

# JBoss-LDAP-Security

Project Name:	JBoss-LDAP-Security
Description:	Demonstration for LDAP Authentication in JBoss Security domain
Author:	Shantanu Banerjee
Disclaimer:	This demo is created using free version of ActivePresenter. This demo is not for commercial use. Please note this demo is not distributable.

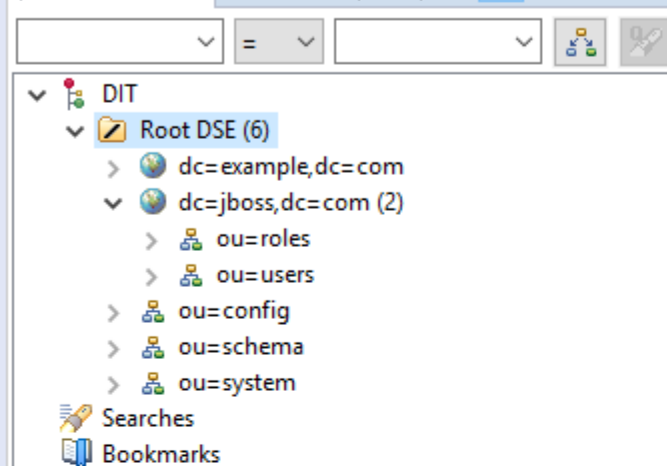


We Need the following to be running:

1. Virtual Box Linux VM
2. Apache Directory Studio
3. Putty
4. WinSCP



## LDAP Browser



Our LDAP Server is running  
and its connected

## Connections



## Modification Logs Search Logs Error Log

## Workspace Log

type filter text

## Message



org.apache.directory.ldap.client.api.exception

## Plug-in

org.apache.directory.stu...

## Date

04/05/18, 10:21 AM

There is no future associated with operation mes

org.apache.directory.stu...

04/05/18, 9:09 AM



## Outline

An outline is not available.

## Progress

No operations to display at this time.



```
440     <authentication>
441       <login-module code="Database" flag="required">
442         <module-option name="dsJndiName" value="java:jboss/mysql/DS1"/>
443         <module-option name="principalsQuery" value="select password from users where username=?"/>
444         <module-option name="rolesQuery" value="select role,'Roles' from roles where username=?"/>
445       </login-module>
446     </authentication>
447   </security-domain>
448   <security-domain name="ldapdomain" cache-type="default">
449     <authentication>
450       <login-module code="LdapExtended" flag="required">
451         <module-option name="throwValidateError" value="true"/>
452         <module-option name="java.naming.factory.initial" value="com.sun.jndi.ldap.LdapCtxFactory"/>
453         <module-option name="java.naming.provider.url" value="ldap://192.168.40.1:10389"/>
454         <module-option name="java.naming.security.authentication" value="simple"/>
455         <module-option name="bindDN" value="uid=admin,ou=system"/>
456         <module-option name="bindCredential" value="secret"/>
457         <module-option name="baseCtxDN" value="ou=users,dc=jboss,dc=com"/>
458         <module-option name="baseFilter" value="(uid={0})"/>
459         <module-option name="rolesCtxDN" value="ou=roles,dc=jboss,dc=com"/>
460         <module-option name="roleFilter" value="(uniqueMember={1})"/>
461         <module-option name="roleAttributeID" value="cn"/>
462         <module-option name="searchScope" value="ONELEVEL_SCOPE"/>
463         <module-option name="allowEmptyPasswords" value="true"/>
464       </login-module>
465     </authentication>
466   </security-domain>
467 </security-domains>
468 </subsystem>
469 <subsystem xmlns="urn:jboss:domain:threads:1.1"/>
470 <subsystem xmlns="urn:jboss:domain:transactions:1.5">
471   <core-environment>
```

