RBS Help Desk 1111

1. Important Links

1. https://confluence.dts.fm.rbsgrp.net/display/RSERV/Ignite+Platform+Core. -- Confluence page

2. http://slx.web.rbsgrp.net/Content/System/Default.aspx -- Check raised request status

3. http://fm-eu-lon-pac.fm.rbsgrp.net:8081/gbm\_india.pac -- Internet setting link

4. https://confluence.dts.fm.rbsgrp.net/display/RSERV/Home -- Ignite overview

2. Bit bucket write access

Raise a request @ https://jira-dts.fm.rbsgrp.net/servicedesk/customer/portal/44

URL <https://stash.dts.fm.rbsgrp.net/projects/IGNITE>

Check request status

<https://jira-dts.fm.rbsgrp.net/servicedesk/customer/user/login>

3. Kirthi shared location

\\DELMW99789\shared

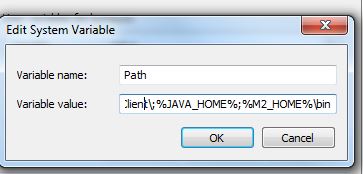
4. Use IntellIJ Idea instead of Eclipse

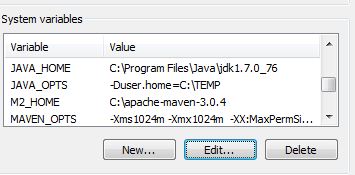
<https://dzone.com/articles/why-idea-better-eclipse>

5. Maven clean install command

mvn clean install -PDynamic –DskipTests

mvn dependency:tree > tree

6. 

7. 

8. Add project to Maven to get all maven dependent things to list

9. To Generate Report means write data to Excel file we need to use

Apache POI jar where for

Excel 2003 – HSSFWORKBOOK

Excel 2007 - XSSFWORKBOOK

10. When creating a project then always

10.1 Use Interface to intract with DB

10.2 Use its implementations

11. Writing Data into file

<https://www.java-success.com/processing-large-files-efficiently-java-part-1/>

12. VVVVVVVVVVVVVVVVVVVVVVVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

Always we need to enable talent on System using Control panel

13. Reportable manager

To Run reportable manager, we need to

1. Run ReportableManagerStarter. java
2. Use below VM\_Option

-XX:PermSize=256m -XX:MaxPermSize=512m -Denv=ldn.uat14c -Dlogs.dir=C:\\Ashish\_Work\\reportable-manager-dir\\logs

1. After running ReportableManagerStarter. Java, we need to use below link in Browser

<http://localhost:12031/rm/reconciliation>

1. To Debug the same we need to use

Run ReportableManagerStarter. java

1. Install OpenSSh terminal or Use Putty to make SSH connect request

ssh -p 12035 rm\_shell@localhost

she11M3

testOrchestrate runOneReconciliation OTC

14. Cache Comparable Report can be generated using below URL

<http://lonrs10460:9292/cache-compare-web/cc/init>

15. command to run & install MVN

mvn clean install –DskitTests

16. VVVVVVVV

git merge --continue

17. if We are not able to Sync with Remote branch then

Delete Local file and checkout same branch again

git checkout master

git branch -D feature/IGNITE-12032

create new branch

git checkout -b feature/IGNITE-12567

git pull

git checkout feature/IGNITE-12032

git status –s

**checkout branch from remote**

git checkout origin/master -- business/src/main/java/com/rbs/ignite/business/itus/web/controller/totv/TotvController.java

**undo local staged changes to Un staged changes**

git rm -r --cached <file name>

**to undo file content which not required**

git checkout file name

Simply remove a file using Git bash

rm file name

**VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII**

## Checkout any file from staging area

git checkout HEAD – file name

**here file should be modified file only not a new file else**

**it will throw an error**

**for this use**

git reset HEAD filr name

**Learn more about Git commands**

**18. Before Commit your changes first need to pull changes from Remote repos**

Git Stash changes

VVVVVVVVVVVVVVVVVVVVVVV

To undo all the local committed changes

git reset HEAD~

1.Add changes to Git

git stash

git pull –rebase

git stash apply

git status

git commit -m "IGNITE-12180"

git push --set-upstream origin feature/IGNITE-12032

**if want to Revert the code**

git commit –amend

delete a branch

git push -d <remote\_name> <branch\_name>

$ git branch -d <branch\_name>

Find current commit of current branch

git reset -–hard – First do git pull

to move a branch to particular commit

git reset –hard <commit>

shortcut to commit git status changes without first add

git commit . then write git comment as well

git reset --soft HEAD^1\

**To Remove file form index**

git reset HEAD <Files>

git commit -m "IGNITE-12180 Report generation of DF compare"

git push --set-upstream origin feature/IGNITE-12032

git push --set-upstream origin feature/IGNITE-12032 –f

git shash changes for long time as

tar -cvf latest\_04\_10.tar <file list>

git remote set-url https://kumaunn@stash.dts.fm.rbsgrp.net/scm/ignite/rates-trade-processing.git

`

Raise PR

1. First Sync your Feature branch with Parent branch

Git pull origin <parent branch>

If its is Merging then use

1. git merge –continue
2. Just push your changes into branch

19. Git Material

All basics Git commands

<http://rogerdudler.github.io/git-guide/>

20. Read StringUtils class -- - This libraby is null safe

Apache common libraby ,

<http://www.java2s.com/Tutorial/Java/0500__Apache-Common/0020__StringUtils.htm>

21. Google Collections

22. Mongo DB

<https://www.w3resource.com/mongodb/introduction-mongodb.php>

23. Javers library to perform Deep Dive comparions of Java Objects

24. Functional programming

<https://pragprog.com/book/vsjava8/functional-programming-in-java?cm_mc_uid=58960637412815063118462&cm_mc_sid_50200000=1506315474>

<https://www.ibm.com/developerworks/library/j-ft1/>

http://www.mkyong.com/tutorials/java-8-tutorials/

.zipWithIndex().partition( t -> t.**v2**%2 ==0)

25. Spring Retry Example

<http://www.baeldung.com/spring-retry>

If it is Interface implementation without Spring Boot then we need to make return type of both Retryable and Recover same VVVVVVVVVVVVVVVVVVVIIIIIIIIIIIIIIIIII

1. Plus both should be declared in interface with Annotations
2. <https://github.com/spring-projects/spring-retry/issues/85>

