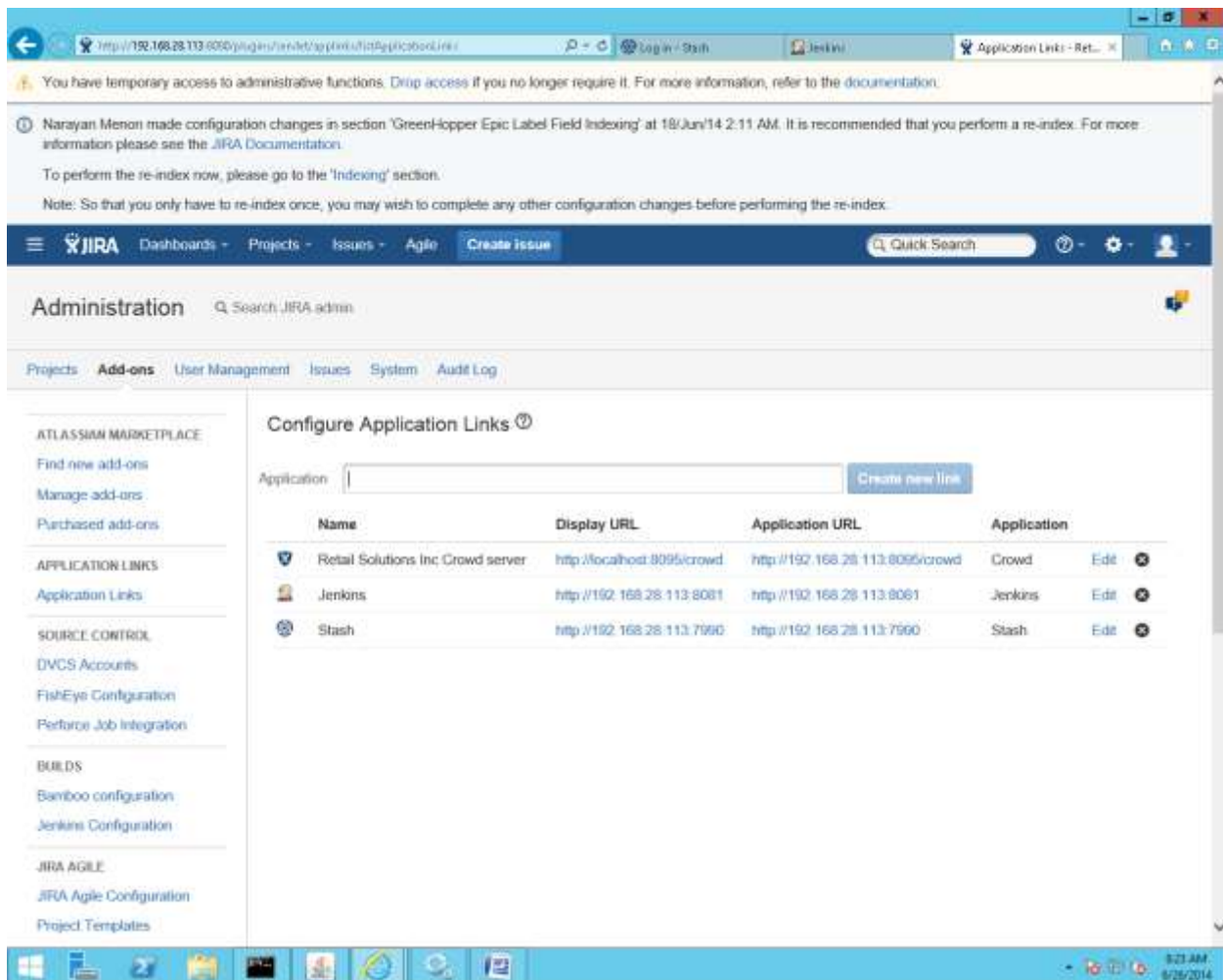
atching your search criteria are available for installation in your JIRA instance. You can build your own!

http://192.168.28.113:8080/plugins/servlet/upm/links/16ApplicationLinks

⌵

Windows Taskbar

8:21 AM 9/28/2014



URL:- <http://172.27.59.72:8095/crowd>

Now click **Create new link** button.

Tick on The servers have the same set of users and usernames.

