

Oracle® Communications
EAGLE Element Management System Reporting Studio
Upgrade/Installation Guide
Release 46.6
E95660 Revision 1

April 2018

ORACLE®

Copyright © 2013, 2018, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notices are applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to thirdparty content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.



CAUTION: Use only the guide downloaded from the Oracle Technology Network (OTN) (<http://www.oracle.com/technetwork/indexes/documentation/oracle-comms-tekelec-2136003.html>). **Before upgrading your system, access the My Oracle Support web portal (<https://support.oracle.com>) and review any Knowledge Alerts that may be related to the System Health Check or the Upgrade.**

Before beginning this procedure, contact My Oracle Support and inform them of your upgrade plans.

Refer to Appendix A for instructions on accessing My Oracle Support.

Contents

1.0	Introduction.....	7
1.1	Purpose and Scope	7
1.2	Acronyms and Terminology.....	7
2.0	Installation/Upgrade of Reporting Studio R46.5 (i-net Clear Reports 15.x).....	8
2.1	Pre-Requisite	8
2.2	Installation of Reporting Studio.....	9
2.3	Configuration of i-net Clear Reports	19
2.4	Upgradation of Reporting Studio	38
2.4.1	When i-net Clear Reports 15.x is running with non-root user	38
2.4.2	When i-net Clear Reports 15.x is running with root user (only possible in case i-net 15.x has been upgraded from i-net 12.x)	55
3.0	Checking if i-net 17 is installed or not	78
4.0	starting the i-net 17 Service	79
5.0	UnINSTALLING I-NET 17.....	80
6.0	APPENDIX A: My Oracle Support.....	81

List of Tables

Table 1: Acronyms and Terminology	7
---	---

List of Figures

Figure 1: Blank Output of netstat command.....	9
Figure 2: Non-Blank Output of netstat command.....	9
Figure 3: Killing of the process	9
Figure 4: Unzipping the Reporting Studio Zip	10
Figure 5: Verifying the contents of reporting-studio directory	10
Figure 6: Installing the i-net Clear Reports RPM	11
Figure 7: Copying the E5msFilter jar and NmsServerClasses jar.....	11
Figure 8: Copying the mysql-connector jar	11
Figure 9: Copying the authentication.script.zip plugin	12
Figure 10: Changing the i-net User.....	12
Figure 11: Restarting the i-net Service	12
Figure 12: i-net Clear Reports home page	13
Figure 13: i-net Clear Reports Setup window.....	14
Figure 14: Opening the webconfig.txt file	14

Figure 15: Copying the UUID	14
Figure 16: Pasting the UUID in the UUID text box.....	15
Figure 17: Product License and Webserver Settings	16
Figure 18: Edit License Icon.....	16
Figure 19: Entering the i-net Clear Reports 17.x License.....	17
Figure 20: Changing the port from 80 to 9000	17
Figure 21: i-net Clear Reports installation completed	18
Figure 22: Click on the “Open Startpage” button	19
Figure 23: i-net Clear Reports Start Page	20
Figure 24: Username and Password prompt	20
Figure 25: Configuration window of i-net Clear Reports	21
Figure 26: Switch to Advanced View	22
Figure 27: Advance View of Configuration	22
Figure 28: Manage Button	23
Figure 29: Manage Configurations window	23
Figure 30: Add Permissions for a user.....	24
Figure 31: Add Permissions for a user: adding ‘root’ user	25
Figure 32: System Permissions Screen - Add 'root' user	25
Figure 33: Enabling the Task Planner Module	26
Figure 34: Enabling Script Authentication	27
Figure 35: Restart i-net Server.....	27
Figure 36: Add Repository option	28
Figure 37: Folder icon as seen on extreme right for browsing the path.....	29
Figure 38: Browse to the path “/Tekelec/WebNMS/reportingStudio/”	29
Figure 39: Adding the “com.tekelec.e5ms.filter.E5msFilter” filter	31
Figure 40: Added the “com.tekelec.e5ms.filter.E5msFilter” filter	31
Figure 41:Restarting the i-net Service	32
Figure 42: Reload/Refresh i-net Clear Reports in the browser window	32
Figure 43: Selecting the “Internal Webserver” option.....	33
Figure 44: Login required to access popup.....	33
Figure 45: Reporting Studio” link available in top menu bar	34
Figure 46: “Data Sources” option	34
Figure 47: Adding new data source	35
Figure 48:Selecting the MySQL driver.....	35
Figure 49: Connection Test Successful.....	36
Figure 50: Ok to add e5msdb data source.....	36
Figure 51: “e5msdb” data source successfully added.....	37
Figure 52: Uninstalling i-net Clear Reports 15.x.....	38
Figure 53: Removing i-net 15.x installation directory	38
Figure 54: Blank Output of netstat command.....	38
Figure 55: Non-Blank Output of netstat command.....	39
Figure 56: Killing of the process	39
Figure 57: Unzipping the Reporting Studio Zip	39
Figure 58: Verifying the contents of reporting-studio directory	39

Figure 59: Installing the i-net Clear Reports RPM	40
Figure 60: Copying the E5msFilter jar and NmsServerClasses jar.....	40
Figure 61: Copying the mysql-connector jar	40
Figure 62: Copying the authentication.script.zip plugin	41
Figure 63: Changing the i-net User.....	41
Figure 64: Restarting the i-net Service	42
Figure 65: Removing Tasks	42
Figure 66: Restarting i-net Service	42
Figure 67: i-net Clear Reports home page	43
Figure 68: i-net Clear Reports Setup window.....	44
Figure 69: Opening the webconfig.txt file	44
Figure 70: Copying the UUID	44
Figure 71: Pasting the UUID in the UUID text box.....	45
Figure 72: Product License Screen	46
Figure 73: Edit License Icon.....	46
Figure 74: Entering the i-net Clear Reports 17.x License.....	47
Figure 75: Changing the port from 80 to 9000	47
Figure 76: i-net Clear Reports installation completed	48
Figure 77: Start Page	49
Figure 78: Login Required to Access	49
Figure 79: Reporting Studio" link available in top menu bar	50
Figure 80: Click on Configuration	50
Figure 81: Switch to Advanced View	51
Figure 82: Click on License option.....	51
Figure 83: Delete the old i-net 15.x License	52
Figure 84: Active License of i-net 17.x	53
Figure 85: i-net 15.x "Default" Configuration migrated to i-net 17.x.....	53
Figure 86: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x	54
Figure 87: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner.....	54
Figure 88: Uninstalling i-net Clear Reports 15.x.....	55
Figure 89: Removing i-net 15.x installation directory	55
Figure 90: Blank Output of netstat command	55
Figure 91: Non-Blank Output of netstat command.....	56
Figure 92: Killing of the process	56
Figure 93: Unzipping the Reporting Studio Zip	56
Figure 94: Verifying the contents of reporting-studio directory	56
Figure 95: Installing the i-net Clear Reports RPM	57
Figure 96: Copying the E5msFilter jar and NmsServerClasses jar.....	57
Figure 97: Copying the mysql-connector jar	57
Figure 98: Copying the authentication.script.zip plugin	58
Figure 99: Changing the i-net User.....	58
Figure 100: Restarting the i-net Service with root user	59
Figure 101: Restarting the i-net Service with non-root user	59
Figure 102: Deleting Configurations of root user	59

Figure 103: Deleting Configurations of non-root user.....	60
Figure 104: Copying Configurations of root user	60
Figure 105: Copying Configurations of non-root user.....	60
Figure 106: Copying Configurations of non-root user.....	61
Figure 107: Changing Permissions	61
Figure 108: Deleting Tasks of root user	61
Figure 109: Deleting Tasks of non-root user	61
Figure 110: Restarting the i-net Service with root user	62
Figure 111: Restarting the i-net Service with non-root user	62
Figure 112: i-net Clear Reports home page	63
Figure 113: i-net Clear Reports Setup window.....	64
Figure 114: Opening the webconfig.txt file with root user	64
Figure 115: Opening the webconfig.txt file with non-root user.....	65
Figure 116: Copying the UUID	65
Figure 117: Pasting the UUID in the UUID text box.....	65
Figure 118: Product License Screen	66
Figure 119: Edit License Icon.....	67
Figure 120: Entering the i-net Clear Reports 17.x License.....	67
Figure 121: Changing the port from 80 to 9000	68
Figure 122: i-net Clear Reports installation completed	68
Figure 123: Start Page	69
Figure 124: Login Required to Access	69
Figure 125: Reporting Studio” link available in top menu bar	70
Figure 126: Click on Configuration.....	71
Figure 127: Switch to Advanced View	71
Figure 128: Click on License option.....	72
Figure 129: Delete the old i-net 15.x License	73
Figure 130: Active License of i-net 17.x	74
Figure 131: i-net 15.x Configuration migrated to i-net 17.x under USER(ROOT)	74
Figure 132: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(root) tab.....	75
Figure 133: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner.....	75
Figure 134 : i-net 15.x Configuration migrated to i-net 17.x under USER(<NON-ROOT USER>).....	76
Figure 135: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(<non-root user>) tab	76
Figure 136: -net 15.x Scheduler tasks migrated to i-net 17.x Task Planner.....	77
Figure 137: Checking if i-net is installed or not	78
Figure 138: Starting the i-net Service with root user	79
Figure 139: Starting the i-net Service with non-root user.....	79
Figure 140: Uninstalling i-net 17.....	80

1.0 INTRODUCTION

1.1 Purpose and Scope

The scope of this document is to describe the installation, upgrade and configuration of Reporting Studio release 46.6 to be used with release 46.6 of OCEEMS.

1.2 Acronyms and Terminology

TERM	DESCRIPTION
Ad Hoc Reporting	Creating reports on the fly without any predefined template.
Configuration	Managing i-net Clear Reports configurations. A configuration contains all options to configure i-net Clear Reports.
Data Source Configuration	Configuring the data sources to be used for report generation.
OCEEMS Reporting Studio	Term used for all the reporting features accessible from OCEEMS
Report Designer	An interface for designing and editing report templates files.
Repository	Directory containing existing reporting templates
Task Planner	Scheduling/Planning report templates to generate reports at desired time.
Template	i-net Clear Reports template (.rpt format) for creating report.

Table 1: Acronyms and Terminology

2.0 INSTALLATION/UPGRADE OF REPORTING STUDIO R46.5 (I-NET CLEAR REPORTS 15.X)

Reporting Studio 46.6 is based on i-net Clear Reports version 17.x. The earlier versions of Reporting Studio were based on i-net Clear Reports version 15.x. Therefore, an upgrade path shall also be available for customers using version 46.3,46.5 of Reporting Studio. Customers using version 46.6 need not to upgrade Reporting Studio.

2.1 PRE-REQUISITE

‘netstat’ command must be installed on the system.

1. Disk space requirement in /tmp

To run i-net Clear Reports version 17.x, the size of ‘/tmp’ directory should be greater than 1GB. This is a system requirement for i-net Clear reports and cannot be changed.

2. Contents of Reporting Studio zip file

The following items shall be available inside the Reporting Studio 46.6 ISO

S. No.	ITEM	NAME	PURPOSE
1	i-net Clear Reports 17 RPM	clear-reports-server- <version>.rpm Current name is clear-reports- server-17.1.209.rpm	Installation RPM for i-net Clear Reports
2	E5MS Filter Jar	E5msFilter-<version>.jar	Used for Reporting Studio functionality
3	NMS Server Classes Jar	NmsServerClasses.jar	Used for Reporting Studio functionality
4	MySQL JDBC Connector Jar	mysql-connector-java.jar	Used to create connection to EAGLE Element Management System’s database
5	Authentication Plugin	authentication.script.zip	Used for Reporting Studio functionality

The i-net Clear Reports installation RPM (item 1 in above table) shall be used for installation/upgrade of i-net Clear Reports 15.x. The rest of the items in the zip file (items 2, 3, 4 and 5 in above table) shall be used after installation of i-net Clear Reports.

3. License key from i-net Clear reports

A valid license for i-net Clear Reports version 17.x should be available on the system before proceeding with installation/upgrade to Reporting Studio 46.6. In case the license for i-net Clear Reports version 17.x is not available, contact My Oracle Support. Refer to Appendix A for instructions on accessing My Oracle Support.

2.2 Installation of Reporting Studio

The steps for installation of Reporting Studio 46.6 are given below. **These steps should be performed by super user 'root'.**

1. In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000.

Run the below command:

```
# netstat -tulpn|grep 9000
```

- a) If output of the above command is blank, as shown below, then skip the Step 2:

```
[root@e5ms69 bin]# netstat -tulpn|grep 9000
[root@e5ms69 bin]#
```

Figure 1: Blank Output of netstat command

- b) If output of the above command is like, as shown below, then move to the Step 2:

```
tcp6    0    0 :::9000          :::*              LISTEN          17869/java
```

In the above output, the number “17869” is the PID of the process.

```
[root@e5ms69 inet17.1.146rpm]# netstat -tulpn|grep 9000
tcp6    0    0 :::9000          :::*              LISTEN          17869/java
[root@e5ms69 inet17.1.146rpm]#
```

Figure 2: Non-Blank Output of netstat command

2. Run the below command, to kill the process in the Step 1.b.

```
# kill -9 <PID of the process at step 1.b>
```

e.g. kill -9 17869

```
[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#
```

Figure 3: Killing of the process

3. Unzip the Reporting Studio zip file to the “reporting-studio” directory, using the command given below:

```
# unzip <reporting studio zip> -d reporting-studio
```

```
[root@e5ms69 RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive:  reporting-46.6.0.0.0-466.6.0.zip
  inflating: reporting-studio/clear-reports-server-17.1.209.rpm
 extracting: reporting-studio/authentication.script.zip
  inflating: reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
  inflating: reporting-studio/NmsServerClasses.jar
  inflating: reporting-studio/mysql-connector-java.jar
[root@e5ms69 RPMs]#
```

Figure 4: Unzipping the Reporting Studio Zip

4. Move to the new “reporting-studio” directory created in above step and verify the contents of reporting studio zip file by running the following command:

```
# cd reporting-studio
# ll
```

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# ll
total 110884
-rw-r--r-- 1 root root    31882 Dec 18 11:32 authentication.script.zip
-rw-r--r-- 1 root root 103855909 Dec 18 11:43 clear-reports-server-17.1.209.rpm
-rw-r--r-- 1 root root    7933 Mar 29 2016 E5msFilter-46.6.0.0.0-466.6.0.jar
-rw-r--r-- 1 root root   960374 Jan 20 2015 mysql-connector-java.jar
-rw-r--r-- 1 root root  8682589 Jan 21 2015 NmsServerClasses.jar
[root@e5ms69 reporting-studio]#
```

Figure 5: Verifying the contents of reporting-studio directory

5. Now, when you are inside the same “reporting-studio” directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

```
# rpm -ivh <Reporting Studio RPM>
```

```

[root@e5ms69 reporting-studio]# rpm -ivh clear-reports-server-17.1.209.rpm
Preparing...                               ##### [100%]
Updating / installing...
   1:clear-reports-server-17.1.209-1       ##### [100%]
Removed old APACHE-Configuration of previous product installation
Starting clear-reports (via systemctl):    [ OK ]
.....
#####
#
#
#      Continue setup using the following URL in a browser:
#      http://localhost:9000/setup/1bf2dec6-f4e9-4ce3-ba8a-fd4b595ee326
#
#
#####
[root@e5ms69 reporting-studio]#

```

Figure 6: Installing the i-net Clear Reports RPM

6. Inside the “reporting-studio” directory, run the following command to copy the “E5msFilter-<version>.jar” and the “NmsServerClasses.jar” to the “<i-net Installation Directory>/lib” folder.

```
# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
```

```

[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
[root@e5ms69 reporting-studio]# █

```

Figure 7: Copying the E5msFilter jar and NmsServerClasses jar

7. Inside the “reporting-studio” directory, run the following command to copy the “mysql-connector-java.jar” to the “<i-net Installation Directory>/lib/driver” folder.
Enter ‘y’ when asked to overwrite.

```
# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
```

```

[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite '/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#

```

Figure 8: Copying the mysql-connector jar

8. Inside the “reporting-studio” directory, run the following command to copy the “authentication.script.zip” plugin to the “<i-net Installation Directory>/plugins” folder.
Enter ‘y’ when asked to overwrite.

```
# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/
```

```
[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/  
cp: overwrite '/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y  
[root@e5ms69 reporting-studio]#
```

Figure 9: Copying the authentication.script.zip plugin

9. Go to “/Tekelec/WebNMS/bin” directory and run the script “updateInetUser.sh” to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

```
# cd /Tekelec/WebNMS/bin
```

```
# sh updateInetUser.sh
```

```
[root@e5ms69 reporting-studio]# cd /Tekelec/WebNMS/bin  
[root@e5ms69 bin]# sh updateInetUser.sh  
  
This scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS.  
The i-net User is changed to emsuser. emsuser can now operate the i-net 17.  
  
[root@e5ms69 bin]#
```

Figure 10: Changing the i-net User

10. Create a new session and login with the non-root user (i.e. the i-net non-root user which is same as that of OCEEMS user).
11. Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the non-root user, to restart the i-net service.

```
# cd /Tekelec/WebNMS/bin
```

```
# sh inetService.sh restart
```

```
[emsuser@e5ms69 ~]$ cd /Tekelec/WebNMS/bin  
[emsuser@e5ms69 bin]$ sh inetService.sh restart  
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.  
[ OK ]  
[emsuser@e5ms69 bin]$
```

Figure 11: Restarting the i-net Service

12. Open URL **http://<IPAddress_of_Server>:9000** for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:

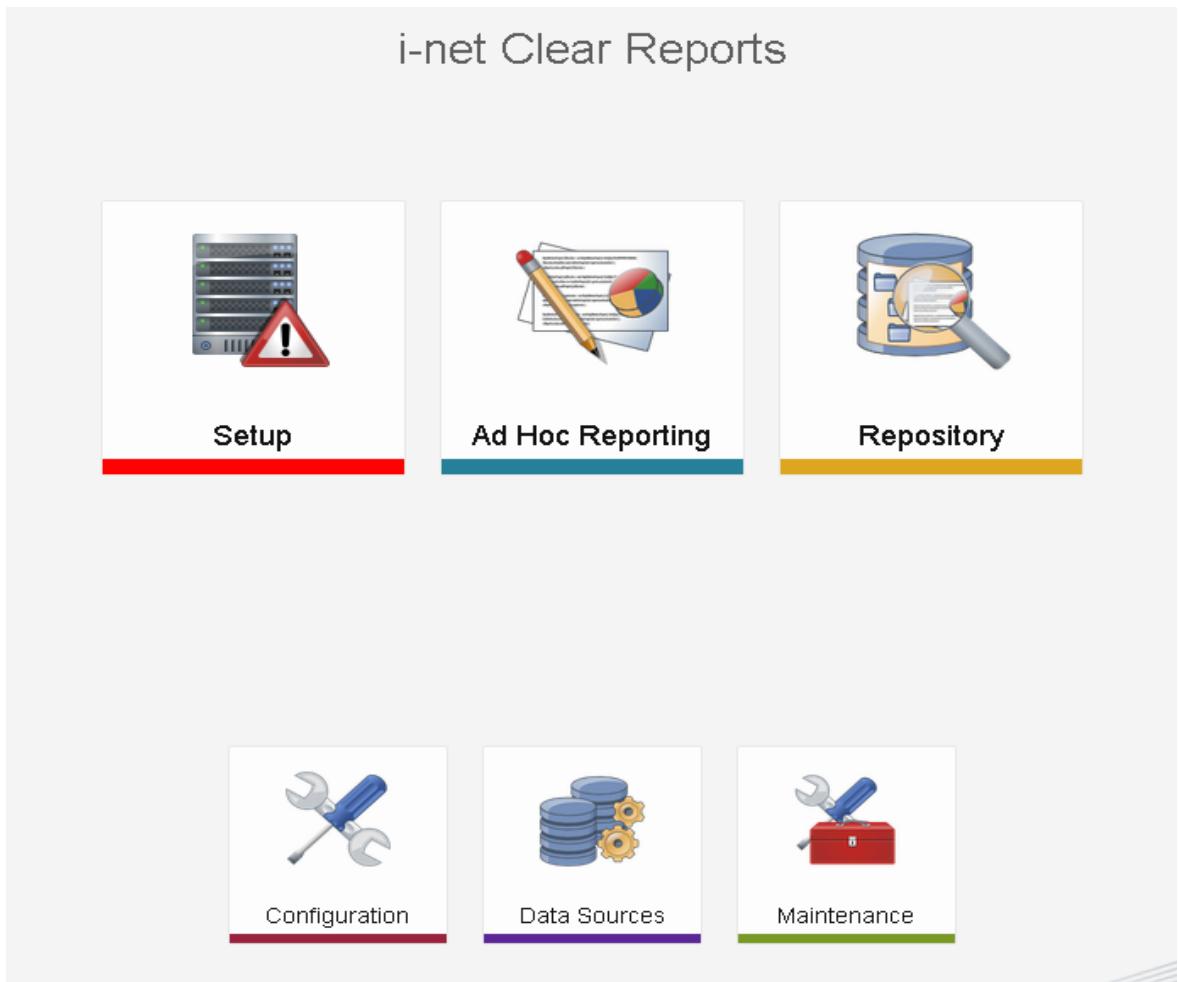


Figure 12: i-net Clear Reports home page

13. Click on “Setup” option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:



Figure 13: i-net Clear Reports Setup window

14. Login with the non-root user and go to “i-net installation directory”. Run the following commands to open the “webconfig.txt” file.