JBoss Security domain  
configuration as per the LDAP  
Server



LDAP Browser

=

- ▼ DIT
  - ▼ Root DSE (6)
    - dc=example,dc=com
    - ▼ dc=jboss,dc=com (2)
      - ▼ ou=roles (3)
        - cn=admin
        - cn=manager
        - cn=user
      - ▼ ou=users (3)
        - uid=arun
        - uid=pavan
        - uid=shantanu
      - ou=config
      - ou=system
    - Searches
    - Bookmarks

Connections LDAP Servers

ExtLDAP

cn=manager,ou=roles,dc=jboss,dc=com

DN: cn=manager,ou=roles,dc=jboss,dc=com

training@master:/opt/production/jboss-eap-6.4/standalone/deployments/USerRoles\_Sec.war/WEB-INF

```
<?xml version='1.0' encoding='UTF-8' ?>
```

```
<!DOCTYPE jboss-web
PUBLIC "-//JBoss//DTD Web Application 2.3V2//EN"
"http://www.jboss.org/j2ee/dtd/jboss-web_3_2.dtd">
```

```
<jboss-web>
```

```
<security-domain>java:/jaas/ldapdomain</security-domain>
```

```
</jboss-web>
```

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```
"jboss-web.xml" 11L, 257C
```

file : \$JBASS\_HOME/standalone/deployments  
/USerRoles\_Sec/WEB-INF/jboss-web.xml

name of the security domain  
as per configuration

ActivePresenter

Outline

cn=manager,ou=roles,dc=jboss,dc=com

- objectClass (2)
- uniqueMember (1)
- cn (1)

progress

operations to display at this time.



LDAP Browser

=

- ▼ DIT
  - ▼ Root DSE (6)
    - dc=example,dc=com
    - ▼ dc=jboss,dc=com (2)
      - ▼ ou=roles (3)
        - cn=admin
        - cn=manager
        - cn=user
      - ▼ ou=users (3)
        - uid=arun
        - uid=pavan
        - uid=shantanu
      - ou=config
      - ou=system
    - Searches
    - Bookmarks

Connections LDAP Servers

ExtLDAP

cn=manager,ou=roles,dc=jboss,dc=com

DN: cn=manager,ou=roles,dc=jboss,dc=com

```
training@master:/opt/production/jboss-eap-6.4/standalone/deployments
[training@master log]$ cd ../deployments/
[training@master deployments]$ cd UserRoles_Sec.war
[training@master UserRoles_Sec.war]$ cd WEB-INF/
[training@master WEB-INF]$ pwd
/opt/production/jboss-eap-6.4/standalone/deployments/UserRoles_Sec.war/WEB-INF
[training@master WEB-INF]$ vi jboss-web.xml
[training@master WEB-INF]$ cd ..
[training@master UserRoles_Sec.war]$ cd ..
[training@master deployments]$ ls
LoggerSample.war          TestDS.war               USerRoles_Sec.war.deployed
LoggerSample.war.deployed TestDS.war.deployed
README.txt               UserRoles_Sec.war
[training@master deployments]$
```

UserRoles\_Sec.war is  
deployed

ActivePresenter

Outline

- cn=manager,ou=roles,dc=jboss,dc=com
- objectClass (2)
- uniqueMember (1)
- cn (1)

Progress

Operations to display at this time.



LDAP Browser



- ▼ DIT
  - ▼ Root DSE (6)
    - dc=example,dc=com
    - dc=jboss,dc=com
      - ou=roles (1)
        - cn=administrator
        - cn=manager
        - cn=user
      - ou=users (1)
        - uid=admin
        - uid=partner
        - uid=shadow
      - ou=config
      - ou=system
  - Searches
  - Bookmarks

Connections LDAP S

ExtLDAP

cn=manager,ou=roles,dc=jboss,dc=com

DN: cn=manager,ou=roles,dc=jboss,dc=com

training@master:/opt/production/jboss-eap-6.4/bin