And click on **continue**

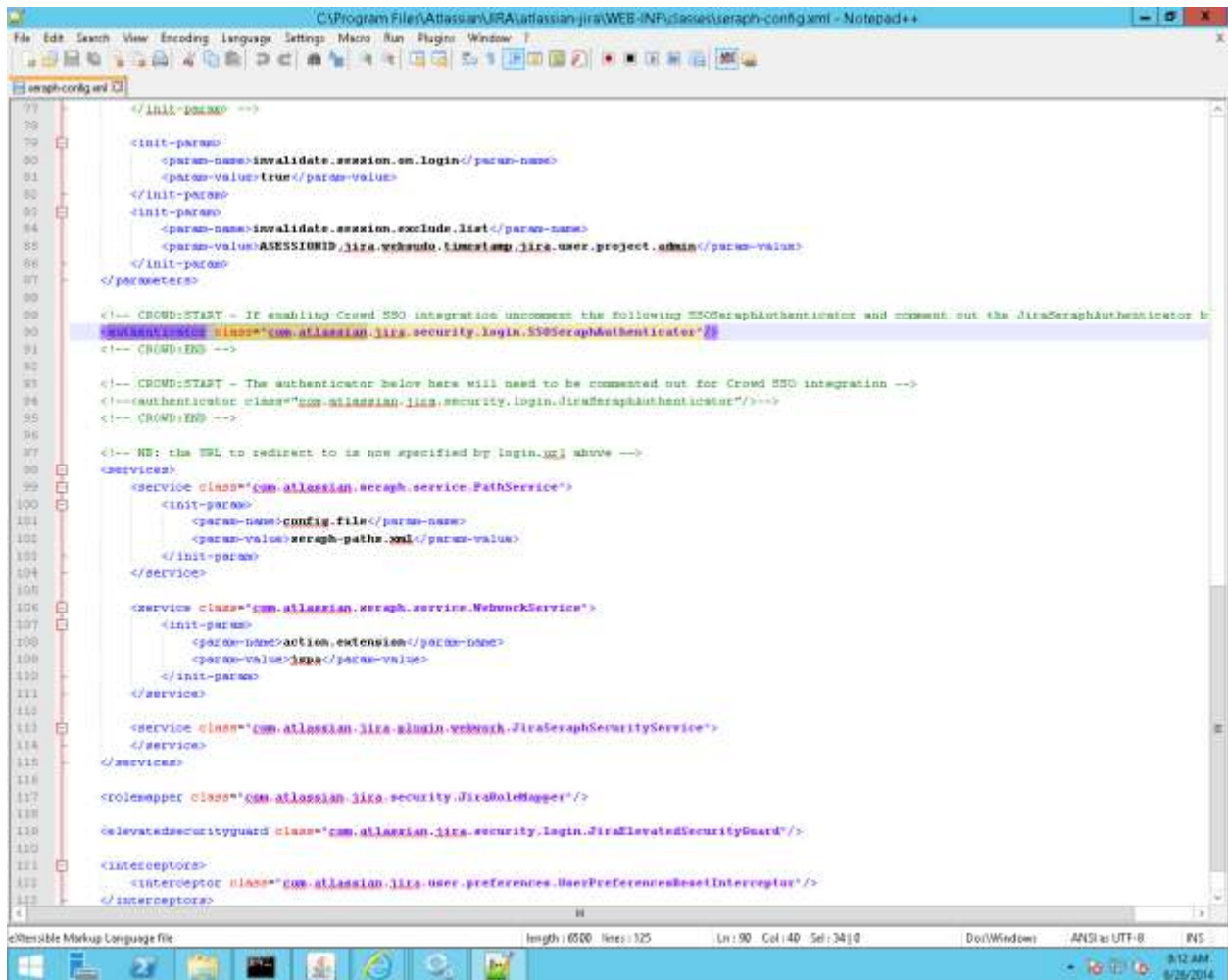
- If Jira is running shut it down.
- Now, edit the file `JIRA/atlassian-jira/WEB-INF/classes/seraph-config.xml` file.

Comment out the line:-

```
<!-- <authenticator
class="com.atlassian.jira.security.login.JiraSeraphAuthenticator"/>-->
```

Uncomment the line:-

```
<authenticator class="com.atlassian.jira.security.login.SSOSeraphAuthenticator"/>
```



```
77 </init-param> -->
78
79 <init-param>
80   <param-name>invalidate.session.on.login</param-name>
81   <param-value>true</param-value>
82 </init-param>
83
84 <init-param>
85   <param-name>invalidate.session.exclude.list</param-name>
86   <param-value>SESSIONID,jira.version.timestamp,jira.user.project.admin</param-value>
87 </init-param>
88 </parameters>
89
90 <!-- CROWD:START - If enabling Crowd SSO integration uncomment the following SSOSeraphAuthenticator and comment out the JiraSeraphAuthenticator below -->
91 <authenticator class="com.atlassian.jira.security.login.SSOSeraphAuthenticator"/>
92 <!-- CROWD:END -->
93
94 <!-- CROWD:START - The authenticator below here will need to be commented out for Crowd SSO integration -->
95 <!--authenticator class="com.atlassian.jira.security.login.JiraSeraphAuthenticator"/>-->
96 <!-- CROWD:END -->
97
98 <!-- NB: the URL to redirect to is now specified by login.url above -->
99 <services>
100   <service class="com.atlassian.seraph.service.PathService">
101     <init-param>
102       <param-name>config.file</param-name>
103       <param-value>seraph-path.xml</param-value>
104     </init-param>
105   </service>
106
107   <service class="com.atlassian.seraph.service.NebuchService">
108     <init-param>
109       <param-name>action.extension</param-name>
110       <param-value>jsps</param-value>
111     </init-param>
112   </service>
113
114   <service class="com.atlassian.jira.plugin.webwork.JiraSeraphSecurityService">
115   </service>
116 </services>
117
118 <rolemapper class="com.atlassian.jira.security.JiraRoleMapper"/>
119
120 <elevatedsecurityguard class="com.atlassian.jira.security.login.JiraElevatedSecurityGuard"/>
121
122 <interceptors>
123   <interceptor class="com.atlassian.jira.user.preferences.UserPreferencesResetInterceptor"/>
124 </interceptors>
```

- Copy the **crowd.properties** file from CROWD/client/conf/ to JIRA/atlassian-jira/WEB-INF/classes.

```

1 application.name=jira
2 application.password=jira
3 application.login.url=http://192.168.26.113:8080/
4
5 crowd.server.url=http://192.168.26.113:8095/crowd/services/
6 crowd.base.url=http://192.168.26.113:8095/crowd/
7
8 session.isauthenticated=session.isauthenticated
9 session.tokenkey=session.tokenkey
10 session.validationinterval=0
11 session.lastvalidation=session.lastvalidation
12

```

- Edit JIRA/atlassian-jira/WEB-INF/classes/crowd.properties. Change the following properties:

Key	Value
application.name	jira The application name must match the name that you specified when you defined the application in Crowd
application.password	The password must match the one that you specified when you defined the application in Crowd
application.login.url	This should be set to the base URL of your JIRA server. Crowd will redirect users here if they need to authenticate.
crowd.base.url	<u><a href="http://localhost:8095/crowd/">http://localhost:8095/crowd/</a></u> If your Crowd server's port is configured differently from the default (i.e. 8095), set it accordingly.  crowd.base.url must be the same URL used to access Crowd in your Browser.
session.validationinterval	Set to 0, if you want authentication checks to occur on each request. Otherwise set to the number of minutes between request to validate if the user is logged in or out of the Crowd SSO server. Setting this value to 1 or

	higher will increase the performance of Crowd's integration.
--	--

You can read more about **crowd.properties** file at url :-

<https://confluence.atlassian.com/display/CROWD/The+crowd.properties+file>

- Now restart the jira.
- Now your SSO will be in action.