```
# cd /usr/share/i-net-clear-reports/  
# vi webconfig.txt
```

```
[emsuser@e5ms69 bin]$ cd /usr/share/i-net-clear-reports/  
[emsuser@e5ms69 i-net-clear-reports]$ vi webconfig.txt  
[emsuser@e5ms69 i-net-clear-reports]$
```

Figure 14: Opening the webconfig.txt file

15. After opening the “webconfig.txt” file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:

```
PROTOCOL http  
ADDRESS localhost  
PORT 9000  
UUID 59071d47-3153-41ee-95a1-2747f95c6343
```

Figure 15: Copying the UUID

16. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



i-net Clear Reports Setup

Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:

`/usr/share/i-net-clear-reports/webconfig.txt`

Figure 16: Pasting the UUID in the UUID text box

Click on the “Start” button as shown in the above screenshot, after pasting the UUID.

17. On clicking on the “Start” button in the previous step, it will continue with the Setup and ask for the “Product License” and “Webserver Settings” as shown below:




i-net Clear Reports Setup

Thank you for the installation. Before the server can operate some settings must be configured. Please check the data and complete them if necessary.

▼ **PRODUCT LICENSE**

No valid license key entered.



Could not download a Trial License. Please visit our website at www.inetsoftware.de if you want a Trial License and then enter it here. Copy the exact URL to a system with internet access if required.

[Continue to Webserver settings](#)

► **WEBSERVER SETTINGS**

[Execute](#)

Figure 17: Product License and Webserver Settings

18. Enter the i-net Clear Reports 17.x Product License, by clicking on the “Edit” icon as shown below:

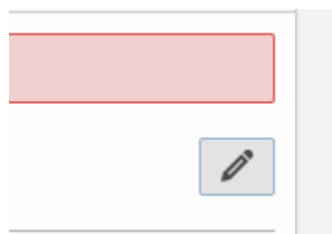


Figure 18: Edit License Icon

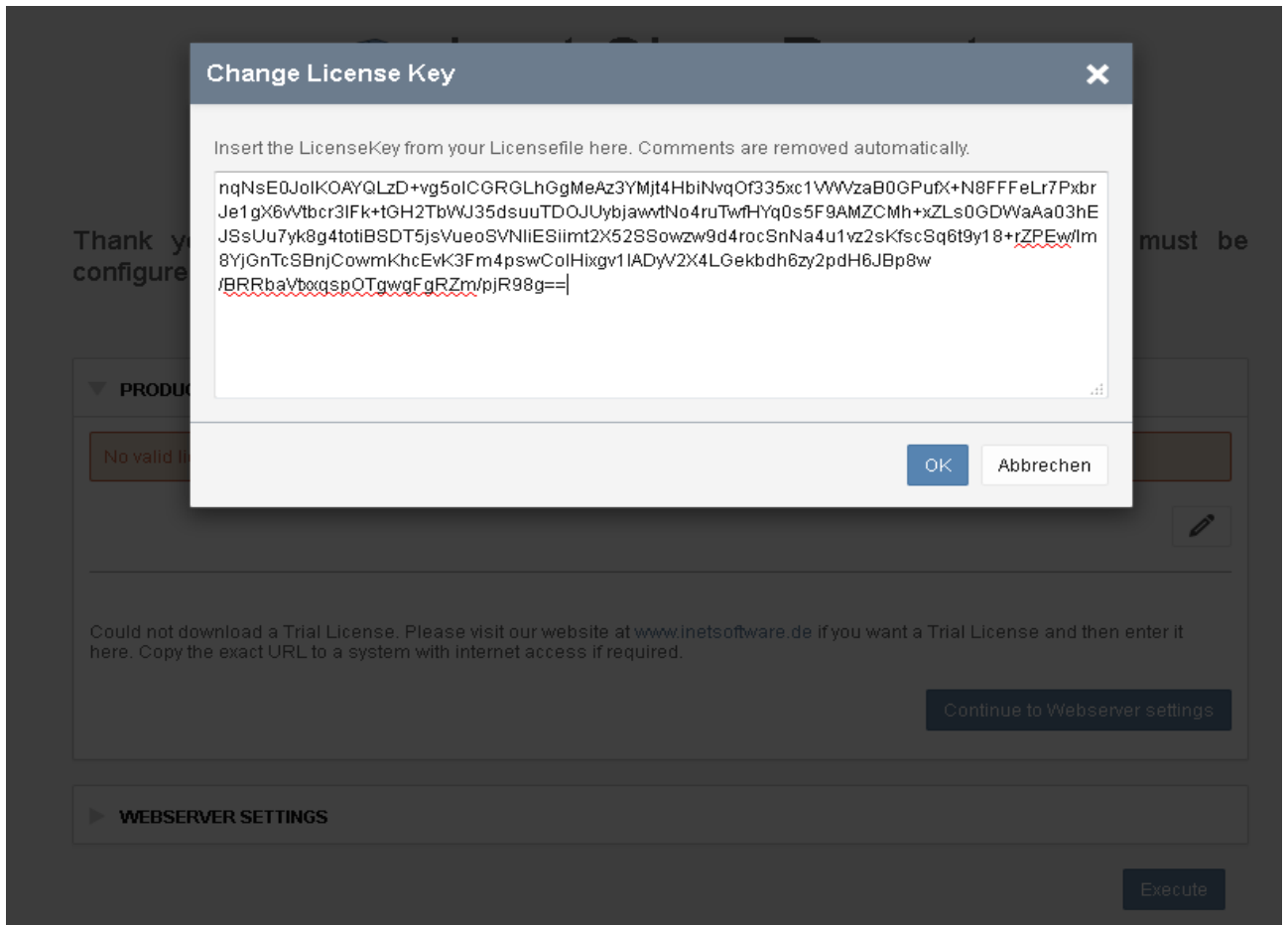


Figure 19: Entering the i-net Clear Reports 17.x License

Click “OK” after entering the License.

19. Open the “Webserver Settings” and change the port from 80 to 9000, as shown below:

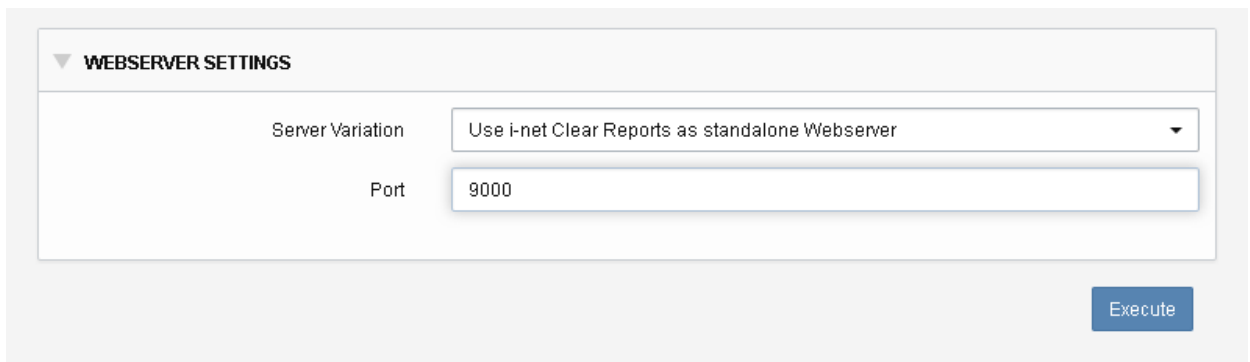


Figure 20: Changing the port from 80 to 9000

Click the “Execute” button as shown in above screenshot, after changing the Port.

20. After clicking on the “Execute” button in the previous step, the i-net Clear Reports installation will complete as shown below:



Figure 21: i-net Clear Reports installation completed

2.3 Configuration of i-net Clear Reports

1. After the successful installation of i-net Clear Reports, click on the “Open Startpage” button to open the i-net Clear Reports Start Page.

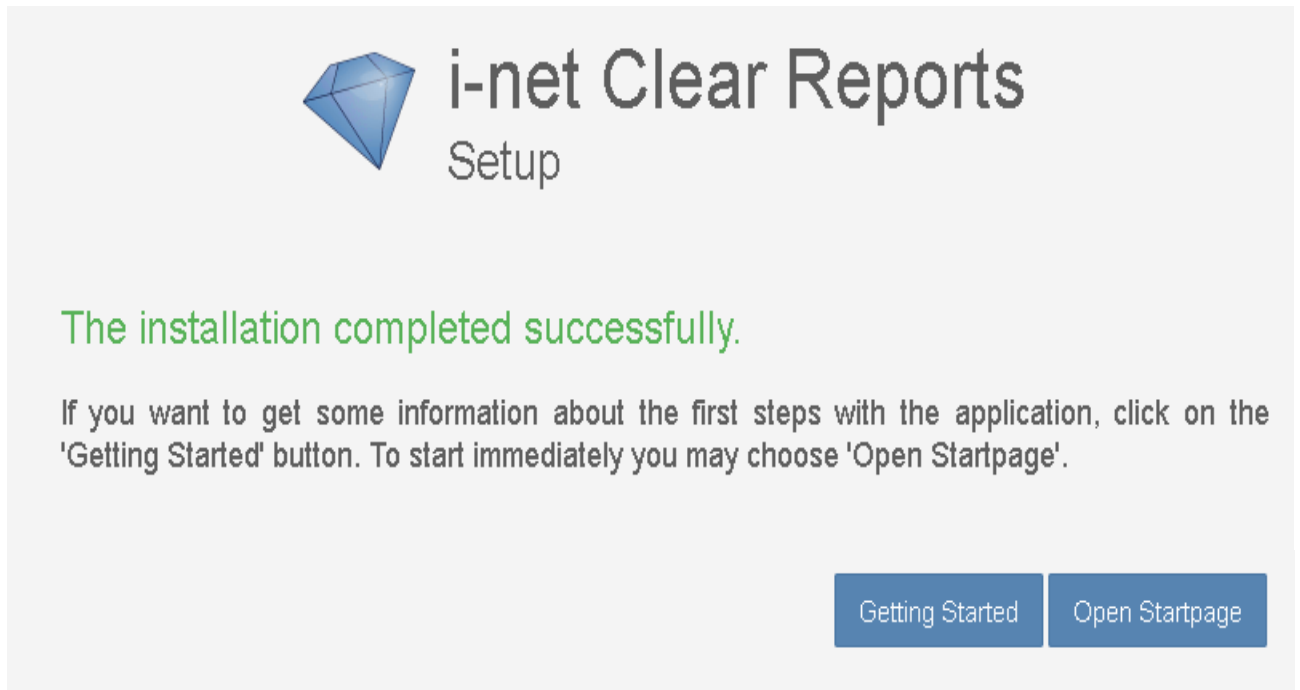


Figure 22: Click on the “Open Startpage” button

2. On clicking “Open Startpage” in the previous step, the following window will appear:



Figure 23: i-net Clear Reports Start Page

Click on the “Configuration” as shown above in the screenshot.

3. On clicking on “Configuration” in the previous step, it will show the prompt for entering the username and password. Enter the non-root username and password and click “OK”.

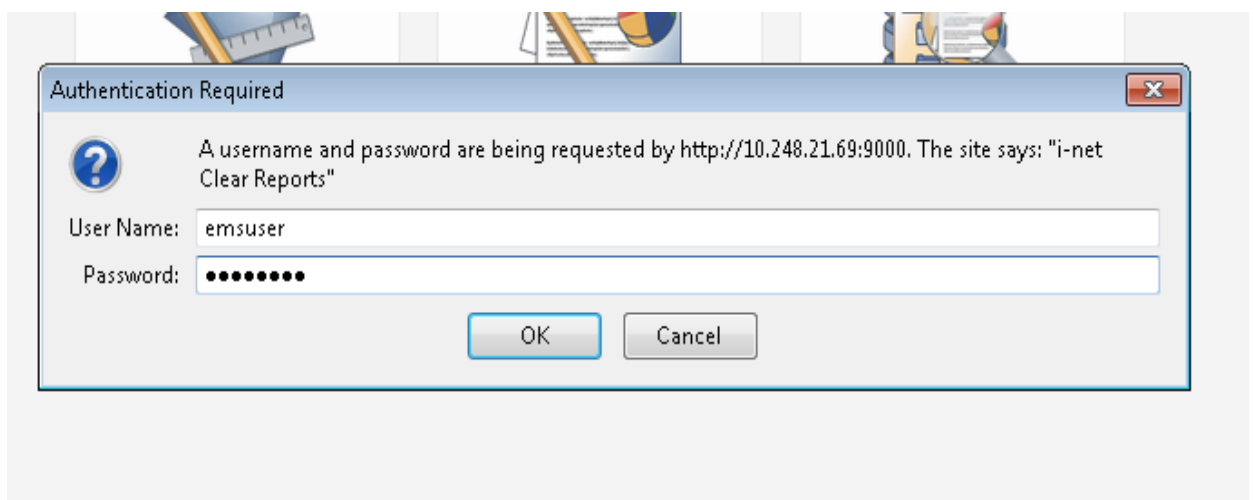


Figure 24: Username and Password prompt

4. On entering username and password and clicking on “OK” in the previous step, the i-net “Configuration” window will appear.

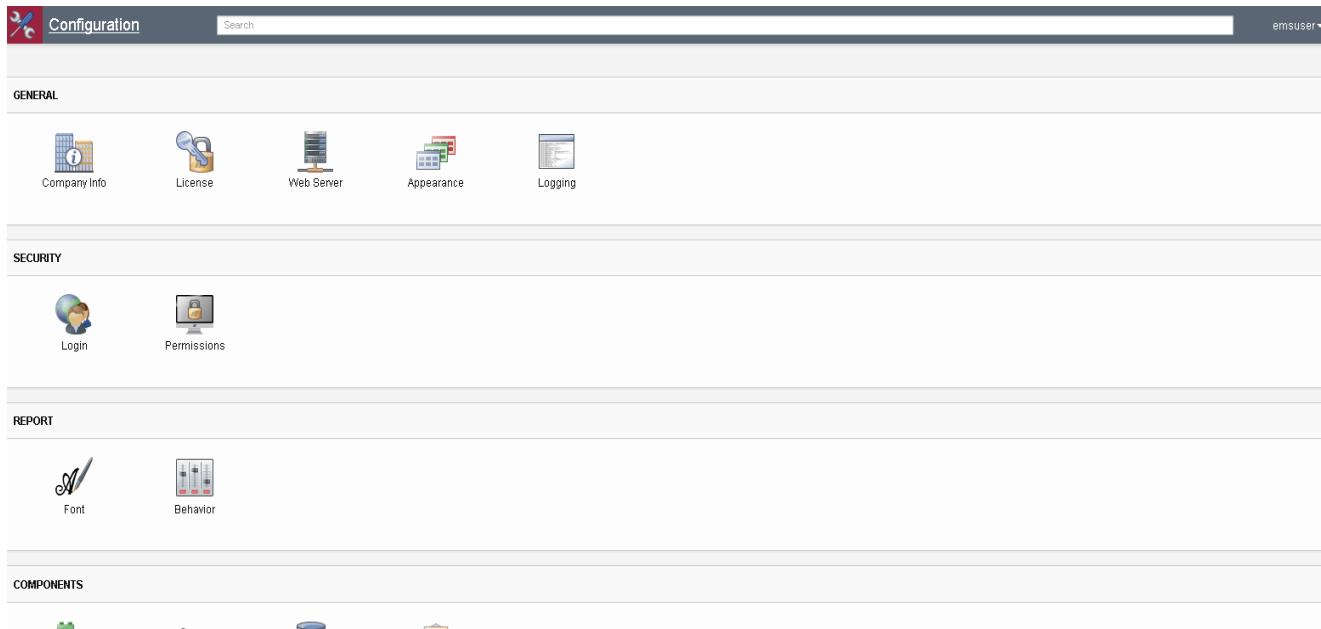


Figure 25: Configuration window of i-net Clear Reports

5. Go to top right corner of the “Configuration” window, click on the non-root user mentioned and then click “Switch to Advanced View”.

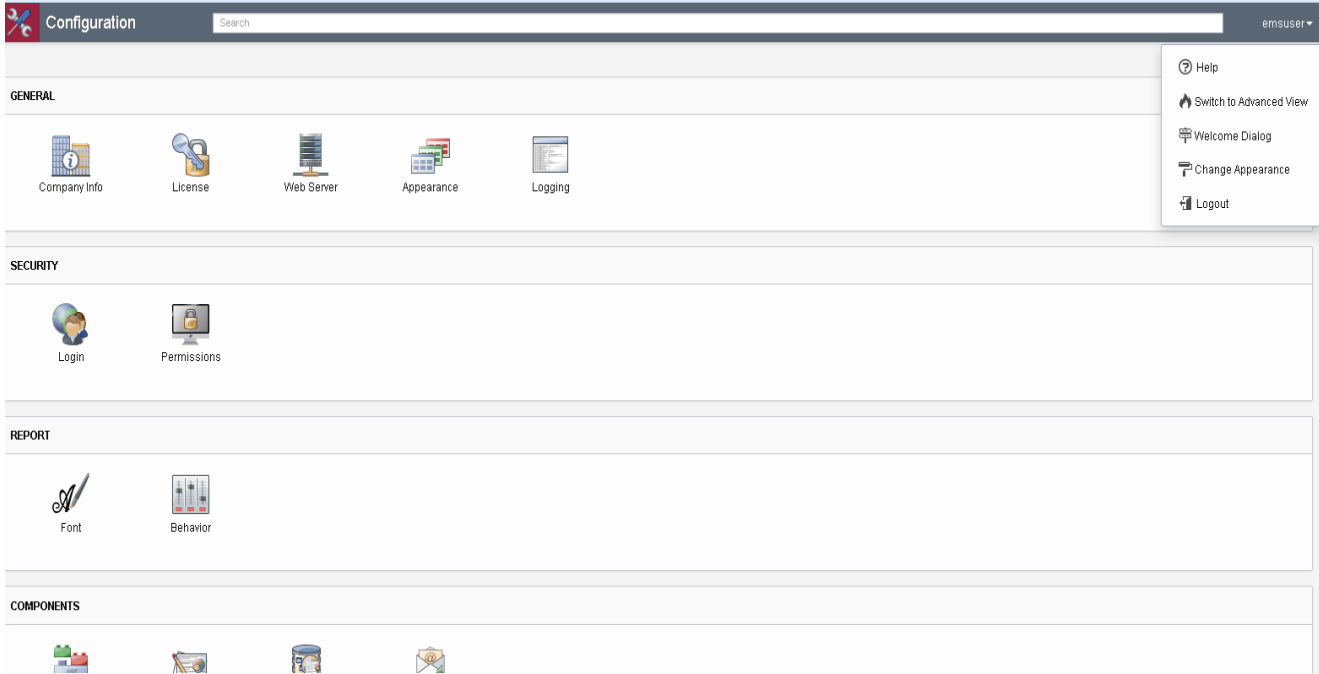


Figure 26: Switch to Advanced View

6. After switching to Advance View in the previous step, the following window will appear.

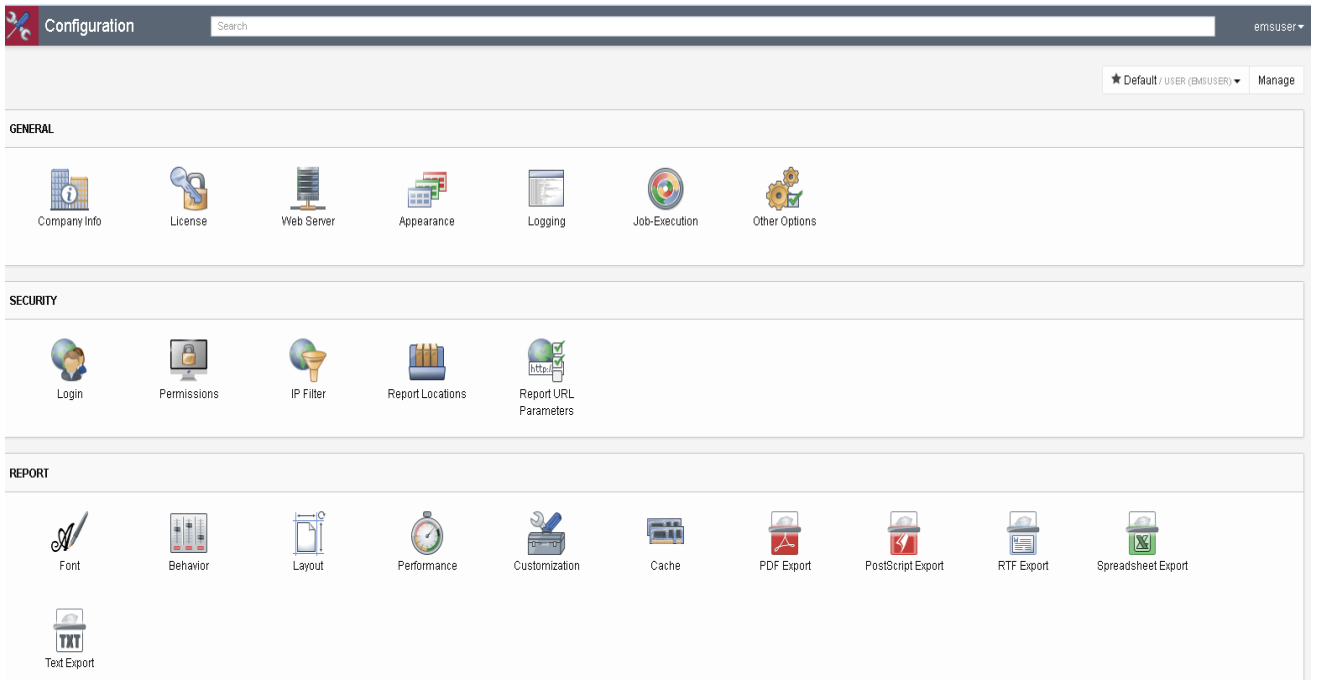


Figure 27: Advance View of Configuration

7. On the Configuration Screen Click on ‘Manage’ button on the top right corner.



Figure 28: Manage Button

The following screen would come up:

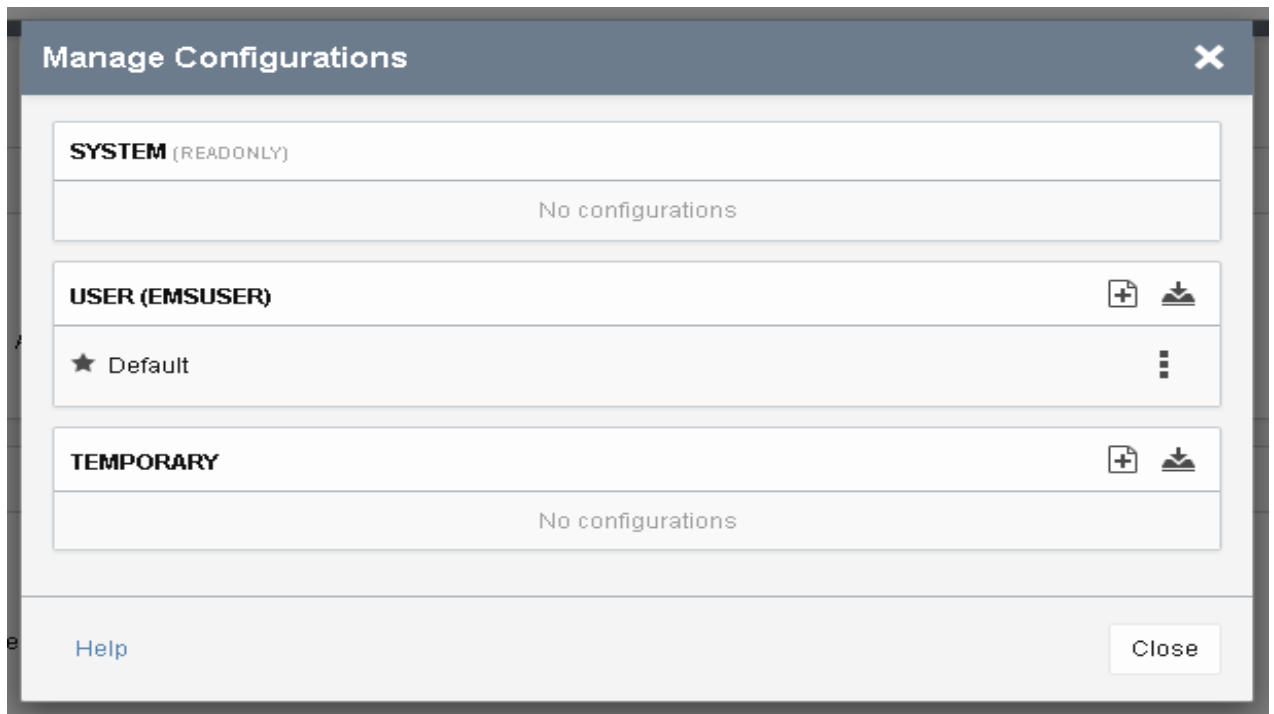


Figure 29: Manage Configurations window

The “Default” Configuration will already be added and activated by default, under USER (<NON ROOT USER>), as seen in the above screenshot.

8. Close the “Manage Configurations” window.

9. Creation of 'root' user and assigning permissions – In correspondence to the default admin 'root' in OCEEMS, a user named 'root' needs to be created in i-net Clear Reports so that OCEEMS 'root' user can login to i-net Clear Reports from OCEEMS. For this, perform following steps:

a) In the SECURITY section, click on the “Permissions” option. It shall open the ‘Permissions’ screen.

Note: If Restrict permission check box is unchecked, select it (Check it) so that “Add Permission” drop down will be enabled.

On the “Add permission” drop down, select ‘for a user’.

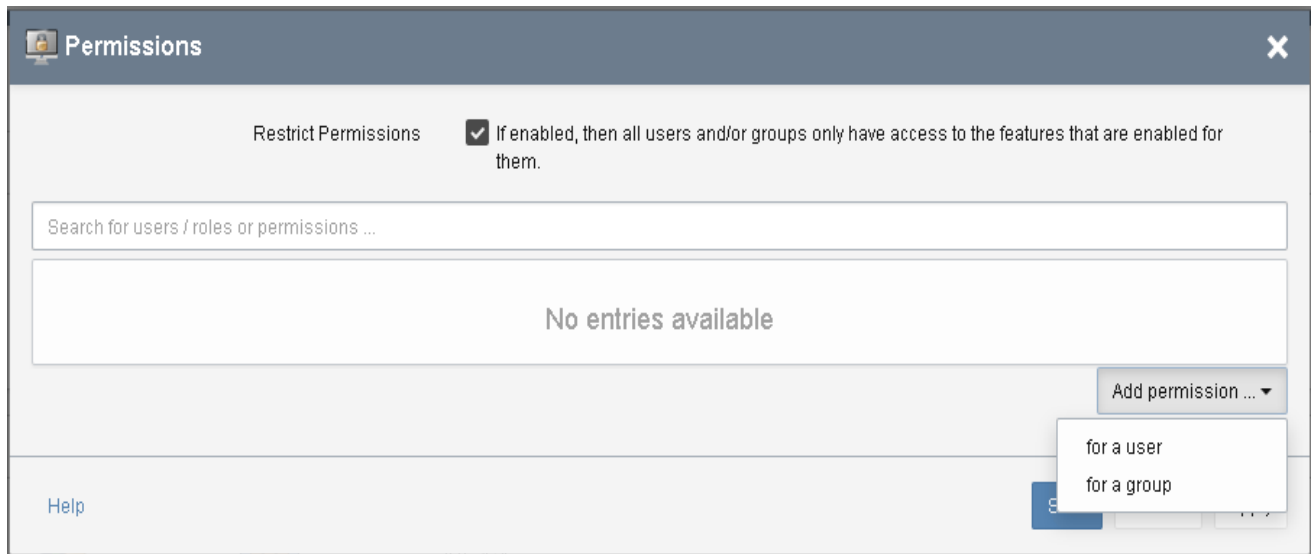


Figure 30: Add Permissions for a user

On the “Add permission for a user” screen, provide name ‘root’.
Click “Select all permissions” button and then click OK.

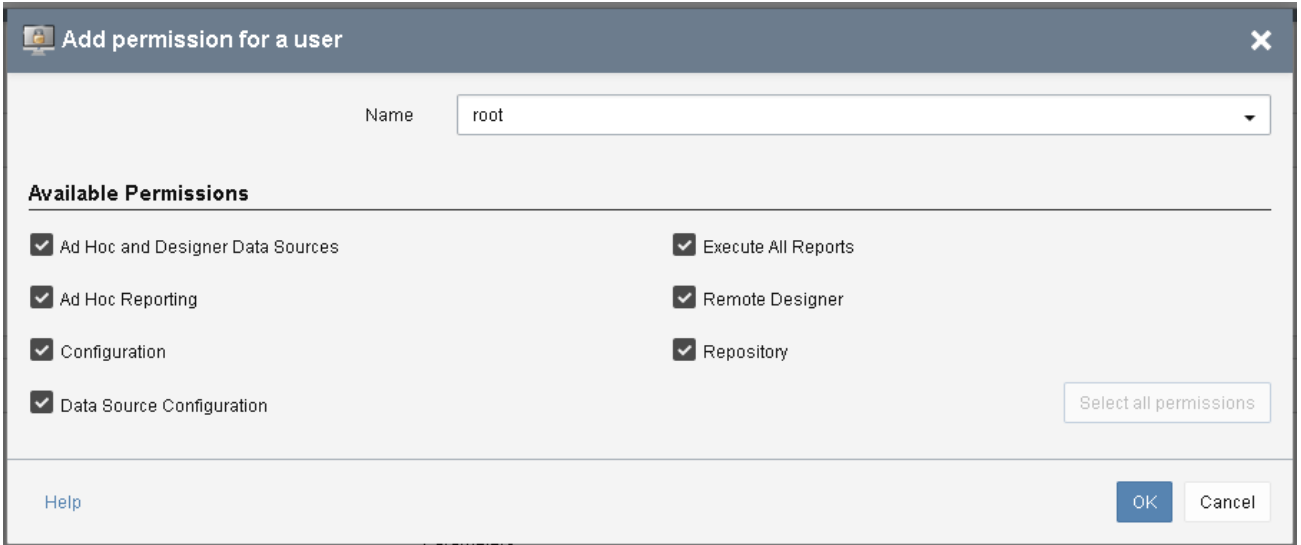


Figure 31: Add Permissions for a user: adding 'root' user

b) After 'root' user is created, **uncheck the “Restrict Permissions” checkbox**, then click Apply and Save buttons.

Note: Do not forget to uncheck the ‘Restrict Permission’ in this step.

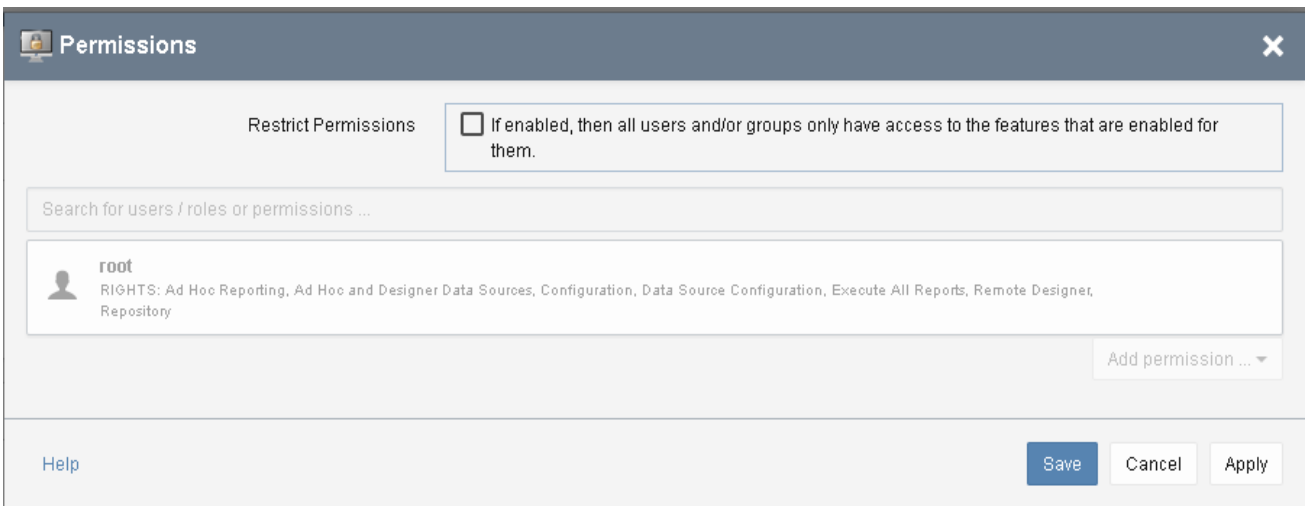


Figure 32: System Permissions Screen - Add 'root' user

10. Enabling Task Planner Module- On the “Configuration” screen, in the “COMPONENTS” section, click on the ‘Plugins’ option.