```
[training@master bin]$ ./standalone.sh -c standalone-full.xml -b 192.168.56.101  
-bmanagement 192.168.56.101
```

Start the server

ActivePresenter

Outline

- cn=manager,ou=roles,dc=jboss,dc=com
  - objectClass (2)
  - uniqueMember (1)
  - cn (1)

Progress

Operations to display at this time.





LDAP Browser

DIT

Root DSE (6)

&gt; dc=example,dc=com

&gt; dc=jboss,dc=com

&gt; ou=roles,dc=jboss,dc=com

&gt; cn=admin,ou=roles,dc=jboss,dc=com

&gt; cn=manager,ou=roles,dc=jboss,dc=com

&gt; cn=user,ou=roles,dc=jboss,dc=com

&gt; ou=users,dc=jboss,dc=com

&gt; uid=admin,ou=users,dc=jboss,dc=com

&gt; uid=partner,ou=users,dc=jboss,dc=com

&gt; uid=shadow,ou=users,dc=jboss,dc=com

&gt; ou=config,dc=jboss,dc=com

&gt; ou=schema,dc=jboss,dc=com

&gt; ou=system,dc=jboss,dc=com

Searches

Bookmarks

Connections LDAP

ExtLDAP

cn=manager,ou=roles,dc=jboss,dc=com

DN: cn=manager,ou=roles,dc=jboss,dc=com

training@master:/opt/production/jboss-eap-6.4/standalone/deployments

training@master:/opt/production/jboss-eap-6.4/bin