#### 4. Stash

- Open Stash administrators dashboard and add an application link in Stash:-  
Administration -> Application Link(in Setting section in Left Bar)


Overview of SSD - Crea...Configuring the Searc...Integrating Crowd with...Connecting Stash to Co...The crowd.properties fi...Projects - Stash

172.27.59.72:7990/projects

Find a repositoryAdministration


StashProjectsRepositories

ProjectsCreate project

Project	Key	Description
 Test_PHP_Project	TPP	This project is created to test Bamboo build


Getting started

All the information you need to get started in Stash.




Branching and forking

Learn about Git workflows for Enterprise teams.




API

Customise Stash via the API and plugin framework.




Administering Stash

Configure Stash for your Enterprise teams.




Git repository management powered by a free Atlassian Stash evaluation license

[Atlassian Stash v2.12.1](#) · [Documentation](#) · [Contact Support](#) · [Request a feature](#) · [About](#) · [Contact Atlassian](#)



172.27.59.72:7990/servers



8:42 PM6/25/2014



Administration - Stash

172.27.59.72:7990/admin

Stash Projects Repositories Find a repository

## Administration

Overview

ACCOUNTS

- Users
- Groups
- Global permissions
- Authentication
- Avatars
- User Directories

SETTINGS

- Server settings
- Database
- Application Navigator
- Application Links
- Mail server
- Licensing

ADD-ONS

- Find new add-ons
- Manage add-ons
- Purchased add-ons

SUPPORT

- Atlassian Support Tools
- Logging and profiling

### Accounts

- Users**  
Edit individual user details, passwords and groups membership.
- Groups**  
Create groups and manage the users within each group.
- Global permissions**  
Configure global user permissions.
- Authentication**  
Configure access, privacy and spam prevention settings.
- Avatars**  
Configure user avatar settings.
- User Directories**  
Connect Stash to user directory servers - Active Directory, Crowd, LDAP and JIRA.

### Add-ons

- Find new add-ons**  
Find and install add-ons from the Atlassian Marketplace.
- Manage add-ons**  
Install, update, enable, and disable add-ons.
- Purchased add-ons**

### Settings

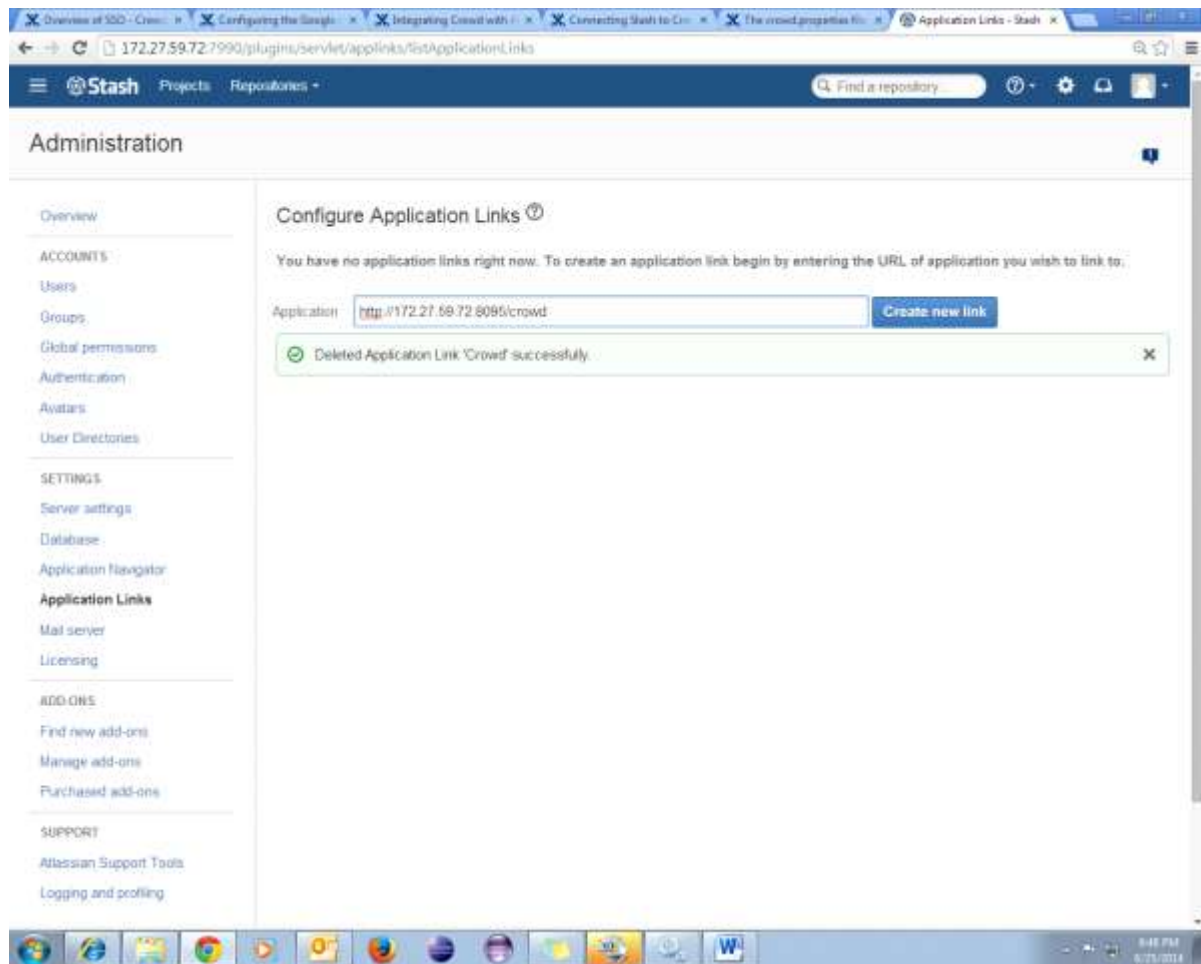
- Server settings**  
Configure SSH and other server settings.
- Database**  
We recommend migrating to an external database for production use.
- Application Navigator**  
Add links to the Application Navigator.
- Application Links**  
Configure links to other applications, including Atlassian products.
- Mail server**  
No mail server is configured. Notifications will not be sent.
- Licensing**  
View and configure license information.