1. On ‘Plugins’ screen, click on the ‘Task Planner’ tab and click on the checkbox for “Task Planner 3.1” and “Render Reports” 17.1” plugin as shown in screenshot below:

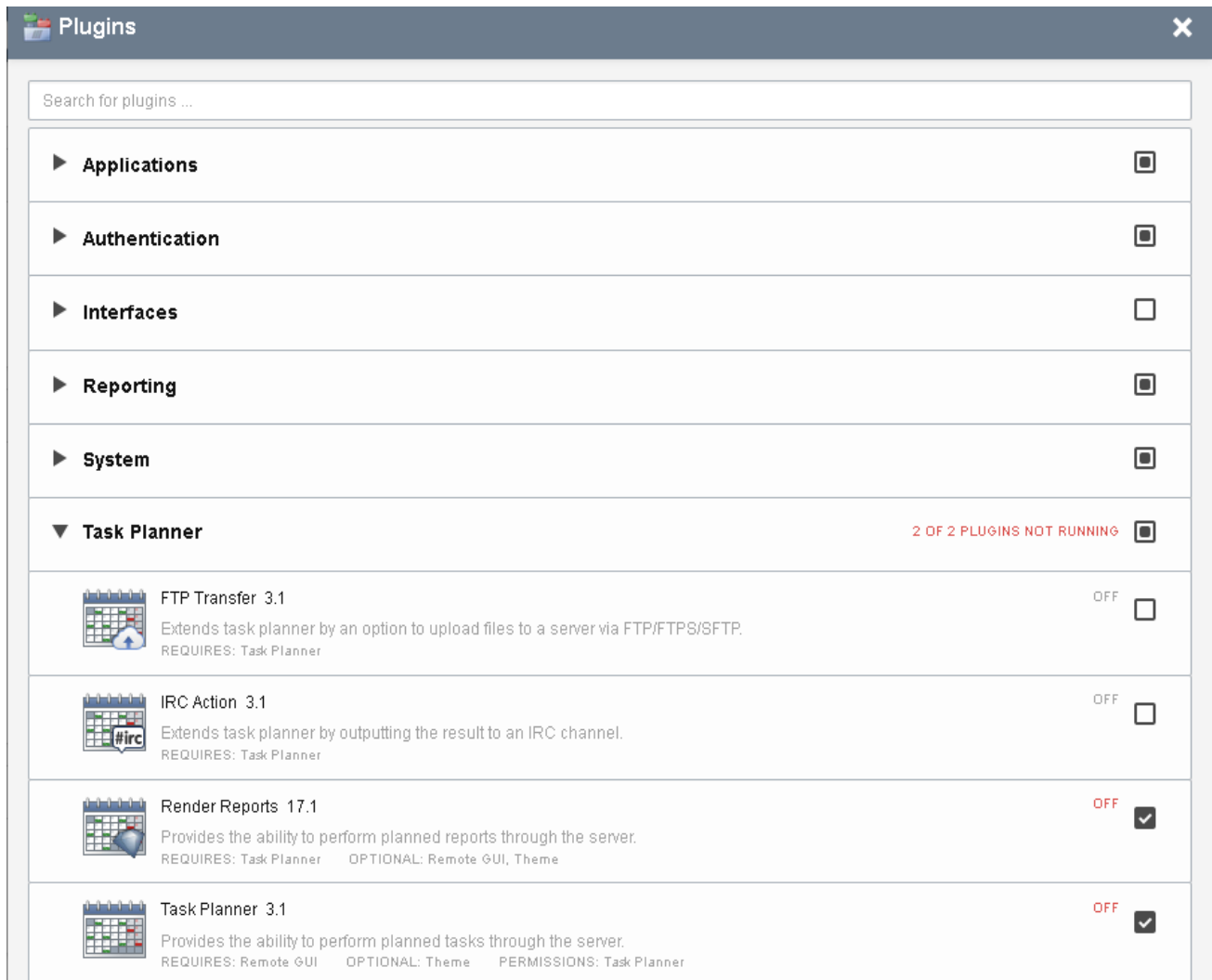


Figure 33: Enabling the Task Planner Module

- b) Click on the 'Authentication' tab and click on the checkbox for "Script Authentication 3.1" plugin as shown in screenshot below:

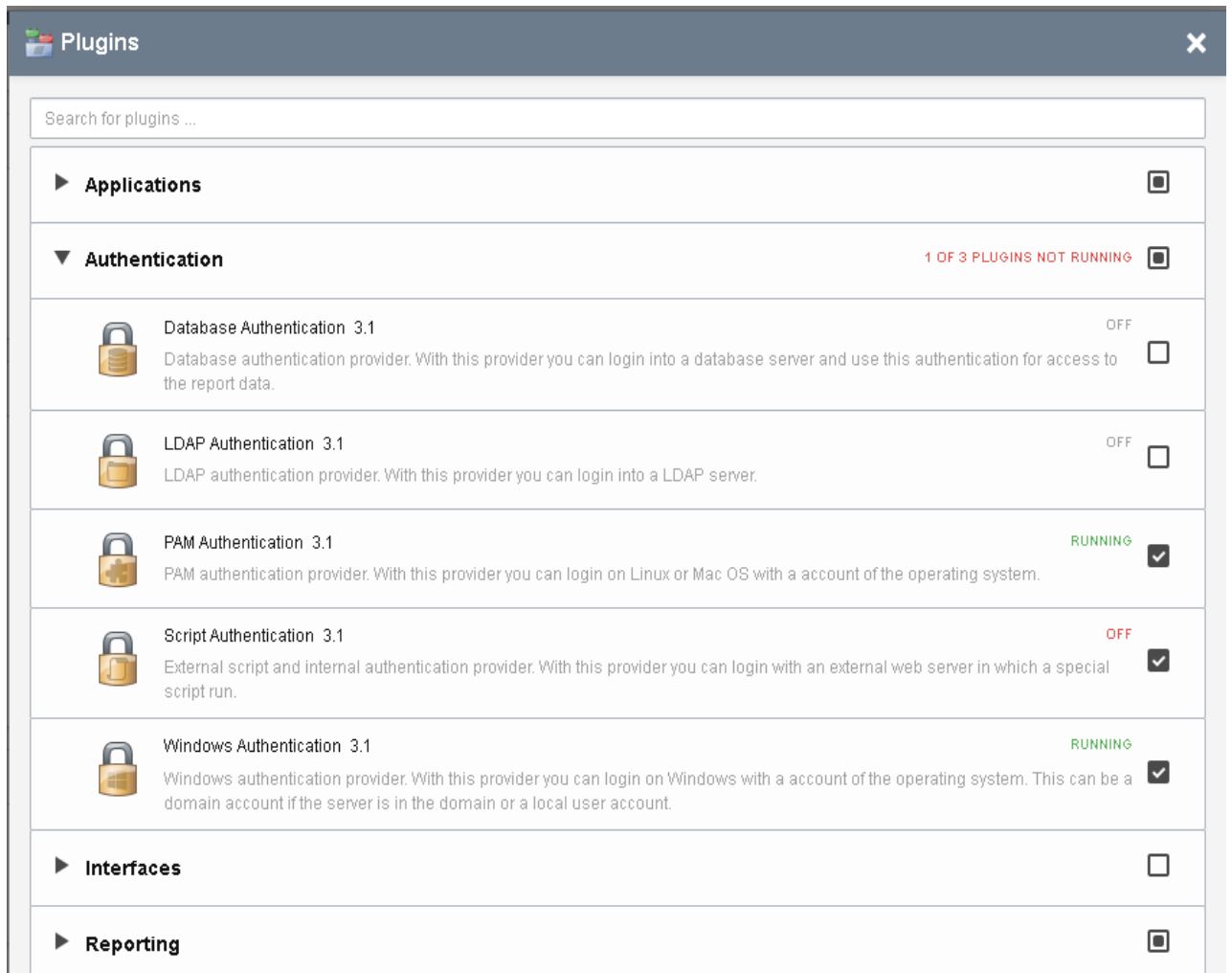


Figure 34: Enabling Script Authentication

- c) Next, click on 'Save' button. It will give a popup to restart the server. Click on 'Restart Now' button. Server shall restart and web page shall prompt for the username and password again. Enter password to complete the rest of the configuration.

Note: If you do not see the popup 'Restart Now' at this step, some configuration changes has not been done as is mentioned in the previous steps. Please cross check the steps that are already executed.

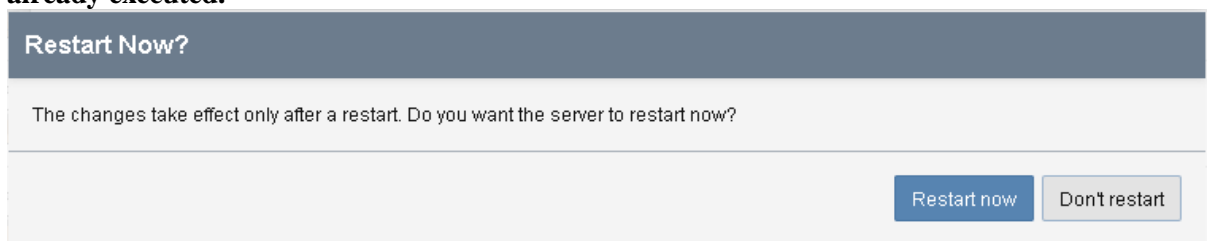


Figure 35: Restart i-net Server

11. Creating a remote Report Repository and activating it:

1. In the ‘COMPONENTS’ section, click on the “Repository” option. It shall open the “Repository List” screen. Click on “Add Repository” button, then select the option “from file system”.

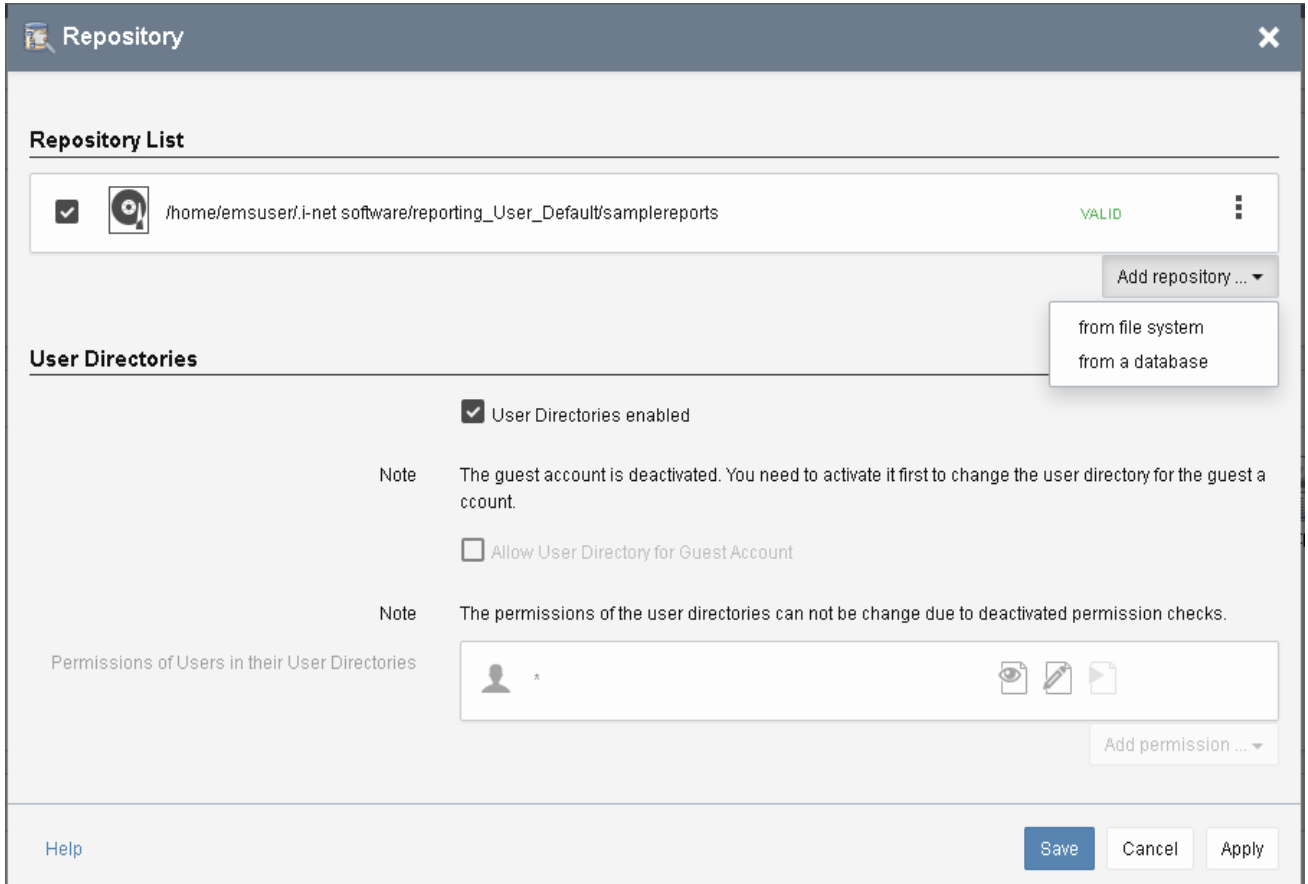


Figure 36: Add Repository option

On the newly opened screen, click on the folder icon as seen below and then browse to the path “/Tekelec/WebNMS/reportingStudio” and click OK button.

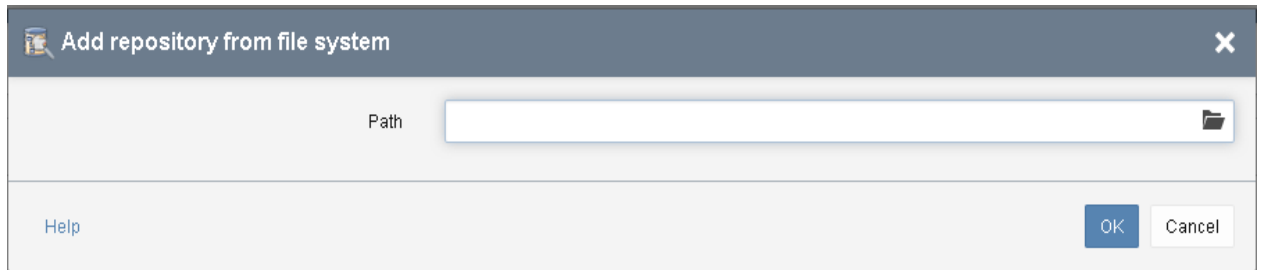


Figure 37: Folder icon as seen on extreme right for browsing the path

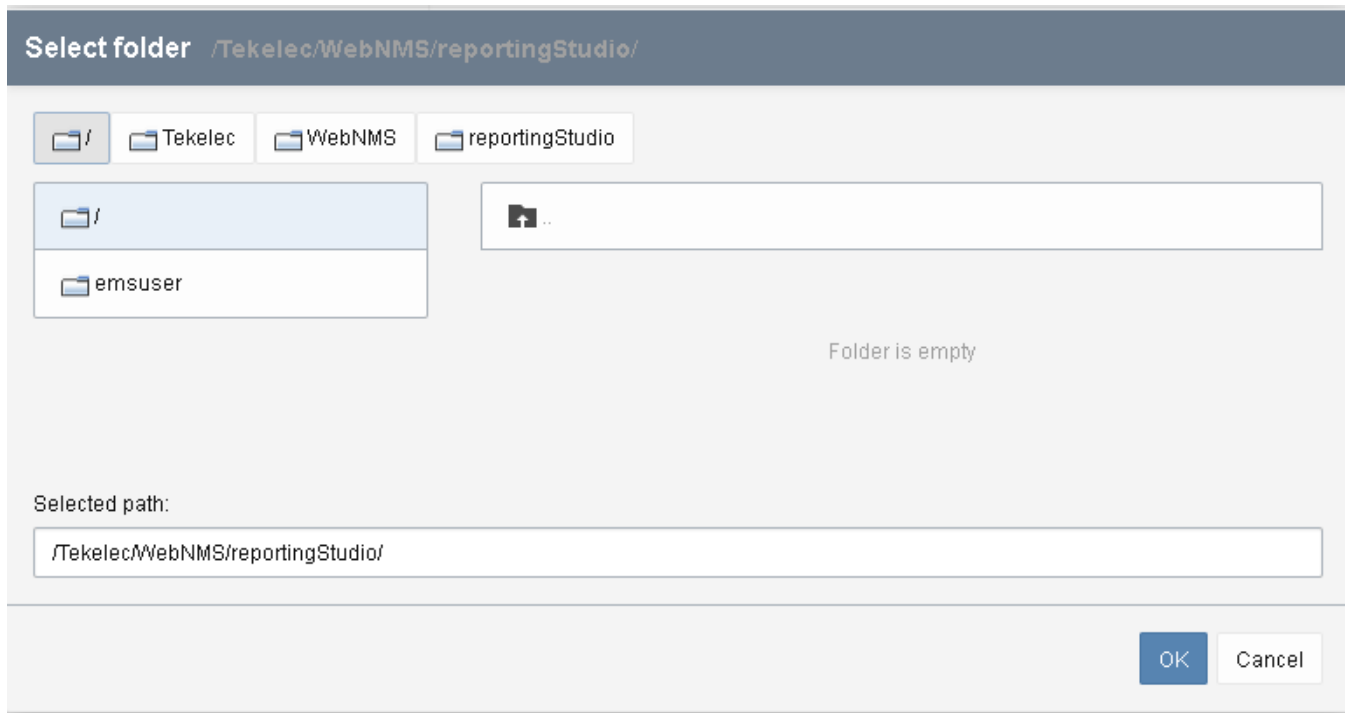
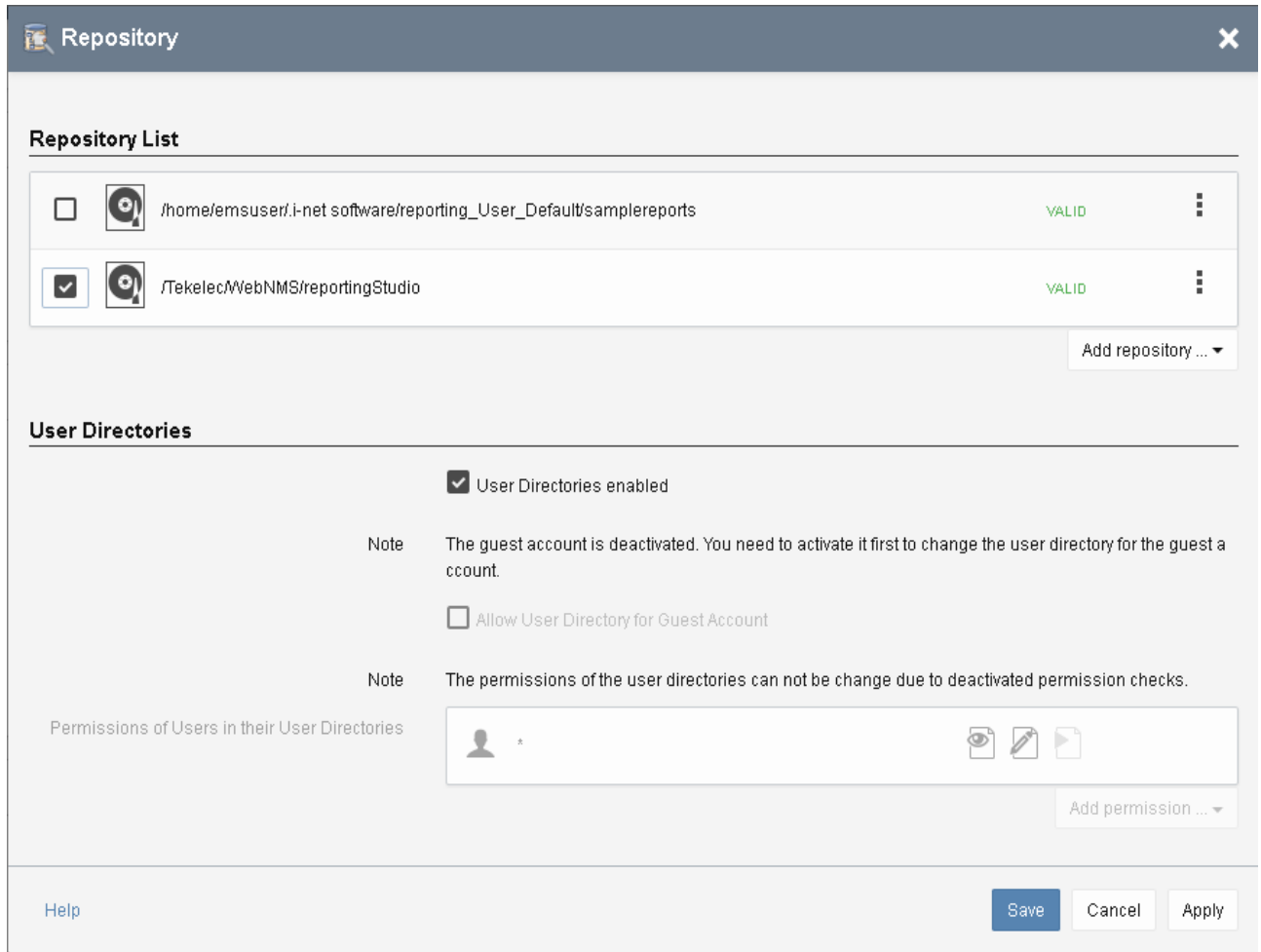


Figure 38: Browse to the path “/Tekelec/WebNMS/reportingStudio/”

2. After the “/Tekelec/WebNMS/reportingStudio” directory is added in the list, check the checkbox associated with the path “/Tekelec/WebNMS/reportingStudio” and then click ‘Apply’ and ‘Save’ buttons, as seen below.



12. Adding E5ms filter for single sign on from OCEEMS:

In the 'REPORT' section, click on the 'Customization' option. It shall open the 'Customization' screen. Click on 'Add a Servlet Filter' button, add an entry "com.tekelec.e5ms.filter.E5msFilter" in the corresponding text box and click on the Tick () icon. This will add the "com.tekelec.e5ms.filter.E5msFilter" entry. Then, click on Apply and Save buttons to save the changes.



Figure 39: Adding the “com.tekelec.e5ms.filter.E5msFilter” filter

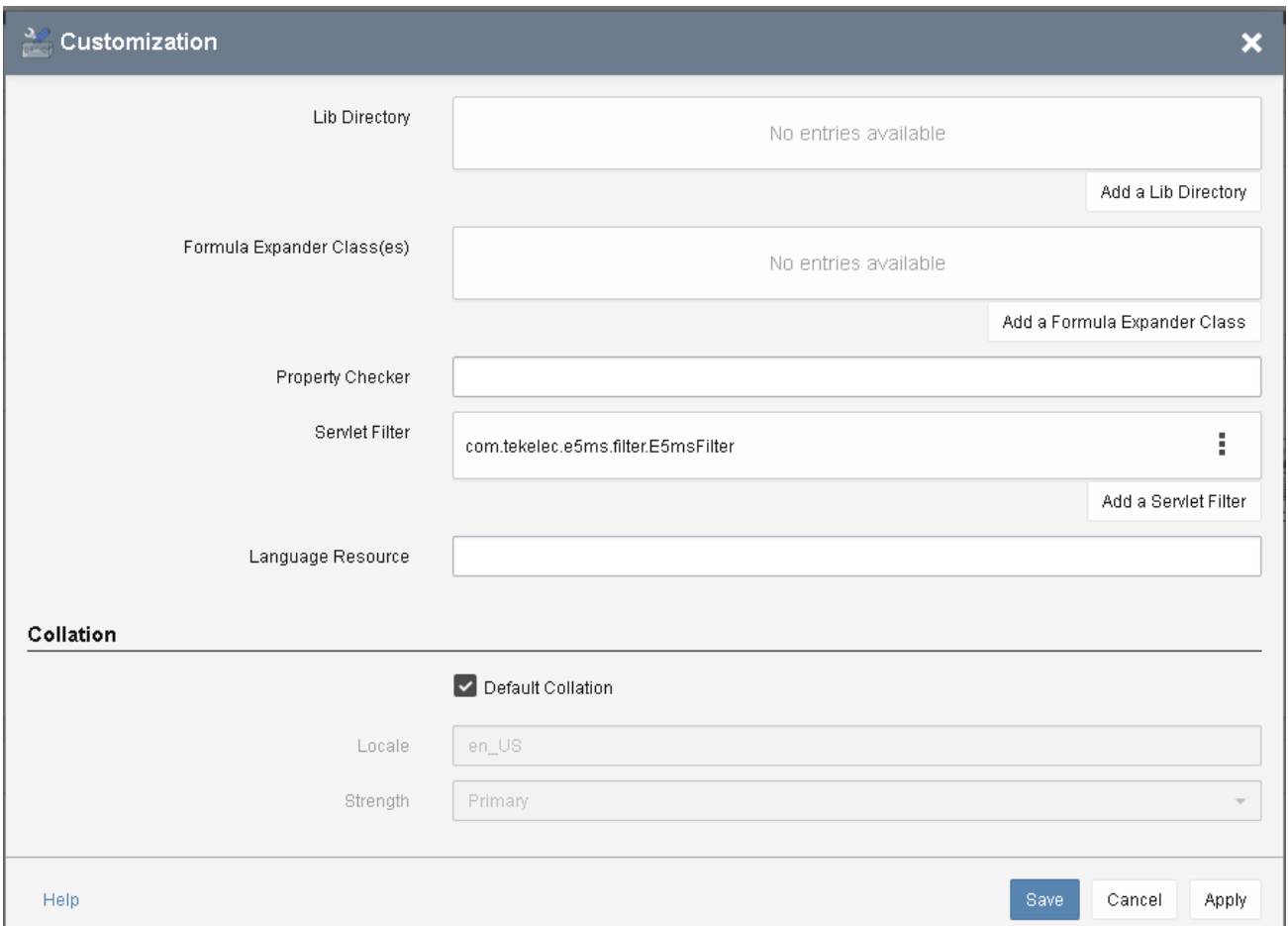


Figure 40: Added the “com.tekelec.e5ms.filter.E5msFilter” filter

13. Login with the non-root user and go to “/Tekelec/WebNMS/bin”. Run the command “sh inetService.sh restart” with the non-root user, to restart the i-net Service, as shown below:

```
# cd /Tekelec/WebNMS/bin
# sh inetService.sh restart
```

```
[emsuser@e5ms69 ~]$ cd /Tekelec/WebNMS/bin
[emsuser@e5ms69 bin]$ sh inetService.sh restart
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.s
ervice changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[emsuser@e5ms69 bin]$ █
```

Figure 41:Restarting the i-net Service

14. Refresh/Reload the i-net Clear Reports in the browser window, by clicking on the “Refresh/Reload” icon, as shown below.

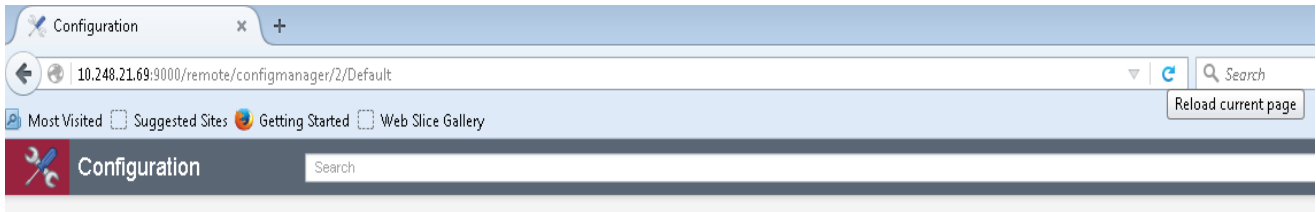


Figure 42: Reload/Refresh i-net Clear Reports in the browser window

15. Setting Login type:

In the “SECURITY” section, click on the “Login” option. It shall open the “Login” screen. In the “Login Type” drop down, select value “Internal Webserver”. Then, click on Apply and Save button.

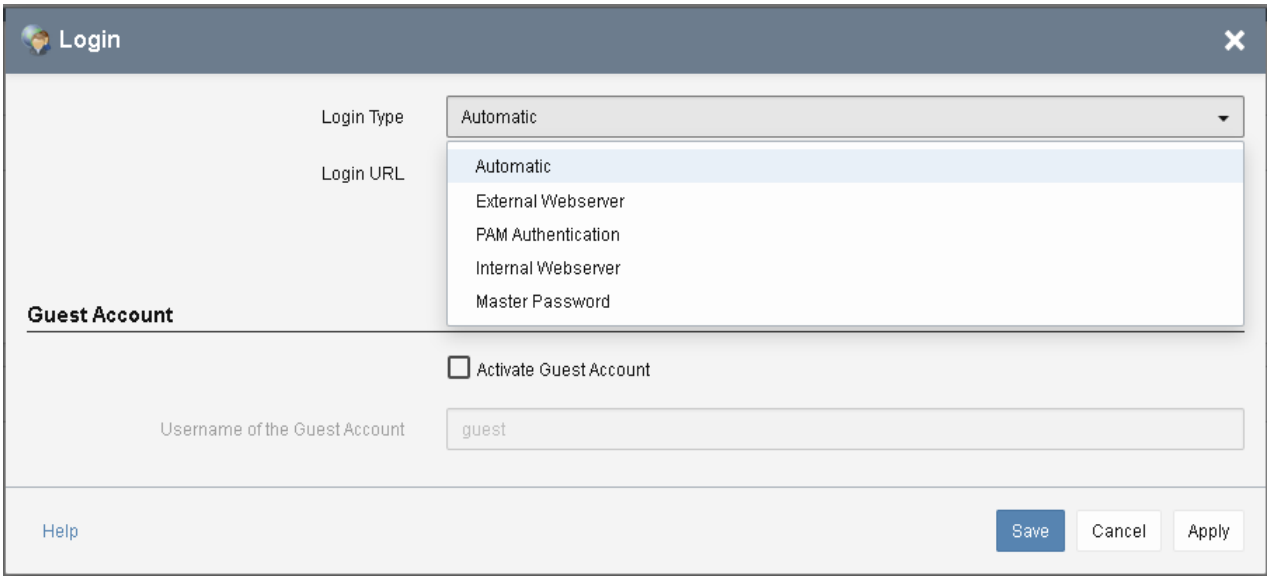


Figure 43: Selecting the “Internal Webserver” option

As soon as the “Apply” button is clicked after changing the Login Type to “Internal Webserver”, the following window appears:

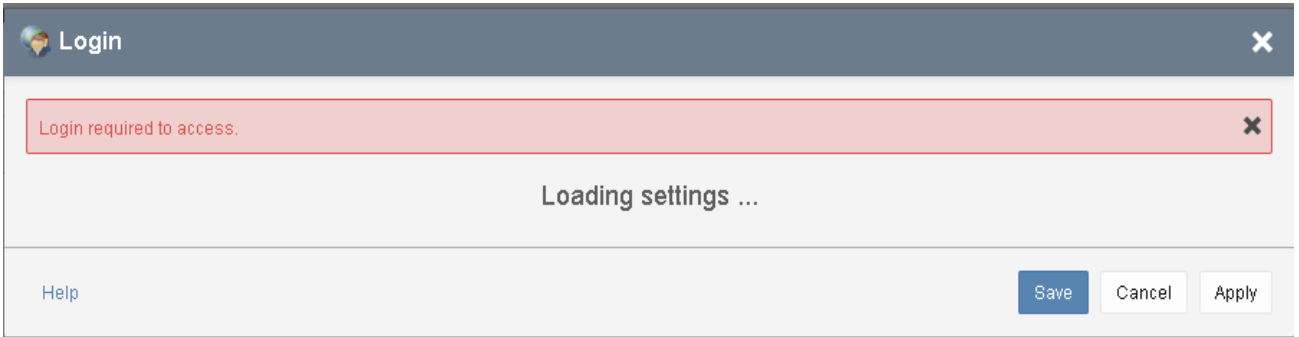


Figure 44: Login required to access popup

16. Close the current browser window where the error message was observed. Login to OCEEMS client using root user and launch “Reporting Studio” using the “Reporting Studio” link available in top menu bar.

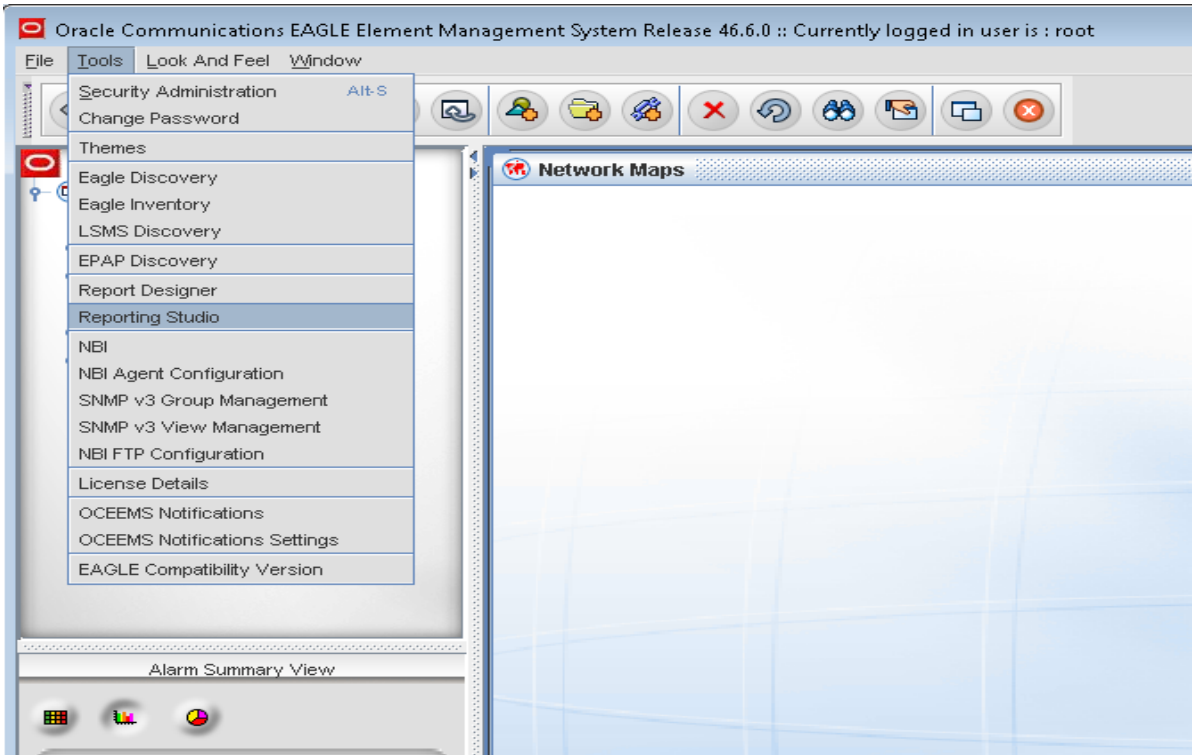


Figure 45: Reporting Studio” link available in top menu bar

17. After opening the i-net Clear Reports through OCEEMS client, click on the “Data Sources” option, as seen below:

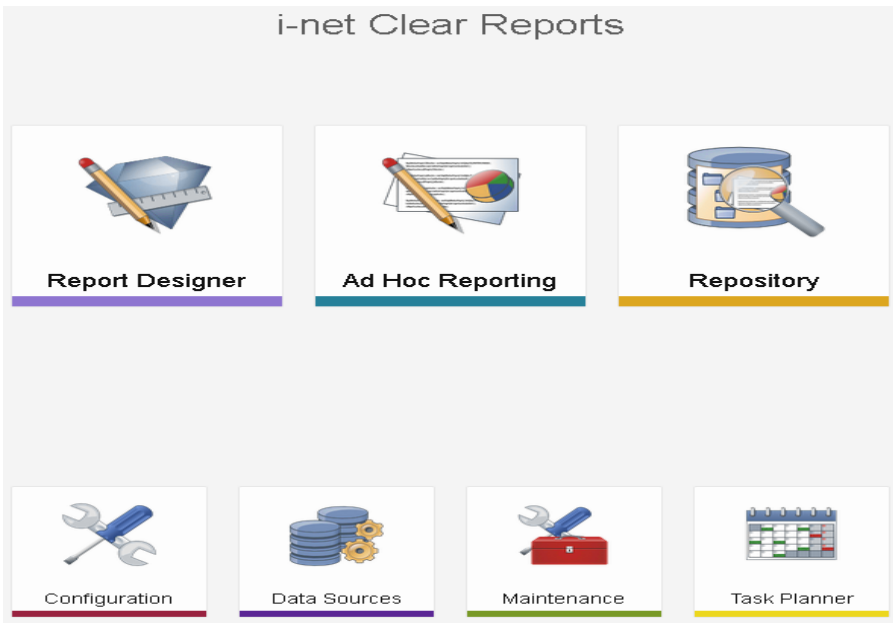


Figure 46: “Data Sources” option

18. Select the “User (<non-root user>)” tab, click on the “Add” button and enter the name of the new data source as “e5msdb”. Click “Ok” after that.

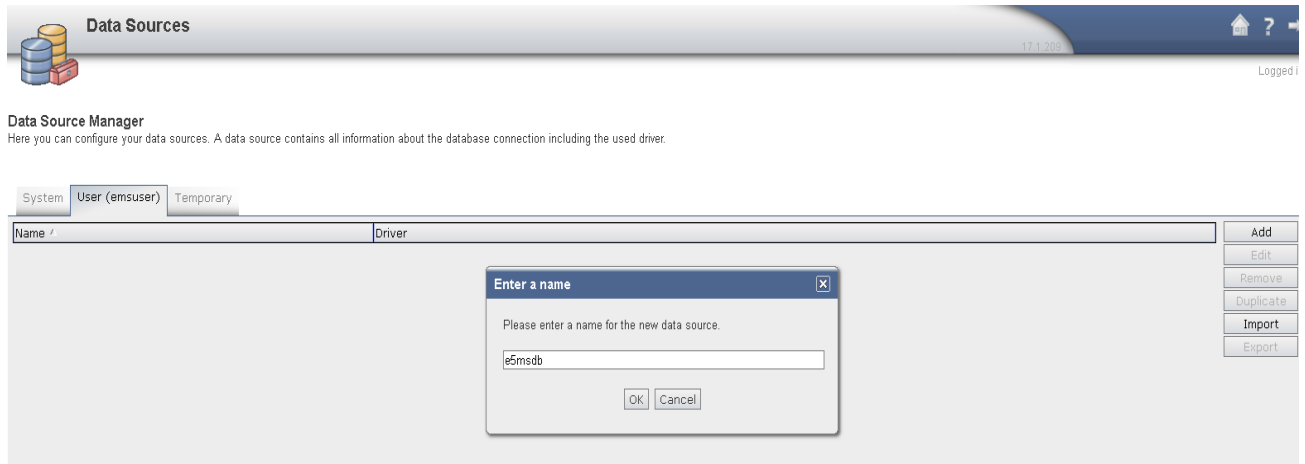


Figure 47: Adding new data source

On the next page, select the MySQL driver as shown below and click OK.

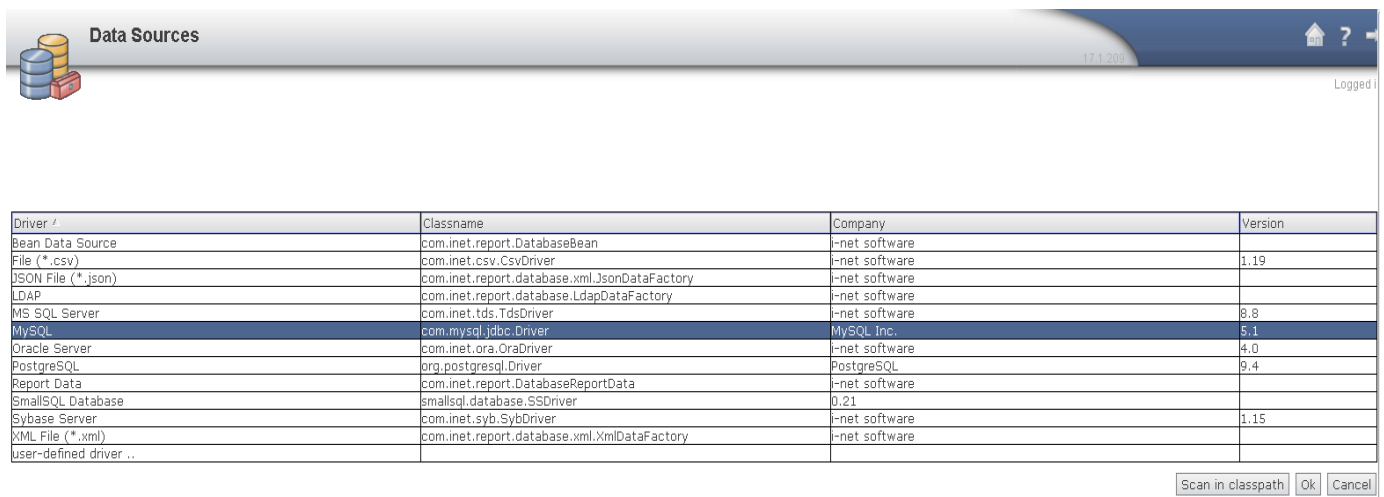


Figure 48: Selecting the MySQL driver

On the next page, provide values for User, Password, Host and Database fields as shown below. If OCEEMS server is running, then on clicking the Check Connection button, it shall show a connection successful message as shown below:

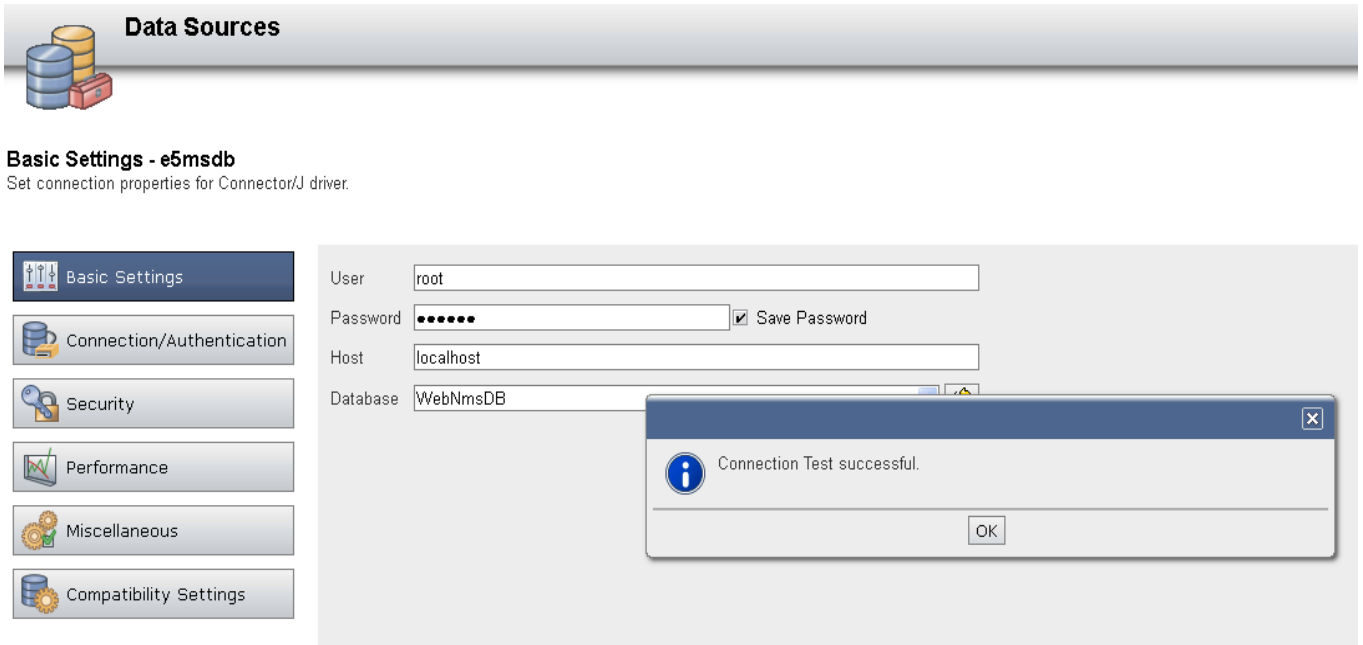


Figure 49: Connection Test Successful

Click “OK” to close the “Connection Test Successful” message.

19. Click “Ok” at the bottom right corner to add the “e5msdb” data source.

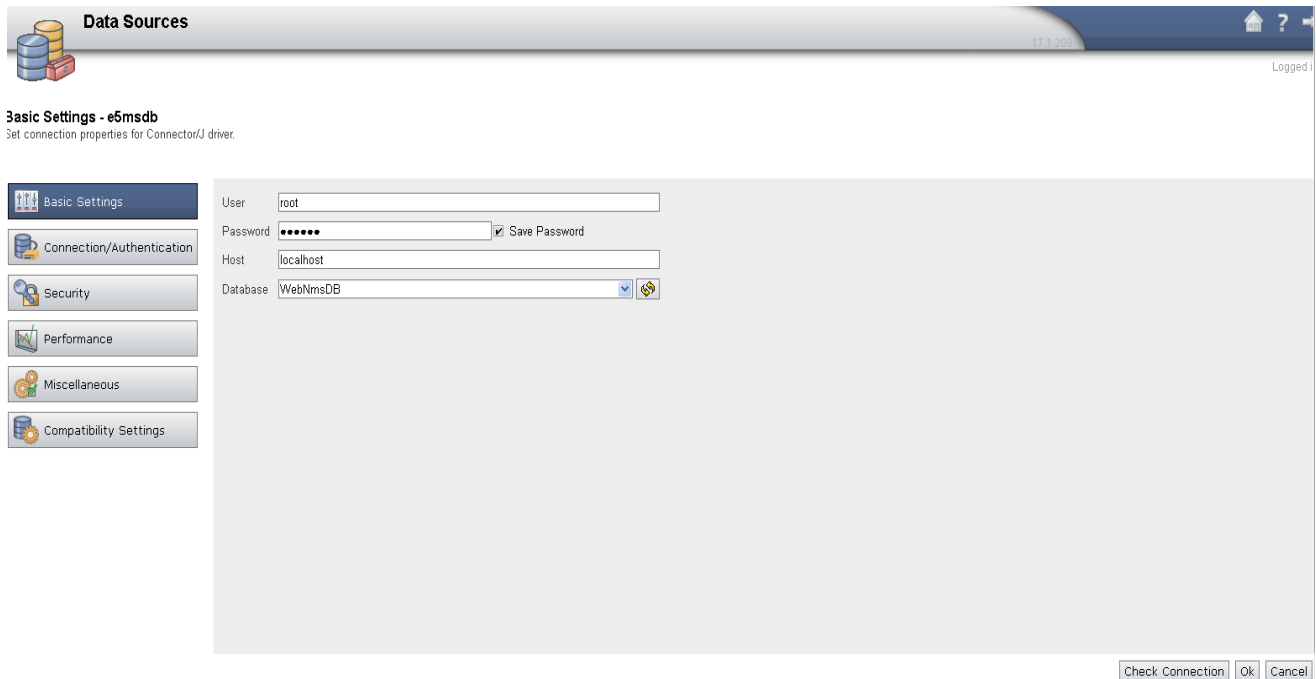


Figure 50: Ok to add e5msdb data source

20. The “e5msdb” data source will be visible after addition under “User (<non-root user>)” tab, as seen below:

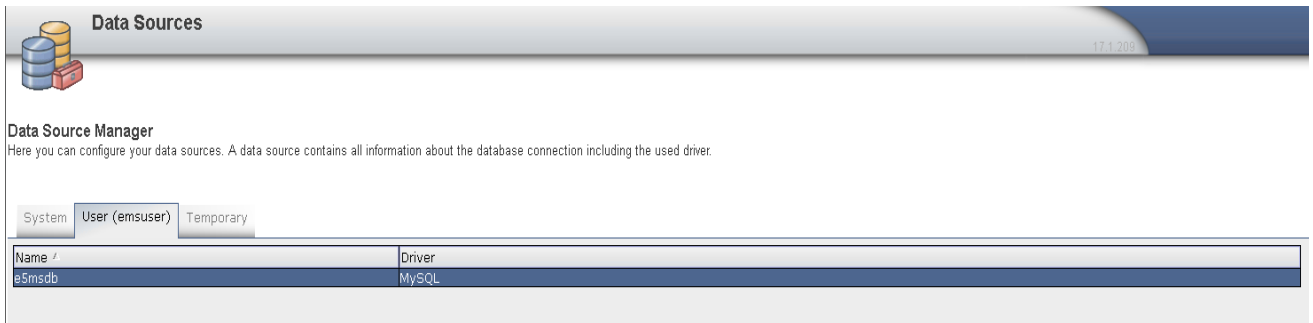


Figure 51: “e5msdb” data source successfully added

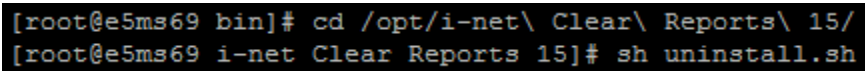
2.4 Upgradation of Reporting Studio

The i-net Clear Reports will be updated from version 15.x to version 17.x.

2.4.1 When i-net Clear Reports 15.x is running with non-root user

1. Login with the super user 'root'. **These steps should be performed by super user 'root'.**
2. The i-net Clear Reports 15.x is installed with the non-root user, so first uninstall i-net 15.x. For that, go to the i-net 15.x installation directory and run the script "uninstall.sh", as shown below:

```
# cd /opt/i-net\ Clear\ Reports\ 15/  
# sh uninstall.sh
```

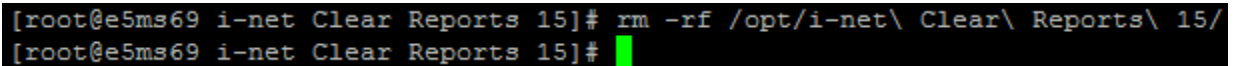


```
[root@e5ms69 bin]# cd /opt/i-net\ Clear\ Reports\ 15/  
[root@e5ms69 i-net Clear Reports 15]# sh uninstall.sh
```

Figure 52: Uninstalling i-net Clear Reports 15.x

3. Remove the i-net 15.x installation directory by running the following command:

```
# rm -rf /opt/i-net\ Clear\ Reports\ 15/
```



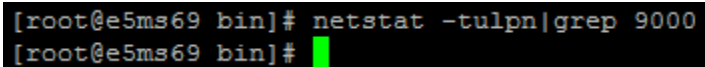
```
[root@e5ms69 i-net Clear Reports 15]# rm -rf /opt/i-net\ Clear\ Reports\ 15/  
[root@e5ms69 i-net Clear Reports 15]#
```

Figure 53: Removing i-net 15.x installation directory

4. Now, install the i-net Clear Reports 17.x.
5. In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000. Run the below command:

```
# netstat -tulpn|grep 9000
```

- a) If output of the above command is blank, as shown below, then skip the Step 6:



```
[root@e5ms69 bin]# netstat -tulpn|grep 9000  
[root@e5ms69 bin]#
```

Figure 54: Blank Output of netstat command

- b) If output of the above command is like, as shown below, then move to the Step 6:

```
tcp6    0    0 :::9000          :::*              LISTEN      17869/java
```

In the above output, the number “17869” is the PID of the process.

```
[root@e5ms69 inet17.1.146rpm]# netstat -tulpn|grep 9000
tcp6      0      0  :::9000          :::*              LISTEN      17869/java
[root@e5ms69 inet17.1.146rpm]#
```

Figure 55: Non-Blank Output of netstat command

6. Run the below command, to kill the process in the Step 5.b.
kill -9 <PID of the process at step 1.b>
e.g. kill -9 17869

```
[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#
```

Figure 56: Killing of the process

7. Unzip the Reporting Studio zip file to the “reporting-studio” directory, using the command given below:
unzip <reporting studio zip> -d reporting-studio

```
[root@e5ms69 RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive:  reporting-46.6.0.0.0-466.6.0.zip
  inflating: reporting-studio/clear-reports-server-17.1.209.rpm
 extracting: reporting-studio/authentication.script.zip
  inflating: reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
  inflating: reporting-studio/NmsServerClasses.jar
  inflating: reporting-studio/mysql-connector-java.jar
[root@e5ms69 RPMs]#
```

Figure 57: Unzipping the Reporting Studio Zip

8. Move to the new “reporting-studio” directory created in above step and verify the contents of reporting studio zip file by running the following command:
cd reporting-studio
ll

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# ll
total 110884
-rw-r--r-- 1 root root    31882 Dec 18 11:32 authentication.script.zip
-rw-r--r-- 1 root root 103855909 Dec 18 11:43 clear-reports-server-17.1.209.rpm
-rw-r--r-- 1 root root    7933 Mar 29 2016 E5msFilter-46.6.0.0.0-466.6.0.jar
-rw-r--r-- 1 root root   960374 Jan 20 2015 mysql-connector-java.jar
-rw-r--r-- 1 root root   8682589 Jan 21 2015 NmsServerClasses.jar
[root@e5ms69 reporting-studio]#
```

Figure 58: Verifying the contents of reporting-studio directory

9. Now, when you are inside the same “reporting-studio” directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

```
# rpm -ivh <Reporting Studio RPM>
```

```
[root@e5ms69 reporting-studio]# rpm -ivh clear-reports-server-17.1.209.rpm
Preparing...                               ##### [100%]
Updating / installing...
 1:clear-reports-server-17.1.209-1         ##### [100%]
Removed old APACHE-Configuration of previous product installation
Starting clear-reports (via systemctl):    [ OK ]
.....
#####
#
#
#      Continue setup using the following URL in a browser:
#      http://localhost:9000/setup/1bf2dec6-f4e9-4ce3-ba8a-fd4b595ee326
#
#
#####

[root@e5ms69 reporting-studio]#
```

Figure 59: Installing the i-net Clear Reports RPM

10. Inside the “reporting-studio” directory, run the following command to copy the “E5msFilter-<version>.jar” and the “NmsServerClasses.jar” to the “<i-net Installation Directory>/lib” folder.

```
# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
```

```
[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
[root@e5ms69 reporting-studio]#
```

Figure 60: Copying the E5msFilter jar and NmsServerClasses jar

11. Inside the “reporting-studio” directory, run the following command to copy the “mysql-connector-java.jar” to the “<i-net Installation Directory>/lib/driver” folder.
Enter ‘y’ when asked to overwrite.

```
# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
```

```
[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite '/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#
```

Figure 61: Copying the mysql-connector jar

12. Inside the “reporting-studio” directory, run the following command to copy the “authentication.script.zip” plugin to the “<i-net Installation Directory>/plugins” folder.
Enter ‘y’ when asked to overwrite.

```
# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/
```

```
[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/  
cp: overwrite '/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y  
[root@e5ms69 reporting-studio]#
```

Figure 62: Copying the authentication.script.zip plugin

13. Go to “/Tekelec/WebNMS/bin” directory and run the script “updateInetUser.sh” to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

```
# cd /Tekelec/WebNMS/bin  
# sh updateInetUser.sh
```

```
[root@e5ms69 reporting-studio]# cd /Tekelec/WebNMS/bin  
[root@e5ms69 bin]# sh updateInetUser.sh  
  
This scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS.  
The i-net User is changed to emsuser. emsuser can now operate the i-net 17.  
  
[root@e5ms69 bin]#
```

Figure 63: Changing the i-net User

14. Create a new session and login with the non-root user (i.e. the i-net non-root user which is same as that of OCEEMS user).
15. Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the non-root user, to restart the i-net service.

```
# cd /Tekelec/WebNMS/bin  
# sh inetService.sh restart
```

```

[emsuser@e5ms69 ~]$ cd /Tekelec/WebNMS/bin
[emsuser@e5ms69 bin]$ sh inetService.sh restart
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[emsuser@e5ms69 bin]$ █

```

Figure 64: Restarting the i-net Service

16. After that, run the below command:

```
rm -rf /home/<non-root user>/i-net\ software/reporting_User_Default/Users/*
```

```

[root@e5ms69 bin]# rm -rf /home/emsuser/i-net\ software/reporting_User_Default/Users/*
[root@e5ms69 bin]# █

```

Figure 65: Removing Tasks

17. Login with non-root user, go to “/Tekelec/WebNMS/bin” and run the script “inetService” with the non-root user, to restart the i-net Service.

```
# cd /Tekelec/WebNMS/bin
# sh inetService.sh restart
```

```

[emsuser@e5ms69 bin]$ cd /Tekelec/WebNMS/bin
[emsuser@e5ms69 bin]$ sh inetService.sh restart
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]

```

Figure 66: Restarting i-net Service

18. Open URL **http://<IPAddress_of_Server>:9000** for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:

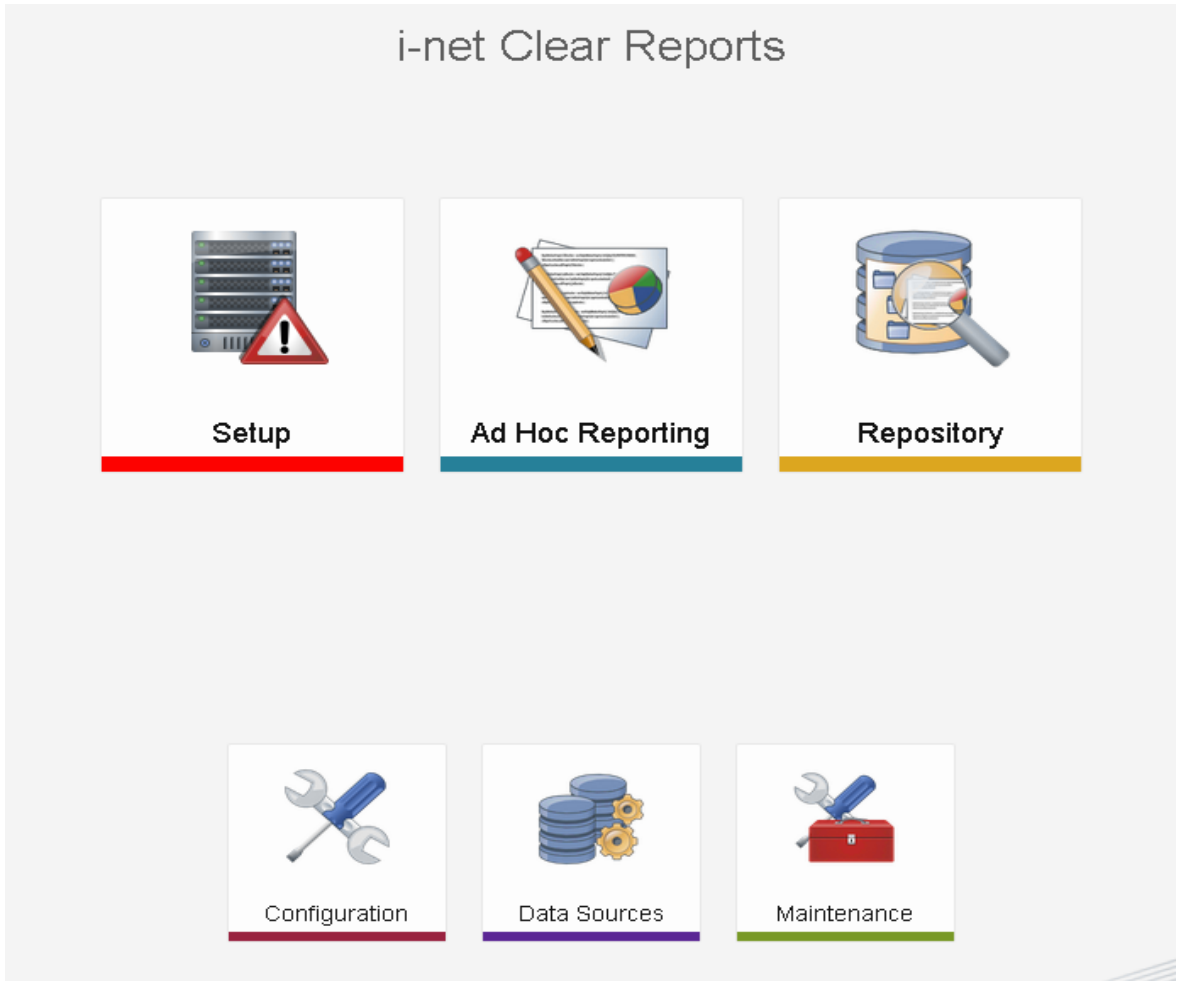


Figure 67: i-net Clear Reports home page

19. Click on “Setup” option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:



Figure 68: i-net Clear Reports Setup window

20. Login with the non-root user and go to “i-net installation directory”. Run the following commands to open the “webconfig.txt” file.

```
# cd /usr/share/i-net-clear-reports/
```

```
# vi webconfig.txt
```

```
[emsuser@e5ms69 bin]$ cd /usr/share/i-net-clear-reports/  
[emsuser@e5ms69 i-net-clear-reports]$ vi webconfig.txt  
[emsuser@e5ms69 i-net-clear-reports]$
```

Figure 69: Opening the webconfig.txt file

21. After opening the “webconfig.txt” file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:

```
PROTOCOL http  
ADDRESS localhost  
PORT 9000  
UUID 59071d47-3153-41ee-95a1-2747f95c6343
```

Figure 70: Copying the UUID

22. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



i-net Clear Reports Setup

Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:

`/usr/share/i-net-clear-reports/webconfig.txt`

Figure 71: Pasting the UUID in the UUID text box

Click on the “Start” button as shown in the above screenshot, after pasting the UUID.

23. On clicking on the “Start” button in the previous step, it will continue with the Setup and ask for the “Product License” and “Webserver Settings” as shown below:

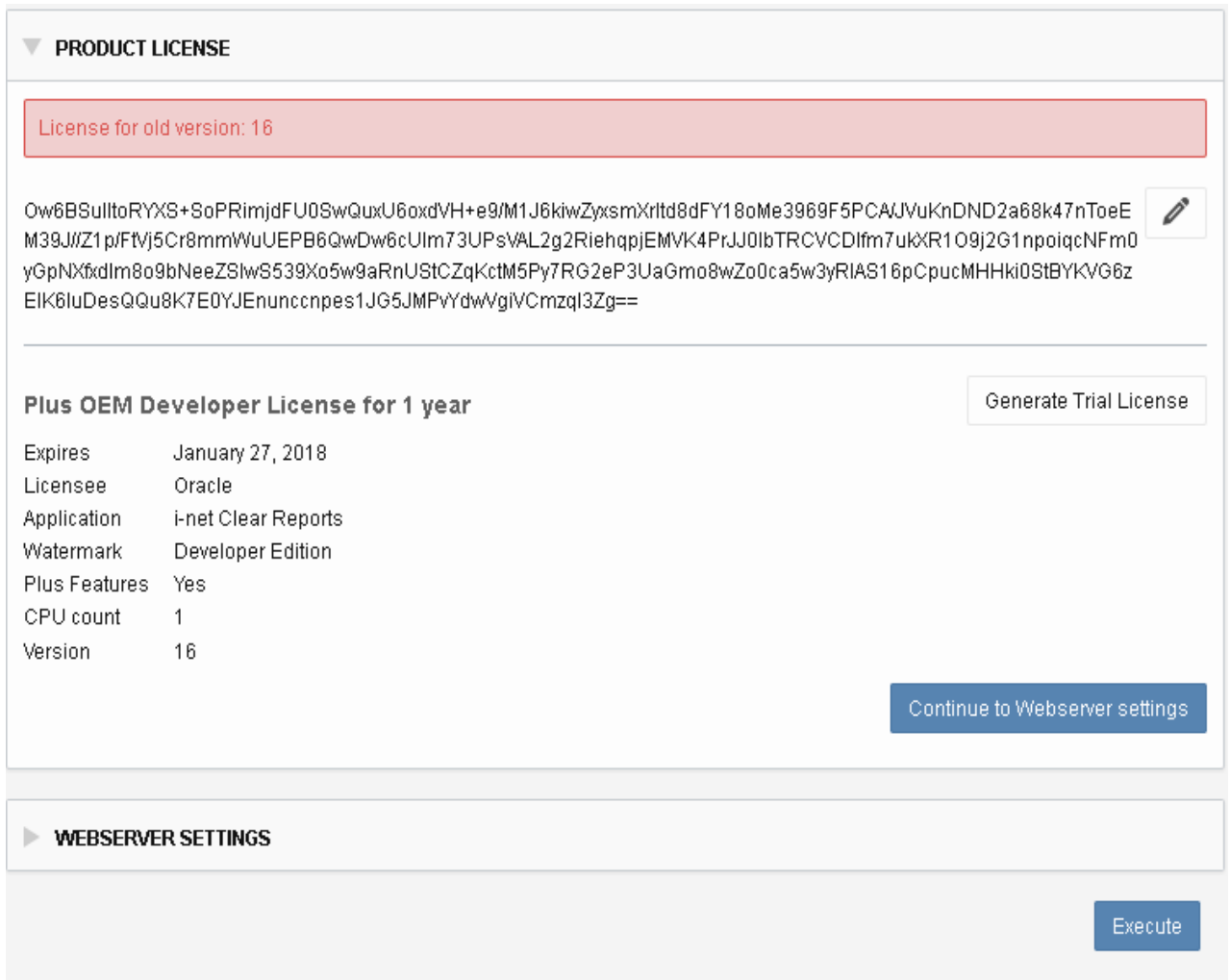


Figure 72: Product License Screen

The old i-net 15.x license will be visible by default.