26. Log File appender works as -- > Today’s date log files will be generated by .log while previous it will be with that date + .log

27. All server Recon works on

<http://lonrs10846:12041/rm/reconciliation/RECONCILIATION-35>

28. sudo su – rsuurun if not supported then user box called lonrs10425

29. Copy file form any Unix server to Local machine

1. Cp <file> to /home/swamivb/d
2. Go to /home/swamivb/d and change file permission using chmod 777<file-name>
3. 3. tar -xzf rebol.tar.gz

30. to find Hostname of any UAT

Go to /apps/IRDuatrun/rsu/ldn/uat14c/cachemgr/etc - > vi cachemgr.properties

31. SSH connection suing java

<http://www.svlada.com/ssh-public-key-authentication/>

32. <https://stackoverflow.com/questions/2901248/com-jcraft-jsch-jschexception-auth-cancel>

<https://www.ssh.com/ssh/authorized_keys/openssh>

33. Specify argeument while running .sh file is

./eodSnapshot.sh -s SITE\_CODE LDN

34. command to paste on bash linux

35. Deploy New service on server

1. Login to lonrs10425

Kumaunn

sudo su – rsuuopr

cd /apps/IRDrsudbld/<respective directory>

Follow confluence page – Use dev environment

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Build+Deployments+-+RS12.0+onwards#BuildDeployments-RS12.0onwards-DEVenvironment(manual)

36. Command to download tar.gz file from TeamCity is

Delete if already exists

If find permission issue then first stop already running service

Go to /apps/IRDuatrun/rsu/ldn/uat14c/ignite-trade-update-service

./app -a stop

If not getting stopped then kill the process

Kill -9 <pid>

curl –- insecure <path-from-teamcity> -u <username> -O

curl --insecure https://teamcity-3-dts.fm.rbsgrp.net/repository/download/Ignite\_IgniteTradeUpdateService\_FeatureOnDemand/220934:id/ignite-trade-update-service/bundle/target/ignite-trade-update-service-bundle-36.0.0-SNAPSHOT-deploy.tar.gz -u malanua -O

and config both files should be downloaded

untar both the files.tar.gz file

tar -xzf rebol.tar.gz

37. Go to /apps/./endpoints/<downloaded-component-bundle-directory>

Stay in Project bundle directory only

./bin/install.sh -c /apps/IRDrsudbld/endpoints/<downloaded-component-config-directory> -e /apps/IRDuatrun/rsu/ldn/uat14c

If it is new service it will ask to create folder for logging information using Rsuurun under

/apps/………/ldn/uat19a/<download-component>

Create dir as rsuurun user

Follow confluence link to activate the service

Follow confluence to start the service

40. https://ssoa-uat.fm.rbsgrp.net/

Use Soap UI for the same

41. if sso password reset call @ 1111

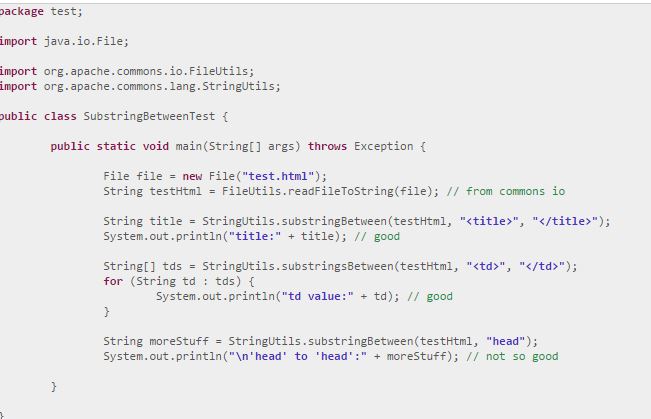
42. Team City process

1. Run Particular project’s On demand on your Branch
2. Run repository’s of that project’s On demand on your Branch
3. Then it allows to Merge the changes

43. Learning Cucumber Test packs

1. <http://blog.czeczotka.com/2014/07/22/cucumber-jvm-with-maven-in-minutes/>

<https://github.com/natritmeyer/cucumber-jvm-java-maven-parallel-picocontainer-selenium-webdriver-pagefactory-skeleton/blob/master/pom.xml>



50. In idea, if we don’t find Java class, package when click on any directory then use right click -> Mark as - > source folders

51. In idea always, Do Do Do Add to Maven when click on Newly created project

52. Raise A new GBM software request.

1. Open GBM console -
2. Choose cost center as - INITI0004

52. Port / host information

To deploy the service on particular uat, we need to choose host/port for that follow RM confluence page , choose port and check if available on host

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Reportable+Manager+and+Data+Fabric+Environment .

 netstat -anp | grep 18531

ps -ef | grep uat14c

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Release+Notes+35#ReleaseNotes--1079881772

Rbs builds release process

1. Release builds are deployed on promotion basis by Env team

To make release build, we need to perform below steps

* 1. from Master branch - >> Run Branch on Demand

by using Run - > Paramter - > releaseVersion , Jira, next version – it should be 38.0.0-SNAPSHOT

Run -> Changes - > Default is Master only

It will create release/releaseVersion branch in that Repo automatically and

Triggers Patch on Demand as well

Patch on demand will give us Artifacts

Which Further invoke Update SnapShot job also

Which Bump version in Master automatically

Patch on Demand may fail due to some version dependencies in this case need to change Relese dependencies then again Run Patch on Demand

Which will then Invoke Deploy Patch Job and finally Artificates would be deployed on

/apps/IRDrsudbld/ignite/builds/rates-trade-processing/release/37.4/25/ignite-trade-\\ate-service/bundle/target

Then ask Ankur to promote build on Env.

Example

Say make 1. Release/37.4 with next 38.0 on master

1. will create **release/37.4** and will Bump 38.0 version on master
2. Probably Patch on demand will fail but update SNAPSHOT will run successfully
3. If Patch on demand fails then need to change dependencies for that create
4. **Feature/37.4** branch from **release/37.4** means both should be in sync
5. **Now make changes in feature/37.4 then raise PR to release/37.4 only**
6. Once PR approved then Run **Patch on demand** on **release/37.4 only**

Using Jira as parameter, try same steps until it runs successfully.