### Support

- Atlassian Support Tools**  
Provides tools to detect problems and get in touch with support.
- Logging and profiling**  
Configure logging and profiling.

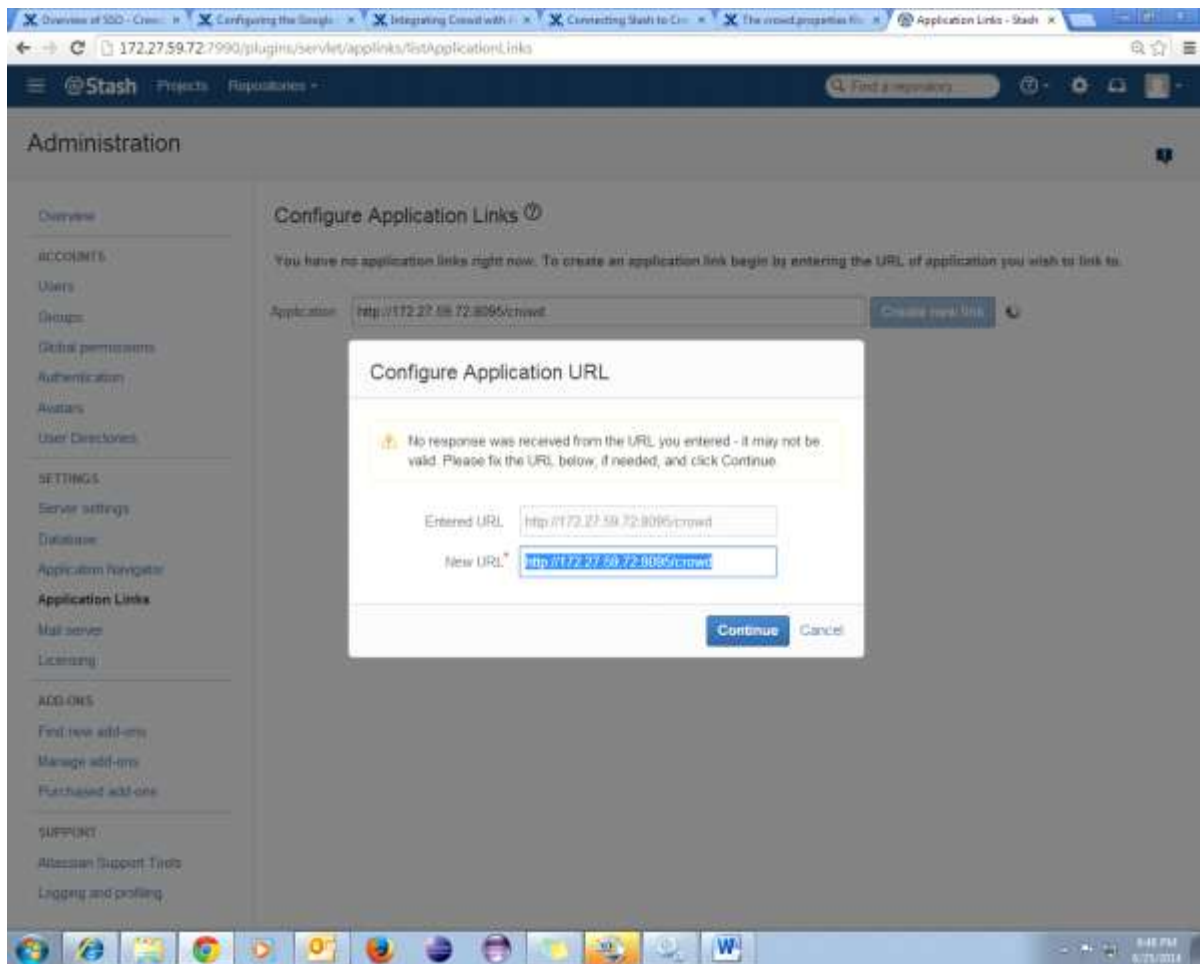
172.27.59.72:7990/projects/10000/applications/10000/applicationLinks