```
16:23:23,141 INFO [org.jboss.web] (ServerService Thread Pool -- 63) JBAS018210: ^
Register web context: /JMSApp
16:23:23,202 INFO [org.jboss.web] (ServerService Thread Pool -- 67) JBAS018210:
Register web context: /LoggerSample
16:23:30,372 INFO [org.jboss.as.jacorb] (MSC service thread 1-2) JBAS016328: CO
RBA Naming Service started
16:23:30,555 INFO [org.jboss.as.server] (Controller Boot Thread) JBAS015859: De
ployed "JMSApp.war" (runtime-name : "JMSApp.war")
16:23:30,556 INFO [org.jboss.as.server] (Controller Boot Thread) JBAS015859: De
ployed "ShoppingCart.jar" (runtime-name : "ShoppingCart.jar")
16:23:30,568 INFO [org.jboss.as.server] (ServerService Thread Pool -- 34) JBAS0
15859: Deployed "LoggerSample.war" (runtime-name : "LoggerSample.war")
16:23:30,569 INFO [org.jboss.as.server] (ServerService Thread Pool -- 34) JBAS0
15859: Deployed "USerRoles_Sec.war" (runtime-name : "USerRoles_Sec.war")
16:23:30,575 INFO [org.jboss.as.server] (ServerService Thread Pool -- 34) JBAS0
15859: Deployed "TestDS.war" (runtime-name : "TestDS.war")
16:23:30,674 INFO [org.jboss.as] (Controller Boot Thread) JBAS015961: Http mana
gement interface listening on http://192.168.56.101:9990/management