1. It invokes Deploy patch automatically and artificates would be there

/apps/IRDrsudbld/ignite/builds/rates-trade-processing/release/37.4/25/ignite-trade-update-service/bundle/target

Find properties and cfg at below path

/apps/IRDuatrun/rsu/ldn/uat14b/ignite-trade-update-service/etc/config

Note:- Release - > Patch On demand will always be creating Artificates of selected componets and will increase minor version by 1 and will create director in

/apps/IRDrsudbld/ignite/builds/rates-trade-processing/release/37.4/26

And in release/x.x branch it will also incease SNAPSHOT version by 1

**Manual Development Steps:-**

1. Login as rsuuopr user and go to /apps/IRDrsudbld/rates-trade-processing if not exist create the same
2. Download binaries and configs from Team city using below command  
   2.1 curl --insecure <Team city binary url> -u <username> -O  
   2.2 curl --insecure <Team city config url> -u <username> -O
3. untar both the files tar.gz file using

3.1tar -xzf rebol.tar.gz

**for** x in $(ls -1 \*.tar.gz);**do** tar -zxvf $x;done

login

1. Install binary. go to /apps/IRDrsudbld/rates-trade-processing/ignite-trade-update-service-bundle-\* and run below command

./bin/install.sh -c /apps/IRDrsudbld/rates-trade-processing/<ignite-trade-update-processing-bundle-config-\*> -e /apps/IRDuatrun/rsu/<site>/<env>

1. Activate binary. Go to /apps/IRDuatrun/rsu/<site>/<env>/<ignite-trade-update-processing-bundle-\*> and run below command

./opt/bin/activate.sh

1. Start/stop service

6.1 login as sudo su - rsuurun

6.2 Go to cd /apps/IRDuatrun/rsu/<site>/<env>/<ignite-trade-update-processing-bundle-\*>

6.3 ./app -a stop/start

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For Master - Rates trade processing, platform core and common should always be SNAPSHOT

Bonds or IRS confluence page

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Bonds+Environment+Details

ODC HTTP API READ RESTRICTED

SSO c3NvVG9rZW46S1ZnY2pkMm04bWJoRU0zTTU2elUremdMejlVUnhCcnRhS3l1Y2E4N3JaVGwyM3A1VDVCL3hoZlRObW9zU2crS0lMd0VscU5Ga3BtaDFOV21YNWpWZzRqTVdnS25GcGx4YmFYWXZTblM3M3pFU1hVcm93QzVLa1pPbWlLZXVya1pRd2xaL1czL2JVcmpTV0pmb3NXVng5ZTVtUXFRL21lYVNLelozZUhUa0o0PXwwfGt1bWF1bm58T0RDLUhUVFAtQVBJLVJFQUQtUkVTVFJJQ1RFRHwyMDE3MTIxMjA4MTAyMXwxODAwfA==

new file: ignite-trade-update-service/business/src/main/java/com/rbs/ignite/business/itus/mgmt/IRSHealthCheck.java

new file: ignite-trade-update-service/business/src/main/java/com/rbs/ignite/business/itus/mgmt/ODCHealthCheck.java

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ci.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.default.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ldn.prod.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ldn.uat14b.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ldn.uat14c.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ldn.uat16c.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.ldn.uat19a.properties

modified: ignite-trade-update-service/business/src/main/resources/config/ignite-trade-update-service.local.properties

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‘

VVVVVVVVVVVVVVVVVVVVVVVVVVVVV

In dependencyManagemnt we can write the same Project parent dependency

Like ignite-trade-update-processing can be used in dependenyManagement which would be used by ignite-trade-bundle-

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To make free space

We need to use sudo su – rsudbld

After creating free spce then we need to Just run Deploy on Demand while running this scriptwe need to Give Dependency i.e any Success Build

It will deploy then

1. Functional Programming

<http://www.tothenew.com/blog/functional-programming-in-java8-using-lambda-expressions/>

// To get isin

http://ignite-reference-service-dev:16031/login

// To print the logs

-Dlogs.dir=c:\logs -Denv=local

TotvStarter

1. Ansible tutorials

<http://docs.ansible.com/ansible/latest/intro_adhoc.html>

<https://linux.die.net/man/1/ansible>

<https://www.codereviewvideos.com/course/ansible-tutorial>

[‎10/‎01/‎2018 16:52] BAKSHI, Ayushi (NatWest Markets):

https://stash.dts.fm.rbsgrp.net/projects/IGNITE/repos/platform-core/browse/deployment/

This conversation is being saved. You'll see it soon in your Outlook Inbox folder.

[‎10/‎01/‎2018 17:11] BAKSHI, Ayushi (NatWest Markets):

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Ansible

http://docs.ansible.com/ansible/latest/index.html

[‎10/‎01/‎2018 17:12] BAKSHI, Ayushi (NatWest Markets):

https://confluence.dts.fm.rbsgrp.net/display/RSERV/Ansible+Deployment+Steps

This conversation is being saved. You'll see it soon in your Outlook Inbox folder.

Team city service account

1. Call @1111 and get svc-rsubuild account un locked

RBS linux box folder architecture

1. /apps/IRDrsudbld - > used for dev related builds can deploy any binaries/confis for Testing.
2. /apps/IRDuatapps - > Most stable builds folder don’t use for Dev/Testing builds
3. /apps/IRDuatrun - > Only installed components are installed by install, activate, start/stop scripts

Ansible run command now

[‎19/‎01/‎2018 16:25] BAKSHI, Ayushi (NatWest Markets):

./ansible-pull.sh -v 38.0.0 -a restart -e uat16a

 ./ansible-pull.sh -v 38.0.0 -a restart -e uat16a

./ansible-pull.sh -v 38.0.5 -a deploy -e uat14c

./ansible-pull.sh -v 38.0.5 -a deploy -e uat14c

To find last lines tail -500f <file>

grep 'ToTv service' ignite-trade-update-service.log

Rates trade processing platform core and common Master should always be in Sync means

All should be SNAPSHOY

You should spend some time understanding the whole DAG model of git. It's surprisingly simple and makes all the commands quite clear.