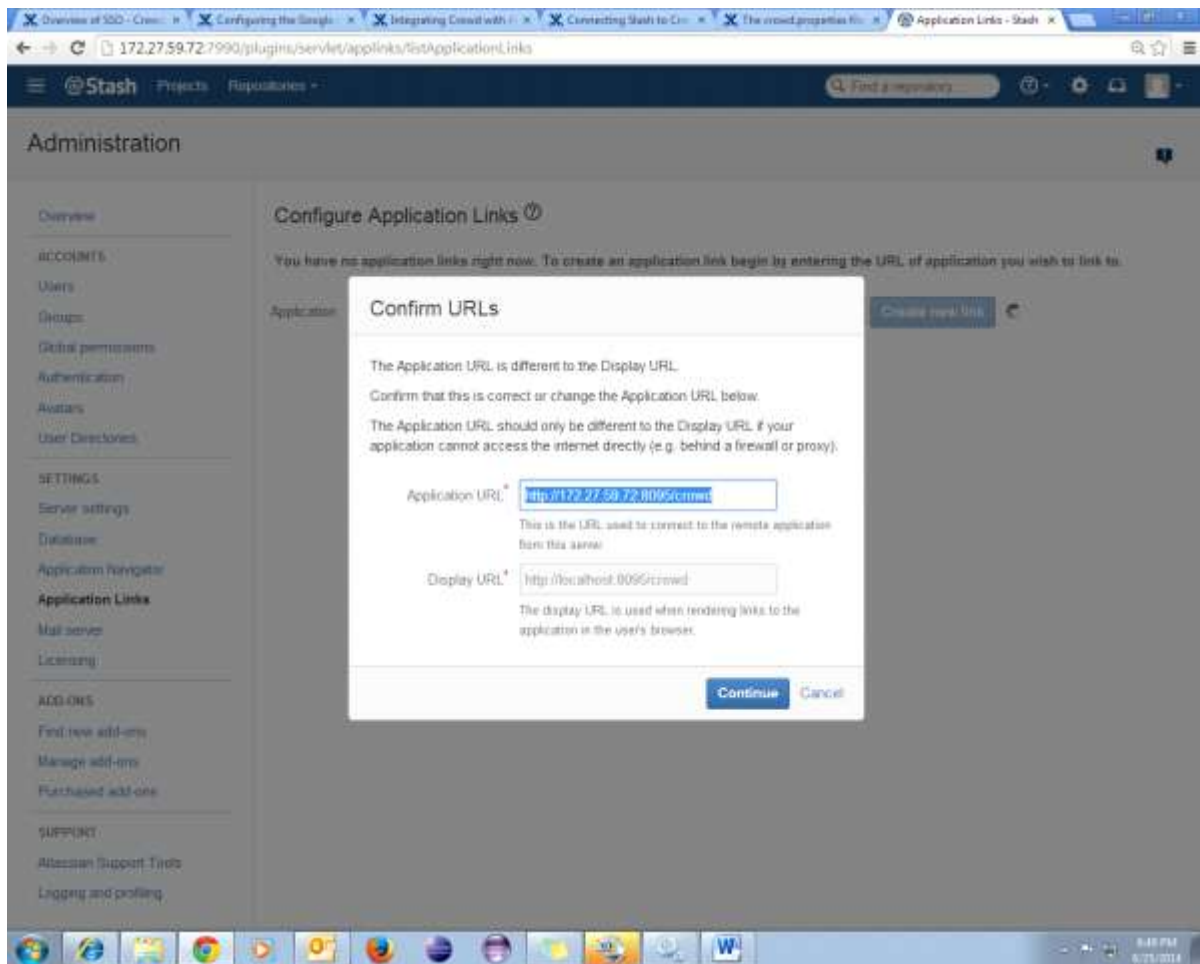
8:42 PM 6/25/2014



URL:- <http://172.27.59.72:8095/crowd>

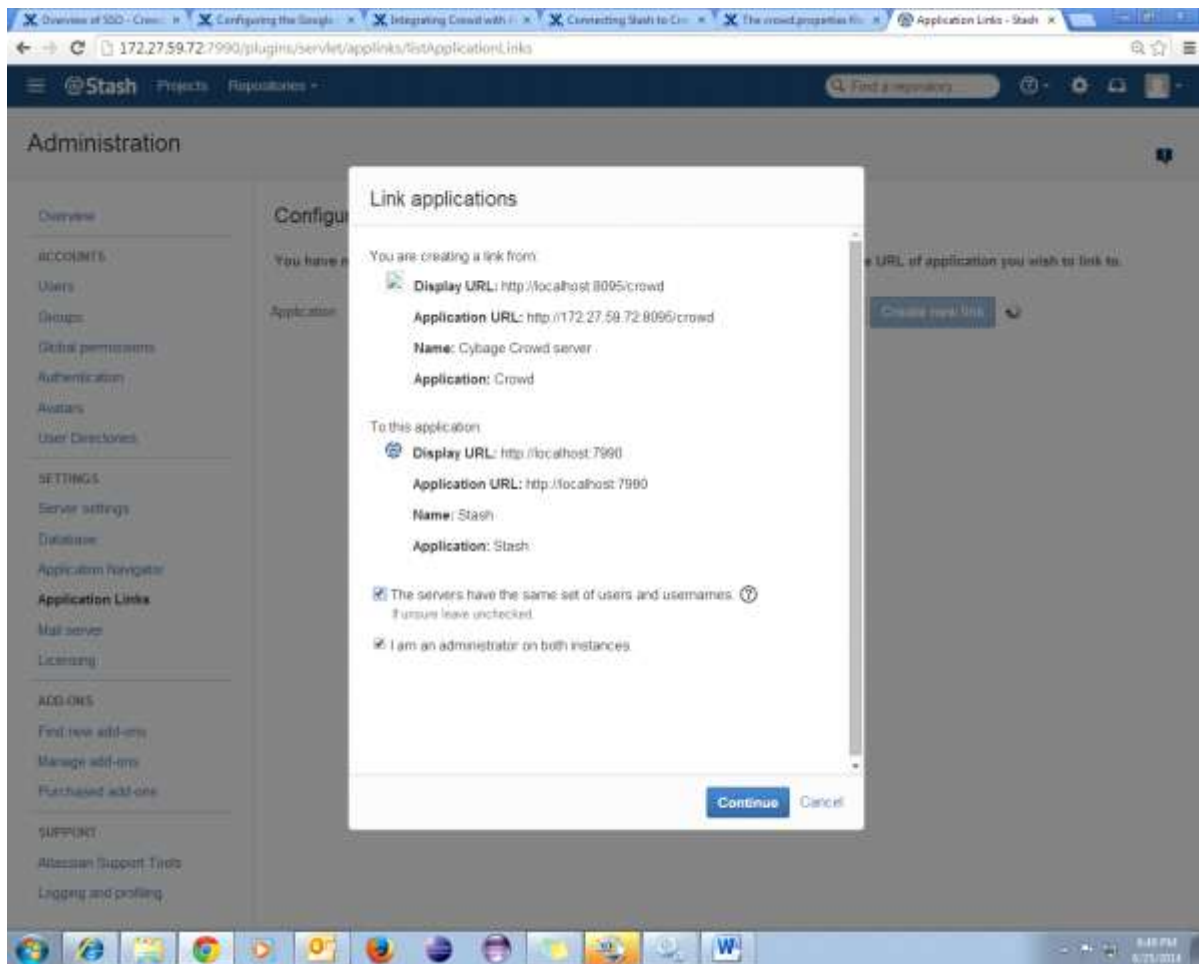
Now click **Create new link** button.