16:23:30,679 INFO [org.jboss.as] (Controller Boot Thread) JBAS015951: Admin con
sole listening on http://192.168.56.101:9990
16:23:30,679 INFO [org.jboss.as] (Controller Boot Thread) JBAS015874: JBoss EAP
6.4.0.GA (AS 7.5.0.Final-redhat-21) started in 48562ms - Started 519 of 552 ser
vices (85 services are lazy, passive or on-demand)
```

Quick Access

Outline

cn=manager,ou=roles,dc=jboss,dc=com

objectClass (2)

uniqueMember (1)

cn (1)

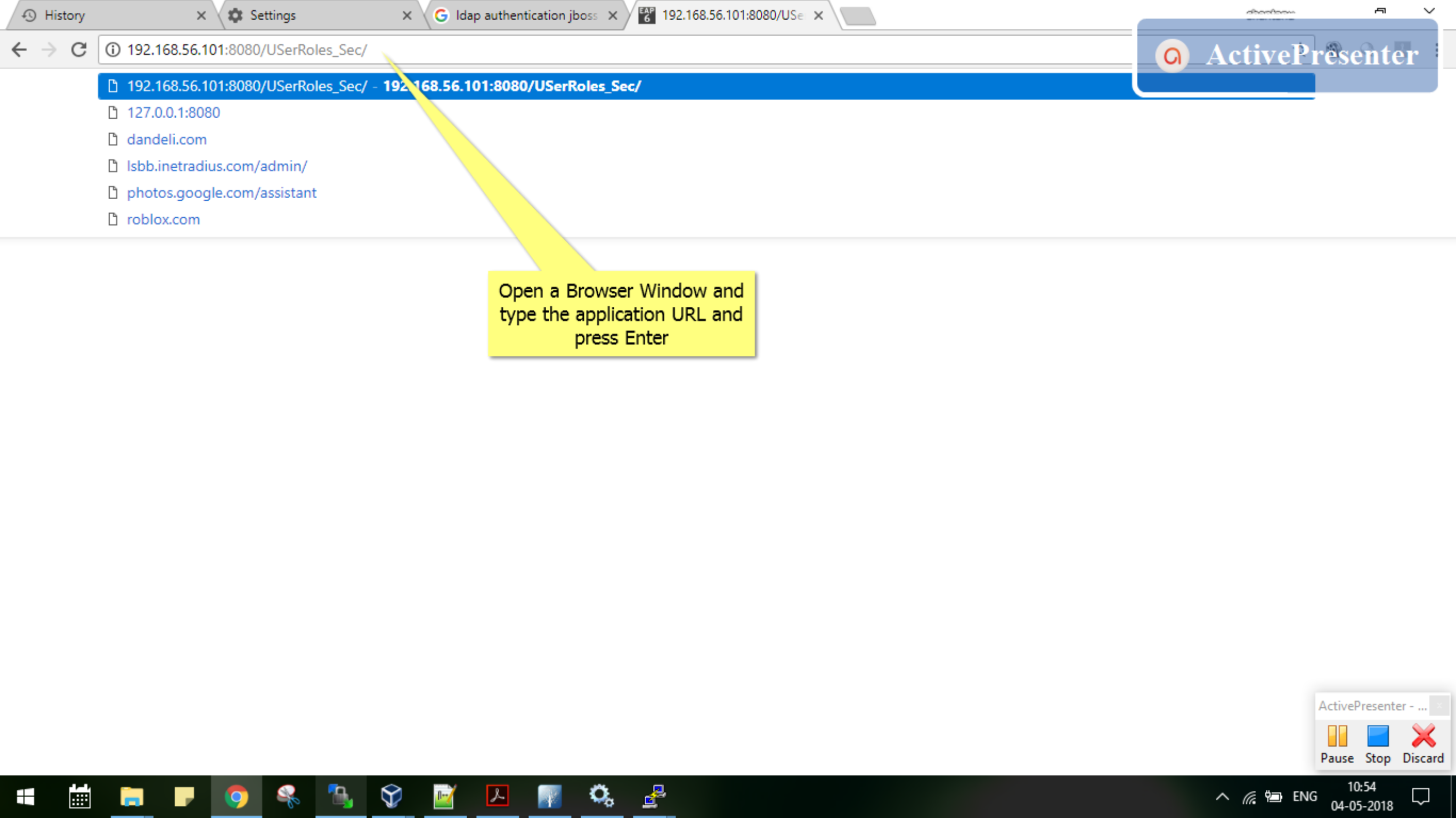
progress

operations to display at this time.

ActivePresenter - ...

Pause Stop Discard

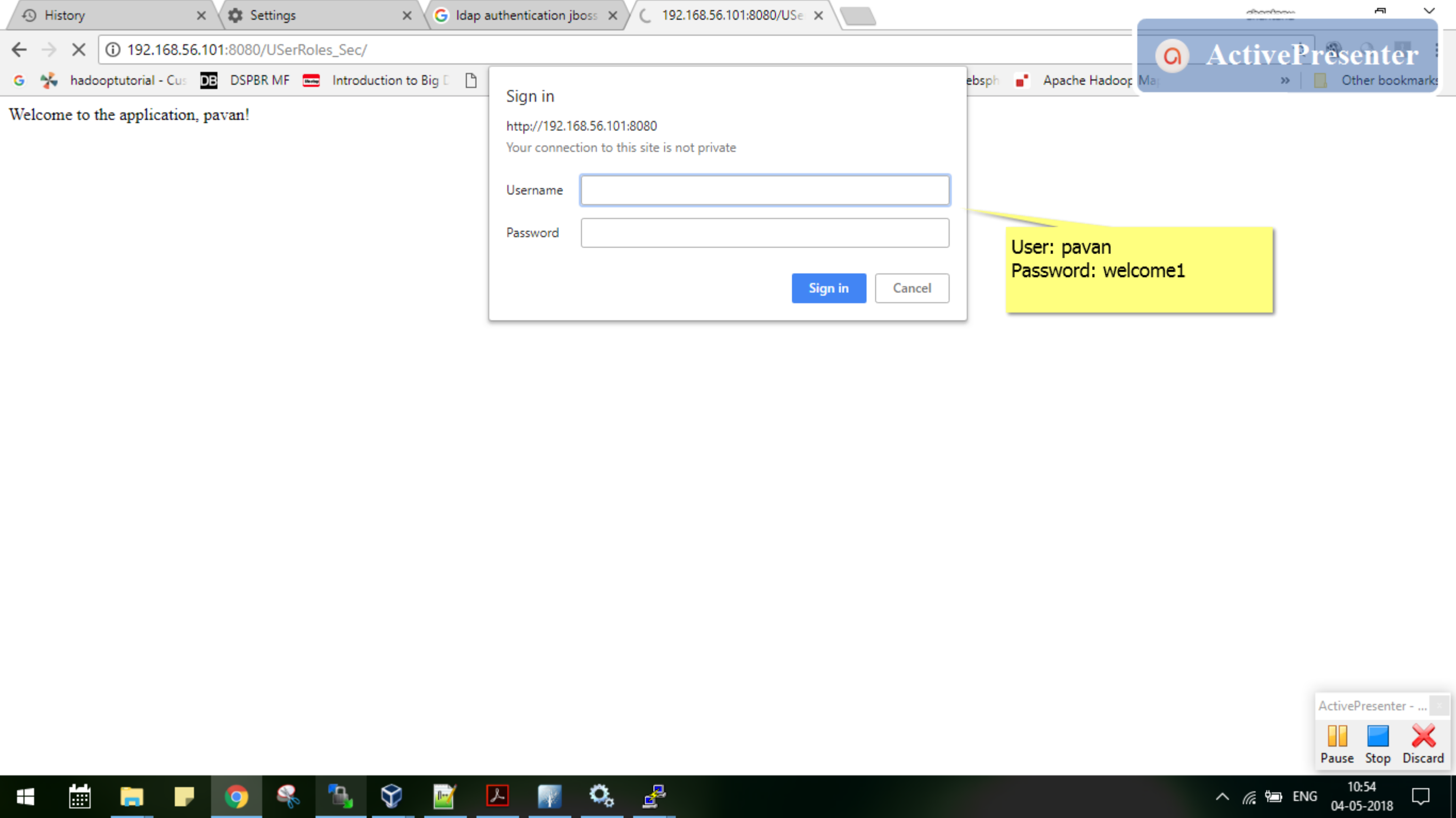




Open a Browser Window and  
type the application URL and  
press Enter

ActivePresenter - ...

Pause Stop Discard



### Sign in

http://192.168.56.101:8080

Your connection to this site is not private

Username

Password

Sign in

Cancel

User: pavan  
Password: welcome1

Welcome to the application, pavan!

The message proves that the LDAP authentication is successful

## Summery

1. Configured JBoss LDAP Authentication
2. Configured and Deployed a secured Web Application
3. Authenticated the Application with and external LDAP Server.