./ansible-pull.sh -v v39.0.3 -a deploy -e uat14c

Deleted these 2 files

/apps/IRDuatapps/rsu/ignite-trade-update-service-bundle-config-39.0.4

/apps/IRDuatapps/rsu/ignite-trade-update-service-bundle-39.0.4

HTTP request URL size

<https://technomanor.wordpress.com/2012/04/03/maximum-url-size/>

Git format patch for specific commit id

Git format-patch -1 <commit id >

<https://mestachs.wordpress.com/2012/10/10/through-the-eyes-of-sonar-exception-handling/>

VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

1. We should always throw Checked Exception so that User can take necessary action
2. If it is unchecked we can catch it – while catching the same we can either log or Re trow the same
3. Re throwing means we need to use Throwable only

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1. If facing issue – Package name does not corresponds to File path

Solution – We need to just Import that Module in intellij

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1. If facing issue while bulding components in Idea / elcipse use

CMD

mvn clean install –X –DskipTests –Pexisting

1. Read any directory/file from Resource folder

<https://www.mkyong.com/java/java-read-a-file-from-resources-folder/>

ClassLoader classLoader = getClass().getClassLoader();  
File file = **new** File(classLoader.getResource(**"file-based-store"**).getFile());  
String absolutePath = file.getAbsolutePath();

NIO package

Set<TotvInstrumentData> totvDataSet = **new** LinkedHashSet<>();  
String fileName = instrumentInput.getFileName();  
***logger***.info(requestId+**":"**+**"fileName:"**+fileName);  
Path path = Paths.*get*(fileName);  
***logger***.info(requestId+**":"**+**"path from fileName:"**+path);  
**if**(!Files.*exists*(path)){  
 **try** {  
 path = Paths.*get*(ClassLoader.*getSystemResource*(fileName).toURI());  
 ***logger***.info(requestId+**":"**+**"path from classloader:"**+path);

1. Test method with Thread.sleep

<https://stackoverflow.com/questions/34968968/how-to-test-a-method-using-sleep-with-java/34969000>

<https://stackoverflow.com/questions/19494506/how-to-mock-thread-sleep-with-powermock>

1. VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV

To create Object of System under Test

If takes complicated object

We can mock using below

For that

*//Mockito.when(loadProcessor.start()).thenThrow(new MessagingException());*Mockito.*doThrow*(**new** MessagingException()).when(**loadProcessor**).start();

**package** com.rbsfm.mo.workflow.executor;  
  
**import** com.rbsfm.mo.workflow.blotterload.IBlotterLoadProcessor;  
**import** com.rbsfm.mo.workflow.core.FailureCounterKeeper;  
**import** com.rbsfm.mo.workflow.core.RatesWorkflowExecutor;  
**import** com.rbsfm.mo.workflow.core.state.ApplicationStatePublisher;  
**import** com.rbsfm.mo.workflow.core.state.IApplicationState;  
**import** com.rbsfm.mo.workflow.core.state.RatesWorkflowShutdownHook;  
**import** com.rbsfm.mo.workflow.exception.MessagingException;  
**import** com.rbsfm.mo.workflow.messaging.MessagingManager;  
**import** com.rbsfm.mo.workflow.reconciliation.core.MatchBrokenTradeProcessor;  
**import** com.rbsfm.mo.workflow.startup.InitialLoadProcessor;  
**import** org.junit.Before;  
**import** org.junit.Test;  
**import** org.mockito.InjectMocks;  
**import** org.mockito.Mock;  
**import** org.mockito.Mockito;  
**import** org.mockito.MockitoAnnotations;  
  
  
*/\*\*  
 \* Created by kumaunn on 07/03/2018.  
 \*/***public class** RatesWorkflowExecutorTest {  
  
  
  
 @Mock  
 **private** IApplicationState **applicationState**;  
  
 @Mock  
 **private** InitialLoadProcessor **processor**;  
  
 @Mock  
 **private** MessagingManager **manager**;  
  
 @Mock  
 **private** IBlotterLoadProcessor **loadProcessor**;  
  
 @Mock  
 **private** RatesWorkflowShutdownHook **shutdownHook**;  
  
 @Mock  
 **private** ApplicationStatePublisher **publisher**;  
  
 @Mock  
 **private** FailureCounterKeeper **keeper**;  
  
 @Mock  
 **private** MatchBrokenTradeProcessor **matchBrokenTradeProcessor**;  
  
 @InjectMocks  
 **private** RatesWorkflowExecutor **testObj** = **new** RatesWorkflowExecutor(**applicationState**,**processor**,**manager**,**loadProcessor**,**shutdownHook**,**publisher**,**keeper**,**matchBrokenTradeProcessor**);  
  
 @Before  
 **public void** setup() {  
 MockitoAnnotations.*initMocks*(**this**);  
 }  
  
 @Test(expected = MessagingException.**class**)  
 **public void** execute() **throws** MessagingException, InterruptedException{  
 *// To mock void method* Mockito.*doThrow*(**new** MessagingException()).when(**loadProcessor**).start();  
 **testObj**.execute();  
 }  
}

<https://stackoverflow.com/questions/25594090/how-can-i-mock-private-static-method-with-powermockito>

<https://www.java-forums.org/new-java/32064-how-test-void-method-junit.html>

Mocking static methods

**package** com.rbs.rates.business.reportservices.service;  
  
**import** com.rbs.rates.business.reportservices.repository.FieldContextRepository;  
**import** org.junit.Test;  
**import** org.junit.runner.RunWith;  
**import** org.mockito.InjectMocks;  
**import** org.mockito.Mock;  
**import** org.mockito.Mockito;  
**import** org.mockito.runners.MockitoJUnitRunner;  
**import** org.powermock.api.mockito.PowerMockito;  
**import** org.powermock.core.classloader.annotations.PowerMockIgnore;  
**import** org.powermock.core.classloader.annotations.PrepareForTest;  
**import** org.powermock.modules.junit4.PowerMockRunner;  
**import** org.xml.sax.SAXException;  
  
**import** javax.xml.parsers.DocumentBuilderFactory;  
**import** javax.xml.parsers.ParserConfigurationException;  
**import** java.io.IOException;  
  
*/\*\*  
 \* Created by kumaunn on 09/03/2018.  
 \*/*@RunWith(PowerMockRunner.**class**)  
@PrepareForTest(DocumentBuilderFactory.**class**)  
@PowerMockIgnore(**"javax.management.\*"**)  
**public class** OTCXmlComparatorTest {  
  
 @Mock  
 **private** FieldContextRepository **contextRepository**;  
  
 @InjectMocks  
 **private** OTCXmlComparator **xmlComparator** = **new** OTCXmlComparator(**contextRepository**);  
  
 @Mock  
 **private** DocumentBuilderFactory **factory**;  
  