Tick on The servers have the same set of users and usernames.

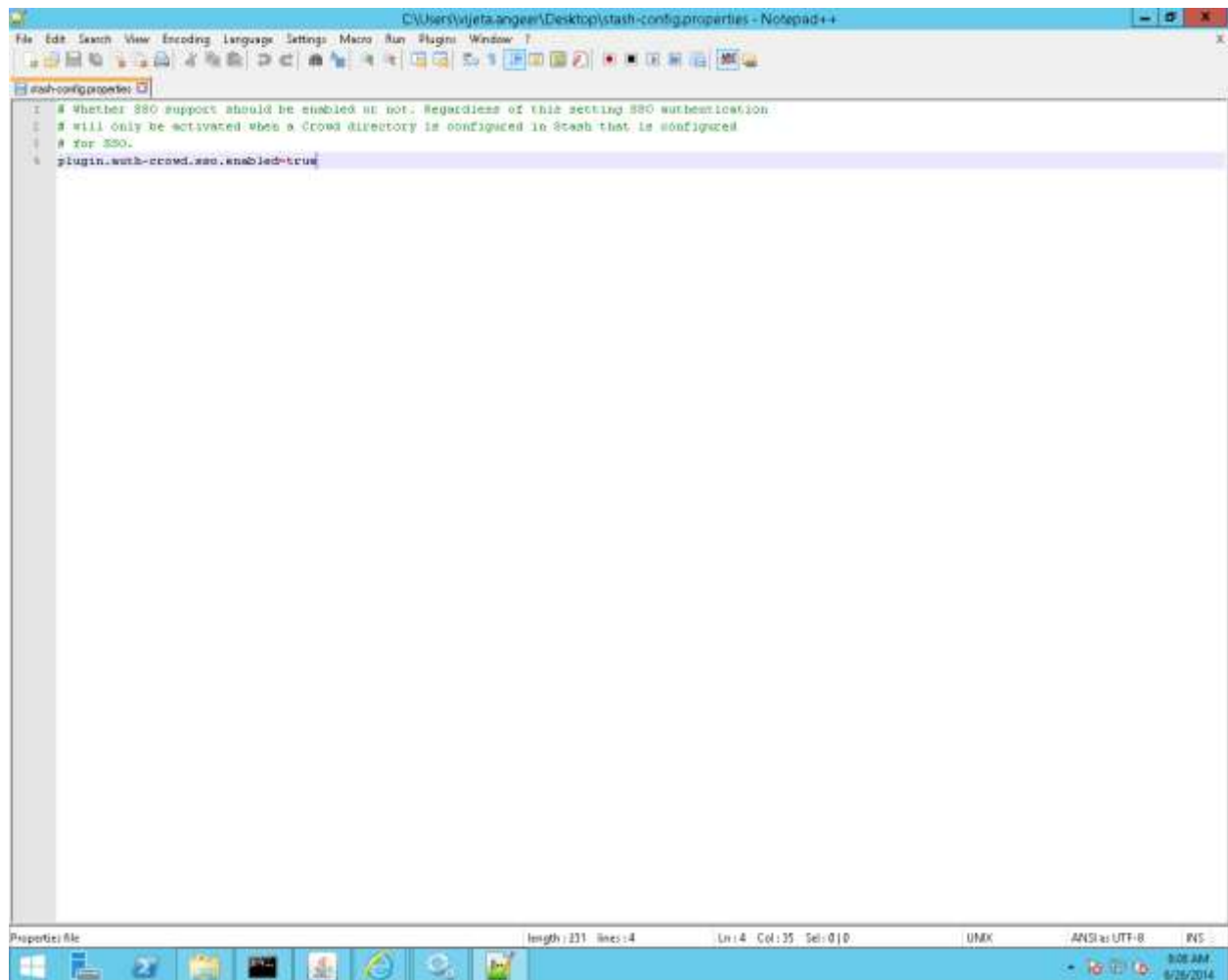
And click on **continue**.



- If Stash is running shut it down.
- Now, you can enable Crowd SSO integration by adding the following setting to `<STASH_HOME>/stash-config.properties`. If this file do not exist in `<STASH_HOME>` then feel free to create this file..

#### stash-config.properties

```
# Whether SSO support should be enabled or not. Regardless of this setting SSO authentication
# will only be activated when a Crowd directory is configured in Stash that is configured
# for SSO.
plugin.auth-crowd.sso.enabled=true
```



- You can also add few properties or you can say give values to few plugin parameters. These are not mandatory.

Property	Description	Default
plugin.auth-crowd.sso.session.validationinterval	The number of minutes to cache authentication validation in the session. If this value is set to 0, the SSO session will be validated with the Crowd server for every HTTP request.	3
plugin.auth-crowd.sso.http.max.connections	The maximum number of HTTP connections in the connection pool for communication with the Crowd server.	20
plugin.auth-crowd.sso.http.proxy.host	The name of the proxy server used to transport SOAP traffic to the Crowd server.	(none)
plugin.auth-crowd.sso.http.proxy.port	The connection port of the proxy server (must be specified if a proxy host is specified).	(none)

<code>plugin.auth-crowd.sso.http.proxy.username</code>	The username used to authenticate with the proxy server (if the proxy server requires authentication).	(none)
<code>plugin.auth-crowd.sso.http.proxy.password</code>	The password used to authenticate with the proxy server (if the proxy server requires authentication).	(none)
<code>plugin.auth-crowd.sso.http.timeout</code>	The HTTP connection timeout (milliseconds) used for communication with the Crowd server. A value of zero indicates that there is no connection timeout.	5000
<code>plugin.auth-crowd.sso.socket.timeout</code>	The socket timeout in milliseconds. You may wish to override the default value if the latency to the Crowd server is high.	20000

- Now restart the Stash.
- Now your SSO will be in action.

## 5. **Bamboo**(We haven't integrated bamboo for SSO but steps will be like specified below)

- Open Bamboo administrators dashboard and add an application link in Bamboo:-  
Administrator-> Add-ons -> Application Links(in Add-ons section in Left Bar)

Atlassian Bamboo – Build Dashboard

Project	Plan	Build	Completed	Tests	Reason
Test_PHP_Project	Test_PHP_Project_Plan	⌚ 15	N/A	No tests found	Manual run by f

1 of 1 plans shown

Bamboo has detected 5 errors

Feed for all builds or all failed builds

Continuous integration powered by Atlassian Bamboo version 5.4.2 build 4208 - 83 Mar 14

[Report a problem](#) - [Request a feature](#) - [Contact Atlassian](#) - [Contact Administrators](#)

Atlassian

Get a free Atlassian Bamboo evaluation license. Please consider purchasing it today.





Overview of SD - Crowd... Configuring the SaaS... Crowd Documentation... Integrating Bamboo with... Integrating Bamboo with... Application Links - Atle...

172.27.59.72:8095/plugins/servlet/applinks/listApplicationLinks

Bamboo My Bamboo Build Deploy Reports Create

### Bamboo administration

BUILD RESOURCES

- Agents
- Agent matrix
- Executables
- JDKs
- Server capabilities
- Global variables
- Shared repositories
- Shared credentials
- Repository settings

ELASTIC BAMBOO

- Configuration

PLANS

- Concurrent builds
- Build expiry
- Bulk action
- Build monitoring
- Remove plans
- Move plans
- Bulk edit plan permissions

SECURITY

- Users

#### Configure Application Links

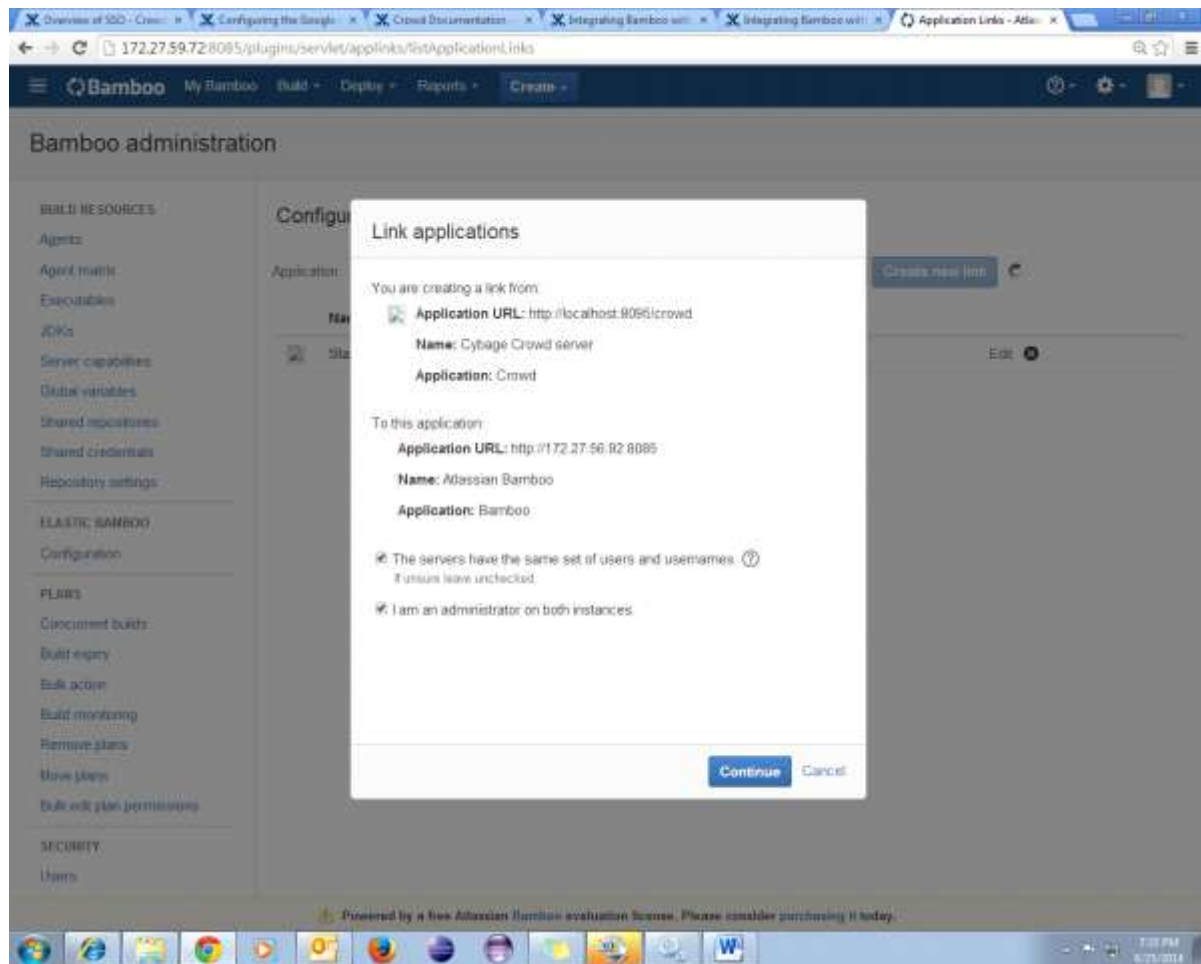
Application:  [Create new link](#)