 @Test(expected = ParserConfigurationException.**class**)  
 **public void** compare() **throws** ParserConfigurationException, SAXException,IOException {  
 PowerMockito.*mockStatic*(DocumentBuilderFactory.**class**);  
 PowerMockito.*when*(DocumentBuilderFactory.*newInstance*()).thenReturn(**factory**);  
  
 Mockito.*when*(**factory**.newDocumentBuilder()).thenThrow(**new** ParserConfigurationException());  
  
 **xmlComparator**.compare(**""**,**""**,**true**);  
 }  
}

Mock private method

@RunWith(PowerMockRunner.**class**)  
@PrepareForTest(ReconciliationReportWriter.**class**)  
@PowerMockIgnore(**"javax.management.\*"**)  
**public class** ReconciliationReportWriterTest {  
  
 **private** ReconciliationReportWriter **testObj**;  
  
 @Before  
 **public void** setup() **throws** Exception{  
 **testObj** = PowerMockito.*spy*(**new** ReconciliationReportWriter(**""**,**"report.csv"**));  
 PowerMockito.*doReturn*(**"file"**).when(**testObj**,**"generateReconReportFilePath"**, Mockito.*anyString*(), Mockito.*anyString*(), Mockito.*anyString*());  
 }  
  
 @Test(expected = IllegalArgumentException.**class**)  
 **public void** testWriteCSVFile() **throws** IOException {  
 List<String> list = **new** ArrayList<>();  
 list.add(**"csv1"**);  
 list.add(**"csv2"**);  
  
 **testObj**.writeCSVFile(list, **"report"**, LocalDate.*now*().toString(),**"reconcilation"**,**"reconcilation"**, Sets.*newSet*());  
 }  
}

Take reference from ReconciliationReportWriterTest

mvn dependency:tree | grep mockito

mvn clean install -P Existing -DskipTests –U

Power Mock to mock static & final

https://examples.javacodegeeks.com/core-java/mockito/powermock-mockito-integration-example/

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Sometime Power mock does not work

In that case jus tadd

<**dependency**>  
 <**groupId**>org.mockito</**groupId**>  
 <**artifactId**>mockito-core</**artifactId**>  
 <**version**>1.10.19</**version**>  
</**dependency**>

Mock private static method

Mock static void method

@RunWith(PowerMockRunner.**class**)  
@PrepareForTest({AppRunner.**class**, PropertyConfigurator.**class**})  
@PowerMockIgnore(**"javax.management.\*"**)  
**public class** AppRunnerTest {  
  
 @Before  
 **public void** setup() **throws** Exception{  
 PowerMockito.*mockStatic*(PropertyConfigurator.**class**);  
 PowerMockito.*doNothing*().when(PropertyConfigurator.**class**,**"configure"**, Mockito.*anyString*());  
 }  
 @Test(expected = SAXException.**class**)  
 **public void** testloadProcessXML() **throws** Exception{  
  
 PowerMockito.*spy*(AppRunner.**class**);  
 PowerMockito.*doThrow*(**new** SAXException()).when(AppRunner.**class**, **"loadProcessXML"**);  
 AppRunner.*main*(**new** String[1]);  
 }  
  
}

Perfect example of Private static & other combination

CalculationServiceManagerTest.java

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Simple Void method mock

CommonStaticDataLoadStrategyTest.class

**static** {  
 **try** {  
 Field field = Class.*forName*(**"javax.crypto.JceSecurity"**).getDeclaredField(**"isRestricted"**);  
 field.setAccessible(**true**);  
 field.set(**null**, java.lang.Boolean.***FALSE***);  
 } **catch** (Exception ex) {  
 }  
}

Mock Constructor

<https://stackoverflow.com/questions/41110804/how-to-mock-constructor-with-powermockito>

To acess Private method of any other class

*Field field = rvConnection.getClass().getDeclaredField("rvdTransport");  
 field.setAccessible(true);  
 field.set(rvConnection,rvdTransport);\*/*

Spring 4 Junit test to initialte Object from XML file

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Also check MarkeDataSnapTest.jav

**package** com.rbsgbm.rates.eodtasks.task;  
  
**import** org.junit.Assert;  
**import** org.junit.Test;  
**import** org.junit.runner.RunWith;  
**import** org.springframework.beans.factory.annotation.Autowired;  
**import** org.springframework.test.context.ContextConfiguration;  
**import** org.springframework.test.context.junit4.SpringJUnit4ClassRunner;  
  
**import** com.rbsgbm.rates.eodtasks.task.core.Arguments;  
**import** com.rbsgbm.rates.roehcore.args.IArguments;  
@org.junit.Ignore(**"Too Many failures, needs fixing."**)  
@RunWith(SpringJUnit4ClassRunner.**class**)  
@ContextConfiguration(locations = { **"classpath:core-proxy-test.xml"** })  
**public class** MDXFixingsDataSnapTaskTest {  
   
 **static**{  
 System.*setProperty*(**"application.propertyFileLocation"**, **"src/test/resources/ldn-dev.properties"**);  
 System.*setProperty*(**"application.override.propertyFileLocation"**, **"src/test/resources/ldn-dev-overrides.properties"**);  
 System.*setProperty*(**"application.overriddenTemplateFileLocation"**, **"src/test/resources/overridden\_templates.properties"**);  
 System.*setProperty*(**"application.overriddenTemplateFileLocation-overrides"**, **"src/test/resources/overridden\_templates-overrides.properties"**);  
   
 }  
   
 @Autowired  
 **private** MDXFixingsDataSnapTask **mdxFixingSnapTask**;  
   
 @Test  
 *//region=LDN action=MDXFixingsDataSnapTask node=SDM:99081 business\_event=INTRA* **public void** createFixingSnapshotTest(){  
 IArguments args=**new** Arguments(**new** String[] {  
 **"action=MDXFixingsDataSnapTask"**, **"region=LDN"**,  
 **"node=SDM:99081"**,**"business\_event=INTRA"**,  
 **"template\_name=CSTP\_BATCH\_TEMPLATE\_MDX.xml"** });  
 String snapshotId=**mdxFixingSnapTask**.createSnapshot(args);  
 Assert.*assertNotNull*(snapshotId);  
 }  
   
  
   
   
}

Perfect example of Mock Private variable only is

**public void** setup() {  
 *// MockitoAnnotations.initMocks(this);* **serviceProvider** = PowerMockito.*mock*(SecurityProvider.**class**);  
 **jmxAuthenticator** = **new** JMXAuthenticatorImpl(**serviceProvider**);  
}