Name	Application URL	Application	
Stash	http://localhost:7990	Stash	<a href="#">Edit</a>

Powered by a free Atlassian Bamboo evaluation license. Please consider purchasing it today.

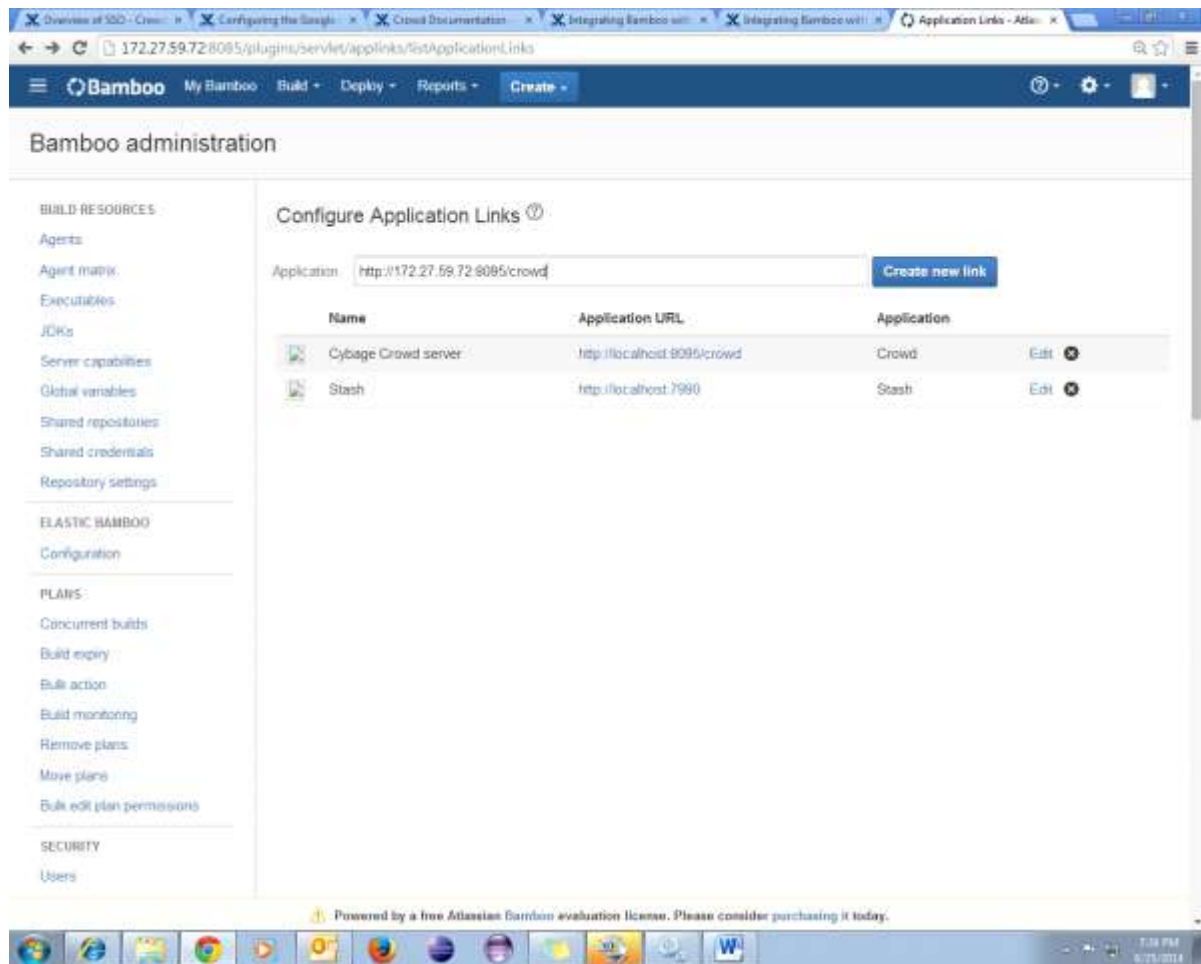
URL:- <http://172.27.59.72:8095/crowd>

Now click **Create new link** button.



Tick on The servers have the same set of users and usernames.

And click on **continue**



- If Bamboo is running shut it down.
- Now, edit the file `\BAMBOO\atlassian-bamboo\WEB-INF\classes\seraph-config.xml` file.

Comment out the line:-

```
<!-- <authenticator
class="com.atlassian.bamboo.user.authentication.BambooAuthenticator"/>-->
```

Uncomment the line:-

```
<authenticator class="com.atlassian.crowd.integration.seraph.v25.BambooAuthentic
ator"/>
```

- If you want to configure the Bamboo-Crowd connection settings manually (e.g. to change the proxy settings), you can find the `crowd.properties` and `atlassian-user.xml` files in the `$BAMBOO_HOME/xml-data/configuration/` directory.

- Now restart the Bamboo.
- Now your SSO will be in action.