Example

**package** com.rbs.ignite.business.itus.configurer;  
  
**import** com.rbs.rates.foundation.security.SecurityProvider;  
**import** org.junit.Before;  
**import** org.junit.Test;  
**import** org.mockito.Mock;  
**import** org.mockito.Mockito;  
**import** org.mockito.MockitoAnnotations;  
**import** org.powermock.api.mockito.PowerMockito;  
**import** org.springframework.security.authentication.AbstractAuthenticationToken;  
**import** org.springframework.security.core.GrantedAuthority;  
  
**import** java.util.Collection;  
  
*/\*\*  
 \* Created by kumaunn on 31/03/2018.  
 \*/***public class** JMXAuthenticatorImplTest1 {  
  
 **private** SecurityProvider **serviceProvider**;  
  
 **private** JMXAuthenticatorImpl **jmxAuthenticator**;  
  
 @Mock  
 **private** AbstractAuthenticationToken **authentication**;  
  
 @Mock  
 **private** Collection<GrantedAuthority> **grantedAuthorities**;  
  
 **private** String [] **credentials**;  
  
 @Before  
 **public void** setup() {  
 MockitoAnnotations.*initMocks*(**this**);  
 **serviceProvider** = PowerMockito.*mock*(SecurityProvider.**class**);  
 **jmxAuthenticator** = **new** JMXAuthenticatorImpl(**serviceProvider**);  
 }  
  
 @Test(expected = SecurityException.**class**)  
 **public void** testValidateCredentialsSecurityException() {  
 **jmxAuthenticator**.authenticate(**"TOTV"**);  
 }  
  
 @Test(expected = SecurityException.**class**)  
 **public void** testAuthenticateSecurityException() {  
 **credentials** = **new** String [] {**"TOTV"**, **"TOTV"**};  
 **jmxAuthenticator**.authenticate(**credentials**);  
 }  
  
 @Test  
 **public void** testAuthenticate() {  
 **credentials** = **new** String [] {**"TOTV"**, **"TOTV"**};  
 Mockito.*when*(**serviceProvider**.authenticate(**authentication**)).thenReturn(**authentication**);  
 Mockito.*when*(**authentication**.getAuthorities()).thenReturn(**grantedAuthorities**);  
 **jmxAuthenticator**.authenticate(**credentials**);  
 }  
}

Toughest Example to test

**package** com.rbs.ignite.business.itus.configurer;  
  
**import** com.rbs.gbm.rates.core.auth.security.AuthenticationService;  
**import** com.rbs.rates.foundation.security.SecurityProvider;  
**import** com.rbs.rates.foundation.security.rss.RssClient;  
**import** org.junit.Assert;  
**import** org.junit.Before;  
**import** org.junit.Test;  
**import** org.junit.runner.RunWith;  
**import** org.mockito.Mock;  
**import** org.mockito.MockitoAnnotations;  
**import** org.powermock.api.mockito.PowerMockito;  
**import** org.powermock.core.classloader.annotations.PowerMockIgnore;  
**import** org.powermock.core.classloader.annotations.PrepareForTest;  
**import** org.powermock.modules.junit4.PowerMockRunner;  
**import** org.springframework.security.core.Authentication;  
**import** org.springframework.security.core.GrantedAuthority;  
**import** org.springframework.security.core.context.SecurityContext;  
**import** org.springframework.security.core.context.SecurityContextHolder;  
  
**import** javax.security.auth.Subject;  
**import** java.util.Collection;  
  
*/\*\*  
 \* Created by kumaunn on 31/03/2018.  
 \*/*@RunWith(PowerMockRunner.**class**)  
@PrepareForTest({ SecurityContextHolder.**class**})  
@PowerMockIgnore({**"javax.management.\*"**, **"javax.security.\*"**})  
**public class** JMXAuthenticatorImplTest {  
  
 **private** JMXAuthenticatorImpl **jmxAuthenticator** ;  
 **private** SecurityProvider **serviceProvider**;  
  
 @Mock  
 **private** SecurityContext **context**;  
  
 @Mock  
 **private** AuthenticationService **service**;  
  
 @Mock  
 **private** RssClient **client**;  
  
 @Mock  
 **private** Authentication **authentication**;  
  
 @Mock  
 **private** Collection<GrantedAuthority> **grantedAuthorities**;  
  
 **private** String [] **credentials**;  
  
 @Before  
 **public void** setup() {  
 MockitoAnnotations.*initMocks*(**this**);  
 PowerMockito.*mockStatic*(SecurityContextHolder.**class**);  
 **serviceProvider** = **new** SecurityProvider(**service**, **client**, **"TOTV"**);  
 **jmxAuthenticator** = **new** JMXAuthenticatorImpl(**serviceProvider**);  
 }  
  
 @Test(expected = SecurityException.**class**)  
 **public void** testValidateCredentialsSecurityException() {  
 **jmxAuthenticator**.authenticate(**"TOTV"**);  
 }  
  
 @Test(expected = SecurityException.**class**)  
 **public void** testAuthenticateSecurityException() {  
 **credentials** = **new** String [] {**"TOTV"**, **"TOTV"**};  
 **jmxAuthenticator**.authenticate(**credentials**);  
 }  
  
 @Test  
 **public void** testAuthenticate() {  
 PowerMockito.*when*(SecurityContextHolder.*getContext*()).thenReturn(**context**);  
 PowerMockito.*when*(**context**.getAuthentication()).thenReturn(**authentication**);  
 **credentials** = **new** String [] {**"TOTV"**, **"TOTV"**};  
 Subject sub = **jmxAuthenticator**.authenticate(**credentials**);  
 Assert.*assertNotNull*(sub);  
 }  
}

Static Method of Final Class

@RunWith(PowerMockRunner.**class**)  
@PrepareForTest({TotvFileBasedInstrumentService.**class**,Files.**class**})  
@PowerMockIgnore({**"javax.management.\*"**})  
**public class** TotvFileBasedInstrumentServiceTest {  
  
 @Before  
 **public void** setup() {  
 *//PowerMockito.mockStatic(ClassLoader.class);* }  
 @Test  
 **public void** testGetInstrumentData() **throws** ItusException{  
 TotvFileBasedInstrumentService service = **new** TotvFileBasedInstrumentService();  
 Assert.*assertTrue*(service.getInstrumentData(**new** TotvFileBasedInstrumentInput(**"logback.xml"**), **"123233"**, **false**).size() > 0);  
 }  
  
 @Test(expected = URISyntaxException.**class**)  
 **public void** testGetInstrumentDataException() **throws** ItusException, URISyntaxException{  
 PowerMockito.*mockStatic*(Files.**class**);  
 Files files = PowerMockito.*mock*(Files.**class**);  
 PowerMockito.*when*(files.*exists*(Mockito.*any*(Path.**class**))).thenReturn(**true**);  
 TotvFileBasedInstrumentService service = **new** TotvFileBasedInstrumentService();  
 Assert.*assertTrue*(service.getInstrumentData(**new** TotvFileBasedInstrumentInput(**""** + **"logback.xml"**), **"123233"**, **false**).size() > 0);  
 }  
}

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To accept Argument Interface so need to follow

Set Private Fields

OdcIceTradeQueryExecutorTest.java

IArguments.java

To charry pick use below command like to get particular commit from any branch

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if and only if that commit is not Merge commit

git -c diff.mnemonicprefix=false -c core.quotepath=false cherry-pick 40b5f2ff416b0aa3e93b9f8390170cff59c1b82a

git -c diff.mnemonicprefix=false -c core.quotepath=false cherry-pick -m 1 5ae4c9d24f32537bb924743bbc660b4d6c0eb452

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If any folder is Saying Access denied means We need to give him Permissions

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If we are mentioning folder which is Programming Files then it will cause problem for that use

**c:\PROGRA~1**

VVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVVV

Life Savior part whenever Java functionality is not working Always

Use Pom’s file and there are multiple dependency in this case just Draw tree and remove those Functionalities

Linux xommand

1. ls -lrt | grep cache

**Cache Components**

Cache components can not be build on local. Just build on uat14c

Just change CAF version

Earlier /apps/IRDuatapps/caf/5.34.0.404625-32

Changed to:- /apps/IRDuatapps/caf/5.35.0.405790-32

TOTV Sign off

1. ODC sign off

Steps:-

1. To

Grep commands

grep -E "Could not create GDSEvent from message:" | grep -c "Exception creating GDSEvent MPDATES" CacheManager-lonrs10272.log\*

grep -E "ERROR" rates-workflow-lonrs07215\*| grep -c "FAIL-SAFE TRADE LOADER"

grep -E "Could not create GDSEvent from message:" CacheManager-lonrs10272.log\*

Jira Filter

1. project = IGNITE AND component = SystemX-Feed-Adaptor

**\*\*\*\*\*\*\*\*\*\*\*\*\*CONF NUMBER DETAILS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

Std International Dial-In Number:+44 (0) 203 4333758

India, Delhi :       01133781616

Singapore, All Cities :      65974636

Conference code: 567 922 1366 8638019596

Ya

Pin: 5252

Global Access Numbers Local:

India, Bangalore :             08033572607

India, Delhi :                       01133781616

India, Mumbai :                02230985855

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How to check whether Message is published to any Topic use

UEL:- <http://rdi/ems/index.jsp>

Server for both LDN & MNH across all UATs

tcp://lontestems4.fm.rbsgrp.net:7005

tcp://lontestems3.fm.rbsgrp.net:7005

User :- ird\_uat

Pwd:- ird\_uat05

**Archival/UnArchival Trades concept**

key.sourceSystem='GDS'

100054991

tradeReference = 'FRA140100054991'

statuses.value = 'Matured'

perfect example on prod

having 2 versions

1. 111724973

When trade gets matured then new version will be created in DF with validform -> lastversion valid to

validTo - > infinite

and trade status will be 'Matured' means it is not Archived

trade will be deleted from Latest collection after 10 days because job will be running every 10 days from Latest collection

in this case

When Trade is **Archived** from GDS then its transaction Status will be changed to “**Deleted**”

And it is already **deleted** from Latest collection

When we UnArchive any version of trade from GDS it just takes particular time series

Say we are Un archiving version 2 but in DF we have 6 versions then while Un archiving 2nd version time series will broken when it will saved in Main collection so in this way Upsert API will break so we need to use just Import API to import Un archived trade into main collection since using import API DF does not trigger Subscription event so trades will not be saved in Latest colletion

2. problematic trades

109656868 here we will not find 1st version since it may be Purged or will not be available in Oracle db since it is old trade

Start tomcat locally

1. change setenv.bat file C:\Neha-Work\REST\Rest-tomcat\bin
2. change server.xml C:\Neha-Work\REST\Rest-tomcat\conf
3. .if need to change any property we can do so

Run tomcat

1. Run setenv.bat
2. Catalina.bat run

Sachindra isse

\*CIB Data Fabric Platform Developers <CIBDataFabricPlatformDevelopers@rbs.com (CIBDataFabricPlatformDevelopers%40rbs.com)>

http://lonrs10455.fm.rbsgrp.net:8081/cache-utils/login?returnUrl=http://lonrs10455.fm.rbsgrp.net:8081/cache-utils/rest-test/post

ratesservsyn

london99

OTCTradeByGDSKeyLatestByAndMaxCacheVersion

<query>  
<and>  
<match field="source" value="GDS"/>  
<match field="gds\_key">  
<value>118810916.0</value>  
</match>  
<lessThanOrEq field="latest\_by" value="2018-01-26T14:50:24.000+00:00"/>   
</and>  
</query>

For particular trade’s PNL Query

<query>

<and>

<match field="site" value="LDN"/>

<match field="contract\_id" value="116373105">

</match>

<match field="organisation">

<value>SDM:103013</value>

<value>SDM:103014</value>

<value>SDM:107299</value>

<value>SDM:108974</value>

<value>SDM:103633</value>

</match>

<match field="fromsnap" value="561120"/>

<match field="tosnap" value="561447"/>

<not>

<match field="instrumenttype">

<value>STRAD</value>

</match>

</not>

<match field="status">

<value>New</value>

<value>Validated</value>

<value>Inventoried</value>

</match>

<match field="source">

<value>GDS</value>

</match>

</and>

</query>

To connect to other Data fabric DB & RS1 DB 6 properites

Use below properties mandatorly

rsLocalDataSourcePassword=FETCH\_PASSWORD| -S UOLNRSU2 -U RS1\_APP\_USER -m P

rsLocalDataSourceUrl=jdbc:oracle:thin:@ldap://oraldap.gslb.fm.rbsgrp.net:6501/UOLNRSU2,cn=OracleContext,dc=fm,dc=rbsgrp,dc=net

rsLocalDataSourceUserName=RS1\_APP\_USER

------------------------------------ Rebounce component

If process is not stopping then kill the process by

ssh lonrs10425

ps afx | grep rates-rest | grep uat14c

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Trade has priciable component which is binary array that attribute is used by Fire to compute Risk

Every GDS trade has priciable attribute but System X does not have this field for that System X Field adapter component sends request to CAF which calculate price then stamp on Trade as Priciable attribute

<soapenv:Envelope xmlns:soapenv="<http://schemas.xmlsoap.org/soap/envelope/>" xmlns:trad="<http://trading.services3.rates.gbm.rbs.com>" xmlns:sec="<http://security.common.rates.gbm.rbs.com>" xmlns:dat="<http://dates.rates.gbm.rbs.com>">

   <soapenv:Header/>

   <soapenv:Body>

      <trad:getTradeFromEditHistory>

         <trad:in0>

            <sec:assumedUser>true</sec:assumedUser>

            <sec:hostName>DELMW64221</sec:hostName>

            <sec:requestId>test\_sachindra</sec:requestId>

            <sec:ssoToken>SdiMkosi2NYICJDlUmUaAZXNWtBmagvZiU0GfeRw1NQVNcQEb/EUvJ0mtWFMAhC67sOsRoGAjgrrRPI0EqG2jdd8mRLD6a/yA8QDkghptRHw6Sx6fBhLEHeLGlDvnTGdF0lszAV5M0ZJpmVeiCN8l8Nf85C+zDvgcgqk1fOJIUI=|0|qa\_fo1|RatesTrader|20180425104751|86400|</sec:ssoToken>

         </trad:in0>

         <trad:in1>GDSLDN</trad:in1>

         <trad:in2>119251487</trad:in2>

         <trad:in3>1</trad:in3>

         <trad:in4>

            <dat:date>43172</dat:date>

            <dat:hours>16</dat:hours>

            <dat:minutes>10</dat:minutes>

            <dat:seconds>48</dat:seconds>

            <dat:timeZone>NONE</dat:timeZone>

         </trad:in4>

      </trad:getTradeFromEditHistory>

   </soapenv:Body>

</soapenv:Envelope>

RT history screen is misleading

[‎24/‎04/‎2018 17:05] Pratap, Sachindra (NatWest Markets):

/apps/IRDtools/script/sp\_login -S UOLNRSU4 -U RS1\_APP\_USER -m P

Below user has all permission

ratesservsyn  
london99

RatesServices

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/200

1/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soapenv:Body>

<getTradeFromEditHistory xmlns="http://trading.services3.rates.gbm.rbs.com">

<in0>

<ns1:assumedUser xmlns:ns1="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

<ns2:hostName xmlns:ns2="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

<ns3:requestId xmlns:ns3="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

<ns4:ssoToken xmlns:ns4="http://security.common.rates.gbm.rbs.com">FHCt7DOZCiSJMqZ8X+HJ+u5zhslwYZfyssFO8SVXrtSKM8g0rXJOu+GBe5hbF9P8XYGc3Ok+86Vxwp4fW0SzbC6F2YaFGh/nTCeWqhk4UJBU2yRCFQ9cB2AiCznu41ugF1Mt2uoc1SrwAubM6U+NhqL29uyeHF4GzBC3csYrX2I=|0|qa\_fo1|RatesTrader|20180426060721|86400|</ns4:ssoToken>

</in0>

<in1>GDSLDN</in1>

<in2>119251487</in2>

<in3>1</in3>

<in4><date xmlns="http://dates.rates.gbm.rbs.com">43172</date><hours xmlns="http://dates.rates.gbm.rbs.com">16</hours><minutes xmlns="http://dates.rates.gbm.rbs.com">10</minutes><seconds xmlns="http://dates.rates.gbm.rbs.com">48</seconds><timeZone xmlns="http://dates.rates.gbm.rbs.com">NONE</timeZone></in4>

</getTradeFromEditHistory>

</soapenv:Body>

</soapenv:Envelope>

Use below to generate SSO token

vtest\_mo or qa\_fo1

vtest\_mo qa\_fo1

RatesTrader RatesTrader

<soap:Envelope xmlns:soap="http

://schemas.xmlsoap.org/soap/envelope/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

<soap:Body>

<getOTCInstrumentSummaryByCriteriaAndFlags xmlns="http://trading.services3.rates.gbm.rbs.com">

<in0>

<assumedUser xmlns="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

<hostName xmlns="http://security.common.rates.gbm.rbs.com">DELMW17868</hostName>

<requestId xmlns="http://security.common.rates.gbm.rbs.com">RatesTrader [1.45.1.18]. 4048..DELMW17868.636608655193958397</requestId>

<ssoToken xmlns="http://security.common.rates.gbm.rbs.com">rNtpdzAUkxVaeV0vBEYOYAPj0SZi9jooRhC+e2Llvd5XYDX7MyAJ1P9RTsgK/9T4LXJBLHs0YoWccFCAFCTcssnelW07va/xUjA9HMcv0wAuqEK0nml1TSf/YId6ygVmyWfALsFOWWZg7UMmX1x+4/Yi2CFbZyUsncmQbuNm3zI=|0|qa\_fo1|RatesTrader|20180504065900|86400|</ssoToken>

</in0>

<in1>GDSLDN</in1>

<in2>

<QueryCriteria xmlns="http://query.domain.services.rates.gbm.rbs.com">

<criteriaName>contract\_id</criteriaName>

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<queryValue>

<string xmlns="http://trading.services3.rates.gbm.rbs.com">119251487</string>

</queryValue>

</QueryCriteria>

</in2>

<in3/>

</getOTCInstrumentSummaryByCriteriaAndFlags>

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1/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

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<ns2:hostName xmlns:ns2="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

<ns3:requestId xmlns:ns3="http://security.common.rates.gbm.rbs.com" xsi:nil="true"/>

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</in0>

<in1>GDSLDN</in1>

<in2>

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<criteriaName>contract\_id</criteriaName>

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</queryValue>

</QueryCriteria>

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</QueryCriteria>

</in2>

<in3/>

</getOTCInstrumentSummaryByCriteriaAndFlags >

</soapenv:Body>

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