24. Enter the i-net Clear Reports 17.x Product License, by clicking on the “Edit” icon as shown below:

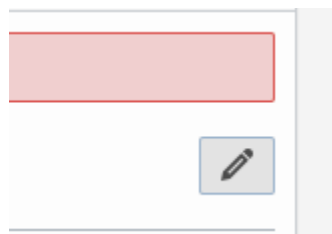


Figure 73: Edit License Icon

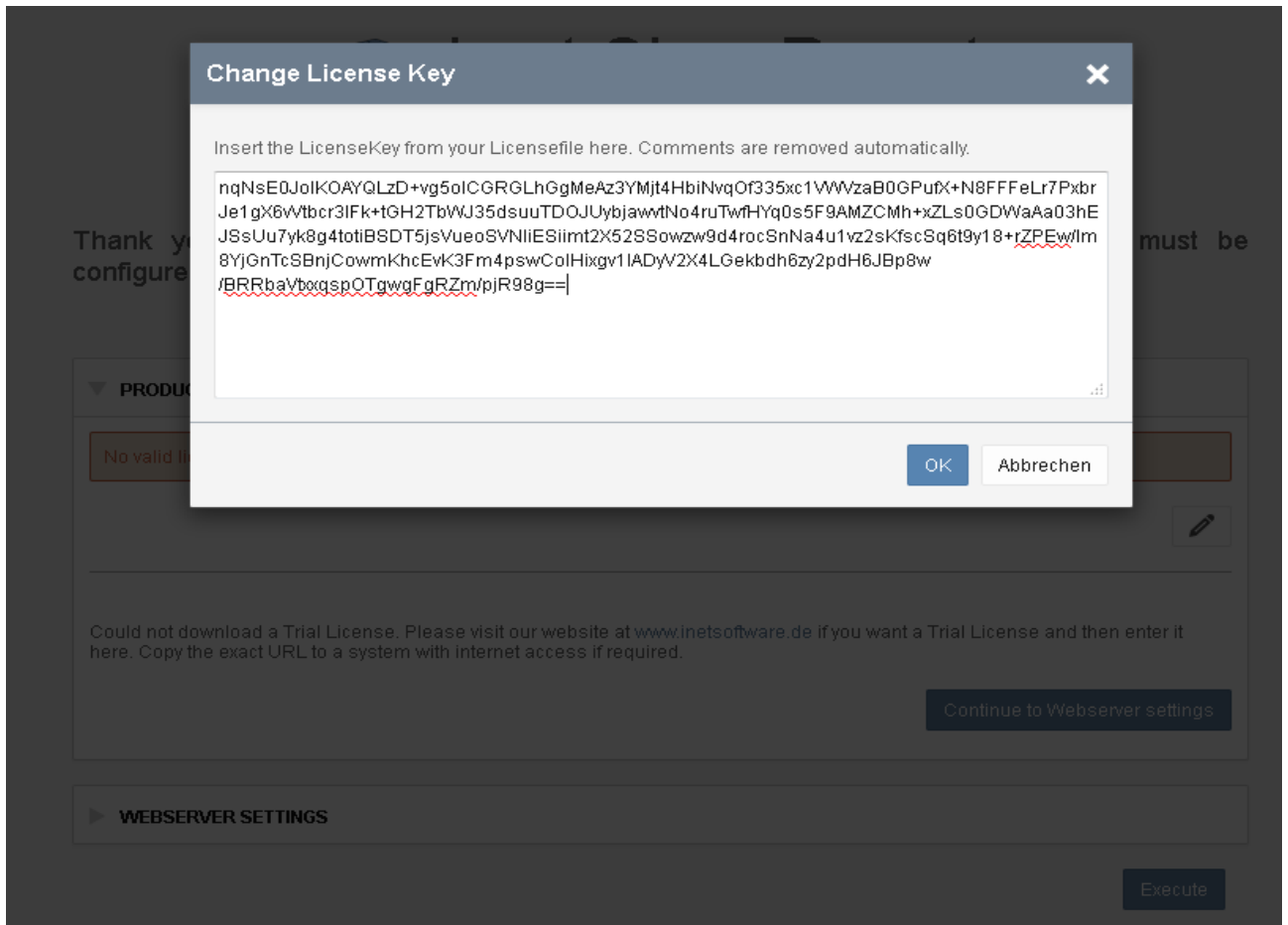


Figure 74: Entering the i-net Clear Reports 17.x License

Click “OK” after entering the License.

25. Open the “Webserver Settings” and change the port from 80 to 9000. If the port is already 9000, don’t change it.

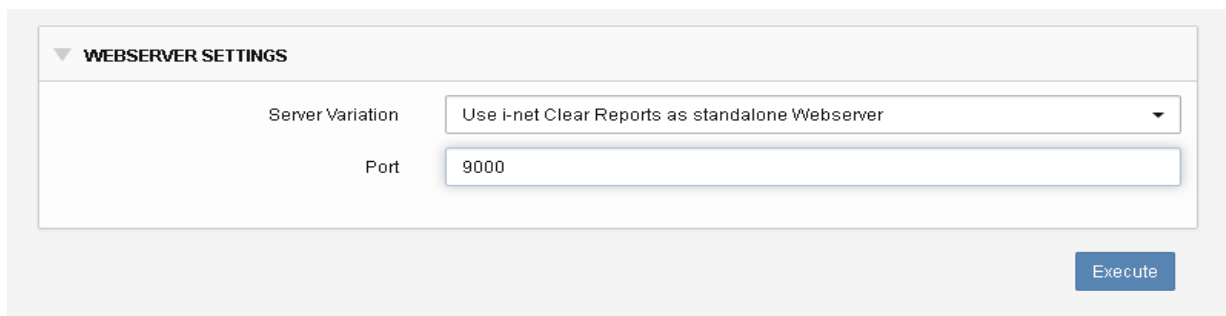


Figure 75: Changing the port from 80 to 9000

Click the “Execute” button as shown in above screenshot, after changing the Port.

26. After clicking on the “Execute” button in the previous step, the i-net Clear Reports installation will complete as shown below:

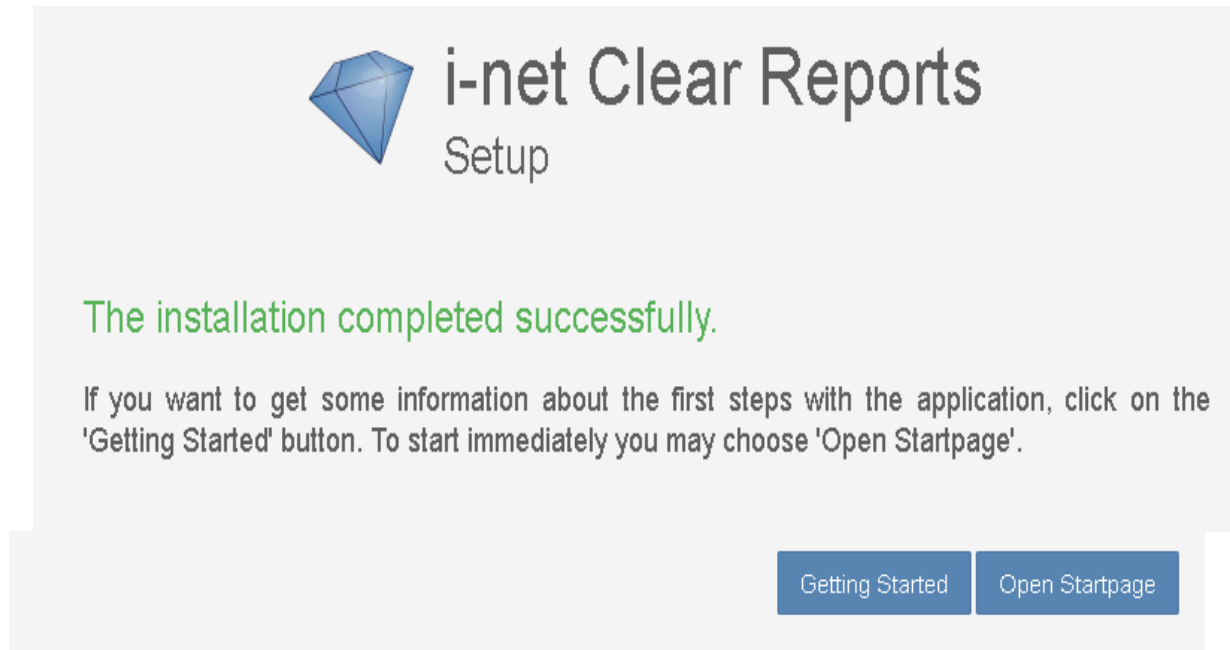


Figure 76: i-net Clear Reports installation completed

Click on “Open Startpage” link as shown above.

27. On clicking on the “Open Startpage” in the previous step, the following Startpage will appear:

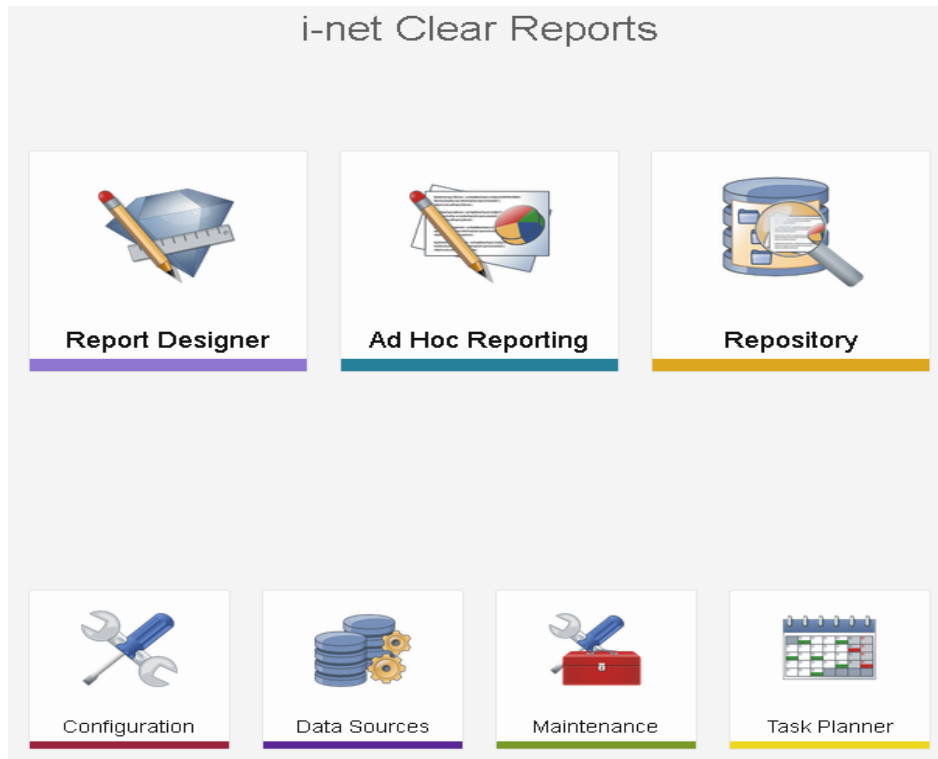


Figure 77: Start Page

Click on “Configuration” Link. The following screen will appear after that:

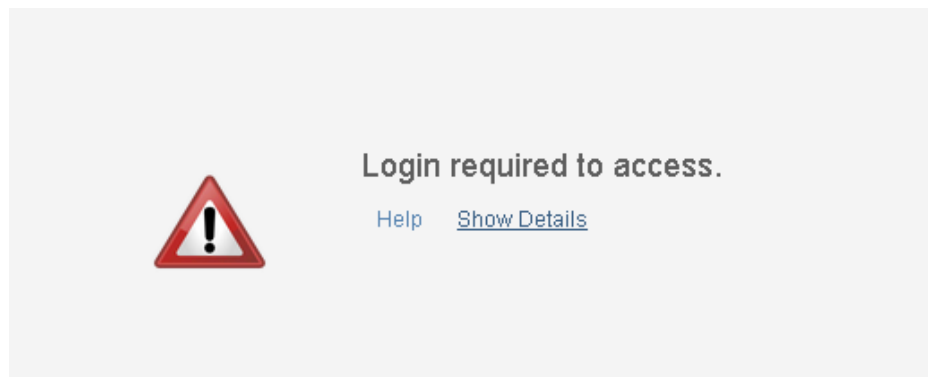


Figure 78: Login Required to Access

28. `Close the current browser window where the error message was observed. Login to OCEEMS client using root user and launch “Reporting Studio” using the “Reporting Studio” link available in top menu bar.

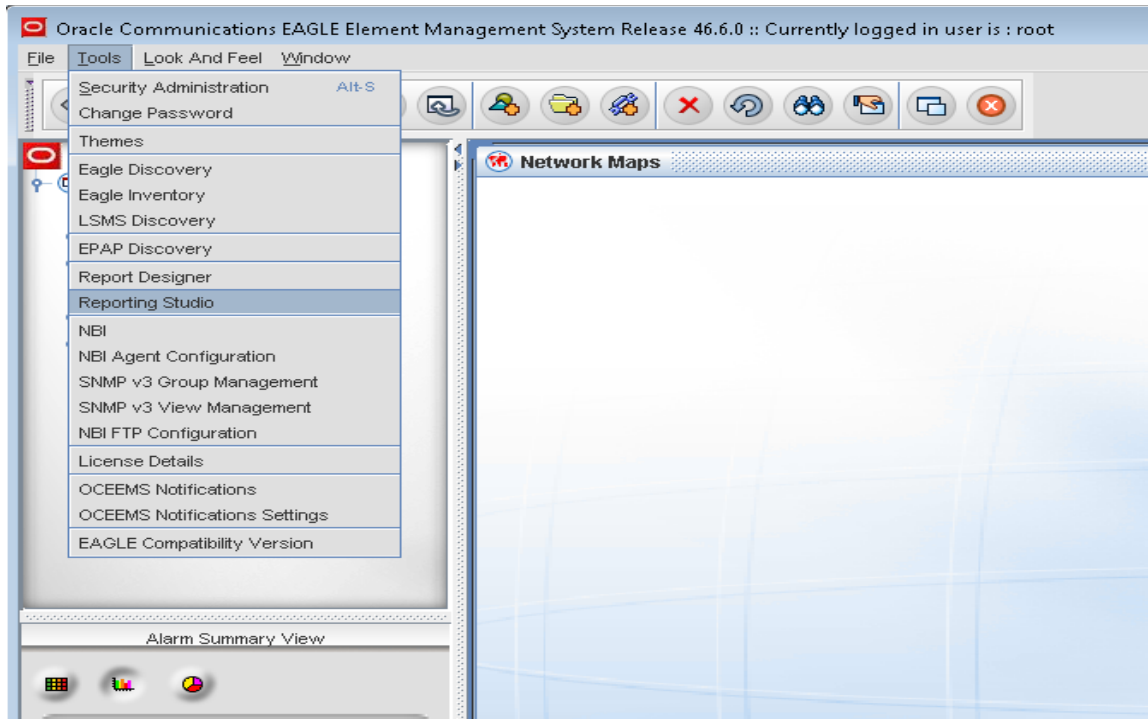


Figure 79: Reporting Studio” link available in top menu bar

29. After opening the i-net through OCEEMS, click on “Configuration” on the Start page.

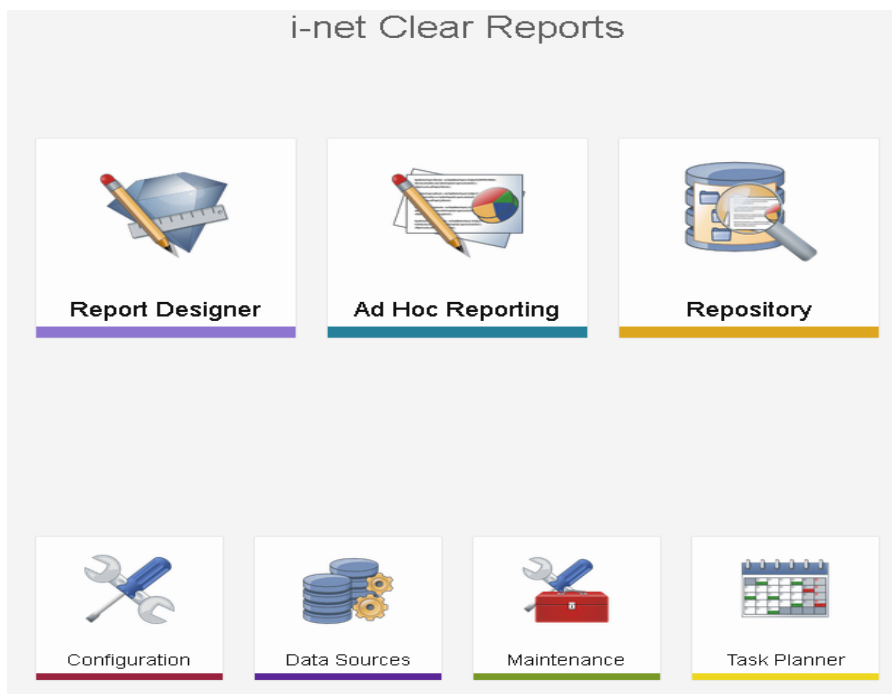


Figure 80: Click on Configuration

30. After clicking on Configuration, the Configuration screen will open in Default view, change it to Advance View by clicking on “Switch to Advance View” at top right corner, as seen below:

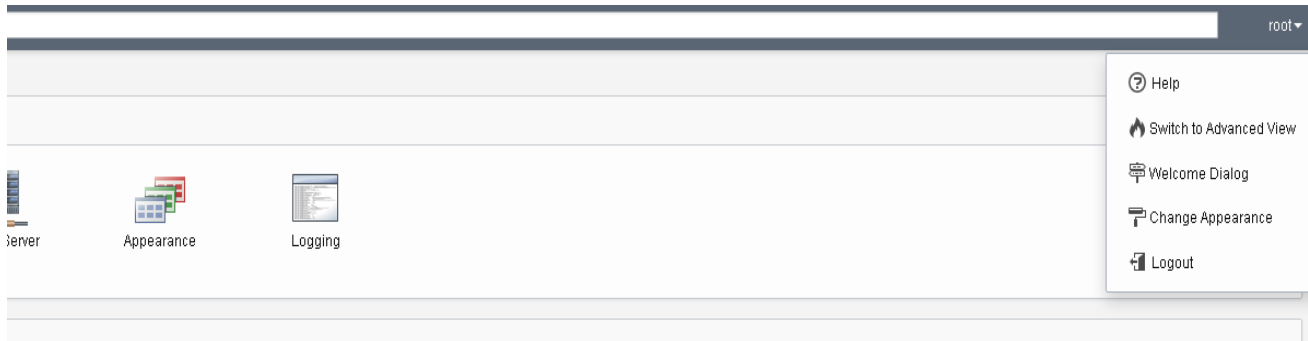


Figure 81: Switch to Advanced View

31. After switching to Advanced Configuration view, click on “License” option under “General” section.

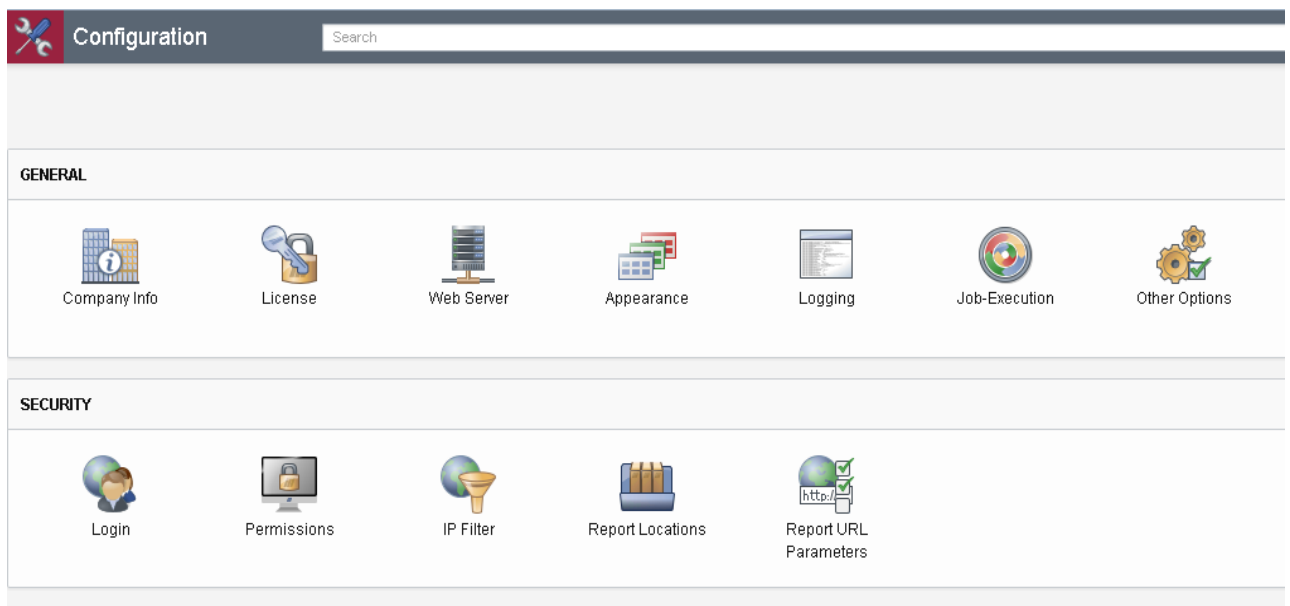


Figure 82: Click on License option

32. After clicking on “License” option in the previous step, the old i-net 15.x license will appear, along with the current i-net 17.x license. Delete the old i-net 15.x license, by clicking on “Delete” as shown below:

License
✕

System Information

Available IP addresses	192.168.122.1, 10.248.21.69
Available processors	4

License Key

Plus OEM Developer License for 1 year
License for old version: 16
⋮

Expires	January 27, 2018
Licensee	Oracle
Application	i-net Clear Reports
Watermark	Developer Edition
Plus Features	Yes
CPU count	1
Version	16
License Key	Ow6BSulltoRYXS+SoPRimjdFU0SwwGuxU6oxdVH+e9/M1J6kiwZyxsmXritd8dFY18oMe3969F5PCAjVvuknDND2e66k47nToeEM39J/Z1p/FLVj5Cr8mmWuUEPB6QwDw6cUlm73UPsVAL2g2RiehqjEMVK4PrJJ0lbTRCVCDIfm7ukXR1O9j2G1npoiqcNFm0yOpNXfxdlm8o9bNe eZSlwS539Xo5w9aRnUStCZqKctm5Py7RG2eP3UaGmo8wZo0ca5w3yRIAS16pCpucMHhki0SBYKVG6zEK6luDesQQu8K7E0YJEnu nccnpe1JG5JMPvYdwVgiVcmzq3Zg==

Edit

Delete

Plus Trial License for 90 days (will expire on Mar 4, 2018) with 2 clients
Valid, active license
⋮

Expires	March 4, 2018
Application	i-net Clear Reports
Plus Features	Yes
IP address	10.248.21.69
Client count	2
Version	17
License Key	nqNsE0JolKOAYQLzD+vg5olCGRGLhGgMeAz3YMjt4HbiNvgO1335xc1VwVzaB0CPufX+N8FFFELr7PxbRJe1gX6vVtbcR3IFk+HGh2TbW J3SdsuuTDOJlybjawvtNo4ruTwrHYq0s5F9AMZCMh+xZLs0GDW/aAa03hEJSuU7yk8g4ttotBSDT5jsVueoSVNIESiimt2X52SSowzw9 d4rocSnNa4u1vz2skfscSg8t9y18+zPEW/Am8YjGnTcSBnjCowmkHcEvk3Fm4pswColHixgv1IADyV2X4LGeKbdh6zy2pdH6JBp8w/BR RbaVbxxqspOTgwgFgRZmjpJR98g==

Figure 83: Delete the old i-net 15.x License

33. After, deleting the old i-net 15.x license, only the i-net 17.x license will be seen. Click “Save”.

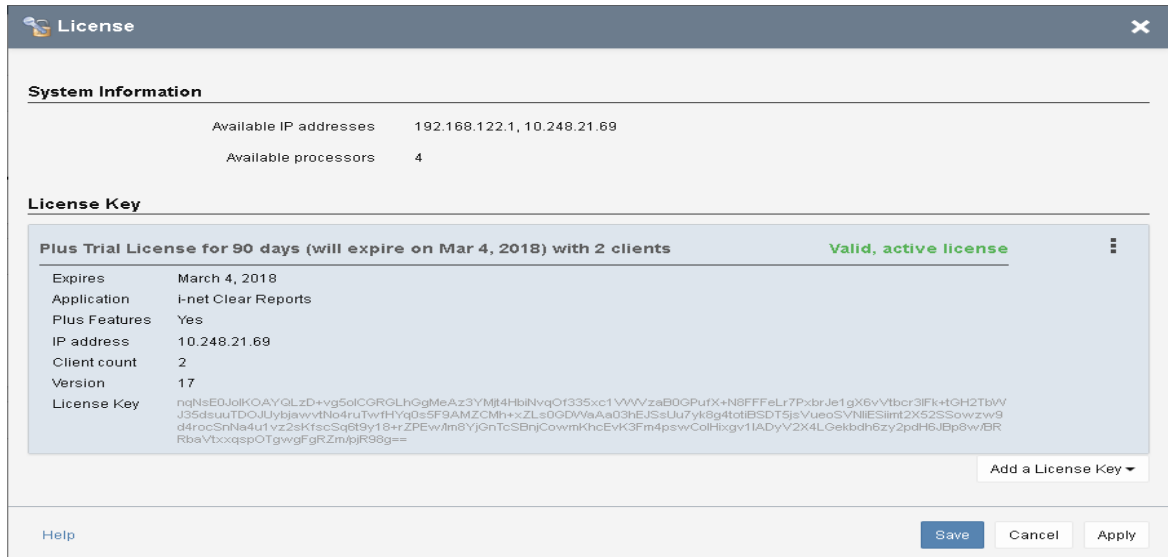


Figure 84: Active License of i-net 17.x

34. The Upgradation is complete. The i-net 15.x “Default” Configuration, “e5msdb” Data Source and Scheduler tasks are migrated to i-net 17.x.
 To check, on the “Configuration” Screen, click on “Manage” at the top right corner, to verify that the i-net 15.x “Default” Configuration is migrated to i-net 17.x.

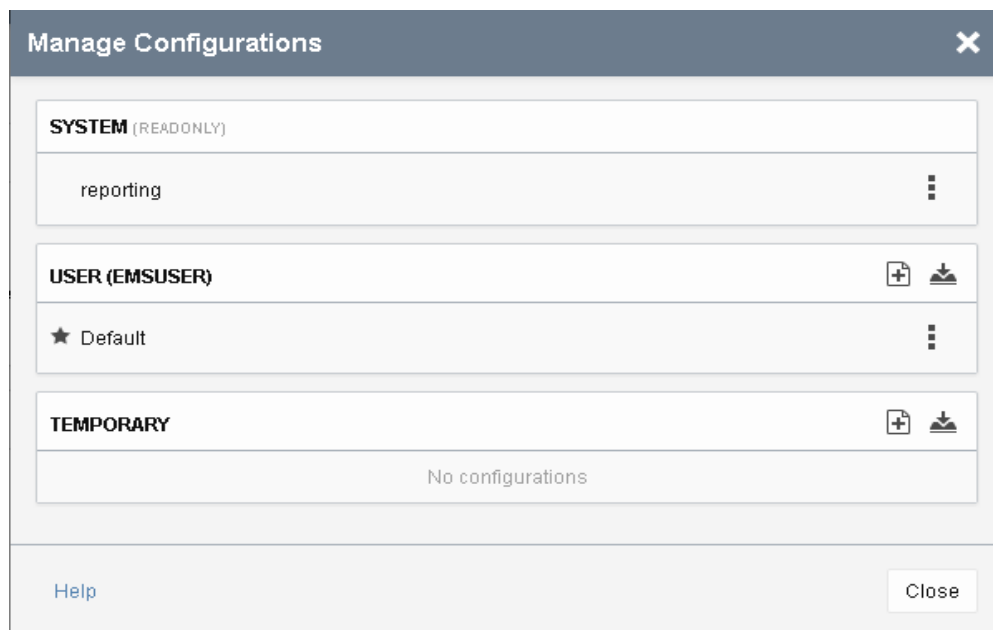



Figure 85: i-net 15.x "Default" Configuration migrated to i-net 17.x

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Data Sources” link, to verify i-net 15.x “e5msdb” Data Source is migrated to i-net 17.x.

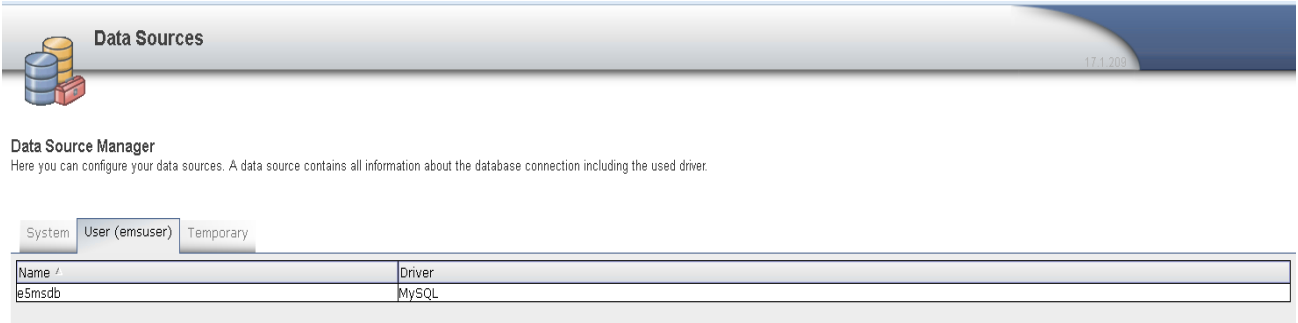



Figure 86: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Task Planner” link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.

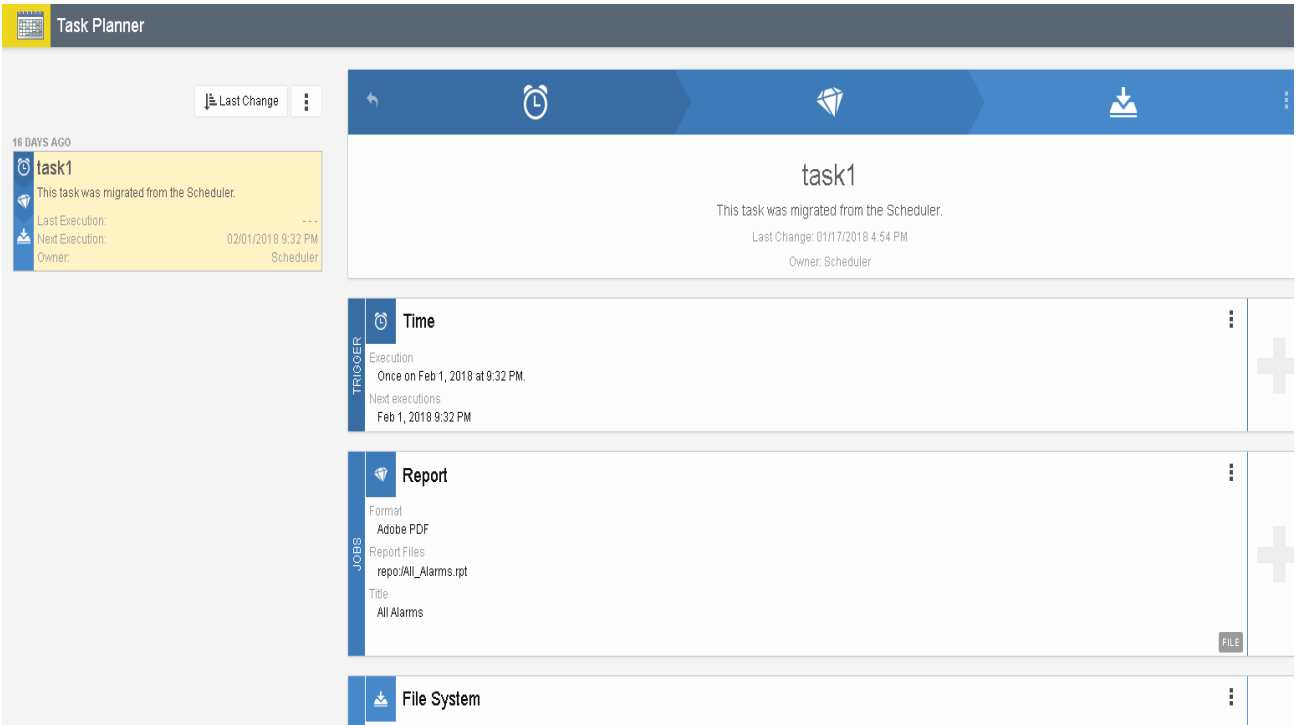


Figure 87: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

2.4.2 When i-net Clear Reports 15.x is running with root user (only possible in case i-net 15.x has been upgraded from i-net 12.x)

1. Login with the super user 'root'. **These steps should be performed by super user 'root'.**
2. The i-net Clear Reports 15.x is installed with the root user, so first uninstall i-net 15.x. For that, go to the i-net 15.x installation directory and run the script "uninstall.sh", as shown below:

```
# cd /opt/i-net\ Clear\ Reports\ 15/  
# sh uninstall.sh
```

```
[root@e5ms69 bin]# cd /opt/i-net\ Clear\ Reports\ 15/  
[root@e5ms69 i-net Clear Reports 15]# sh uninstall.sh
```

Figure 88: Uninstalling i-net Clear Reports 15.x

3. Remove the i-net 15.x installation directory by running the following command:

```
# rm -rf /opt/i-net\ Clear\ Reports\ 15/
```

```
[root@e5ms69 i-net Clear Reports 15]# rm -rf /opt/i-net\ Clear\ Reports\ 15/  
[root@e5ms69 i-net Clear Reports 15]# █
```

Figure 89: Removing i-net 15.x installation directory

4. Now, install the i-net Clear Reports 17.x.
5. In the system, check whether the 9000 port is free or not. I-net Clear Reports runs on port 9000. Run the below command:

```
# netstat -tulpn|grep 9000
```

- a) If output of the above command is blank, as shown below, then skip the Step 6:

```
[root@e5ms69 bin]# netstat -tulpn|grep 9000  
[root@e5ms69 bin]# █
```

Figure 90: Blank Output of netstat command

- b) If output of the above command is like, as shown below, then move to the Step 6:

```
tcp6    0    0 :::9000          :::*              LISTEN      17869/java
```

In the above output, the number "17869" is the PID of the process.

```
[root@e5ms69 inet17.1.146rpm]# netstat -tulpn|grep 9000
tcp6      0      0  :::9000          :::*              LISTEN      17869/java
[root@e5ms69 inet17.1.146rpm]#
```

Figure 91: Non-Blank Output of netstat command

6. Run the below command, to kill the process in the Step 5.b.

```
# kill -9 <PID of the process at step 1.b>
e.g. kill -9 17869
```

```
[root@e5ms69 inet17.1.146rpm]# kill -9 17869
[root@e5ms69 inet17.1.146rpm]#
```

Figure 92: Killing of the process

7. Unzip the Reporting Studio zip file to the “reporting-studio” directory, using the command given below:

```
# unzip <reporting studio zip> -d reporting-studio
```

```
[root@e5ms69 RPMs]# unzip reporting-46.6.0.0.0-466.6.0.zip -d reporting-studio
Archive:  reporting-46.6.0.0.0-466.6.0.zip
  inflating: reporting-studio/clear-reports-server-17.1.209.rpm
 extracting: reporting-studio/authentication.script.zip
  inflating: reporting-studio/E5msFilter-46.6.0.0.0-466.6.0.jar
  inflating: reporting-studio/NmsServerClasses.jar
  inflating: reporting-studio/mysql-connector-java.jar
[root@e5ms69 RPMs]#
```

Figure 93: Unzipping the Reporting Studio Zip

8. Move to the new “reporting-studio” directory created in above step and verify the contents of reporting studio zip file by running the following command:

```
# cd reporting-studio
# ll
```

```
[root@e5ms69 RPMs]# cd reporting-studio/
[root@e5ms69 reporting-studio]# ll
total 110884
-rw-r--r-- 1 root root    31882 Dec 18 11:32 authentication.script.zip
-rw-r--r-- 1 root root 103855909 Dec 18 11:43 clear-reports-server-17.1.209.rpm
-rw-r--r-- 1 root root    7933 Mar 29 2016 E5msFilter-46.6.0.0.0-466.6.0.jar
-rw-r--r-- 1 root root   960374 Jan 20 2015 mysql-connector-java.jar
-rw-r--r-- 1 root root   8682589 Jan 21 2015 NmsServerClasses.jar
[root@e5ms69 reporting-studio]#
```

Figure 94: Verifying the contents of reporting-studio directory

9. Now, when you are inside the same “reporting-studio” directory created in the above steps, install the i-net Clear Reports RPM, by running the following command:

```
# rpm -ivh <Reporting Studio RPM>
```

```
[root@e5ms69 reporting-studio]# rpm -ivh clear-reports-server-17.1.209.rpm
Preparing...                               ##### [100%]
Updating / installing...
 1:clear-reports-server-17.1.209-1         ##### [100%]
Removed old APACHE-Configuration of previous product installation
Starting clear-reports (via systemctl):    [ OK ]
.....
#####
#
#
#      Continue setup using the following URL in a browser:
#      http://localhost:9000/setup/1bf2dec6-f4e9-4ce3-ba8a-fd4b595ee326
#
#
#####

[root@e5ms69 reporting-studio]#
```

Figure 95: Installing the i-net Clear Reports RPM

10. Inside the “reporting-studio” directory, run the following command to copy the “E5msFilter-<version>.jar” and the “NmsServerClasses.jar” to the “<i-net Installation Directory>/lib” folder.

```
# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
```

```
[root@e5ms69 reporting-studio]# cp E5msFilter-46.6.0.0-466.6.0.jar NmsServerClasses.jar /usr/share/i-net-clear-reports/lib
[root@e5ms69 reporting-studio]#
```

Figure 96: Copying the E5msFilter jar and NmsServerClasses jar

11. Inside the “reporting-studio” directory, run the following command to copy the “mysql-connector-java.jar” to the “<i-net Installation Directory>/lib/driver” folder.
Enter ‘y’ when asked to overwrite.

```
# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
```

```
[root@e5ms69 reporting-studio]# cp mysql-connector-java.jar /usr/share/i-net-clear-reports/lib/driver
cp: overwrite '/usr/share/i-net-clear-reports/lib/driver/mysql-connector-java.jar'? y
[root@e5ms69 reporting-studio]#
```

Figure 97: Copying the mysql-connector jar

12. Inside the “reporting-studio” directory, run the following command to copy the “authentication.script.zip” plugin to the “<i-net Installation Directory>/plugins” folder.

Enter ‘y’ when asked to overwrite.

```
# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/
```

```
[root@e5ms69 reporting-studio]# cp authentication.script.zip /usr/share/i-net-clear-reports/plugins/
cp: overwrite '/usr/share/i-net-clear-reports/plugins/authentication.script.zip'? y
[root@e5ms69 reporting-studio]#
```

Figure 98: Copying the authentication.script.zip plugin

13. Go to “/Tekelec/WebNMS/bin” directory and run the script “updateInetUser.sh” to change the i-net user. This script will change the i-net user as per the user operating the OCEEMS. Run the following commands:

```
# cd /Tekelec/WebNMS/bin
```

```
# sh updateInetUser.sh
```

```
[root@e5ms69 bin]# sh updateInetUser.sh
This scripts changes the i-net 17 user to root or non root user as per the user operating the OCEEMS.
The i-net User is changed to root. root can now operate the i-net 17.
[root@e5ms69 bin]#
```

Figure 99: Changing the i-net User

14.
a) **If you are installing i-net 17.x with root user:**

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the root user, to restart the i-net service.

```
# cd /Tekelec/WebNMS/bin
```

```
# sh inetService.sh restart
```

```

[root@e5ms69 bin]# cd /Tekelec/WebNMS/bin
[root@e5ms69 bin]# sh inetService.sh restart
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[root@e5ms69 bin]# █

```

Figure 100: Restarting the i-net Service with root user

b) If you are installing i-net 17.x with non-root user:

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the non-root user, to restart the i-net service.

```

# cd /Tekelec/WebNMS/bin
# sh inetService.sh restart

```

```

[emsuser@e5ms69 bin]$ sh inetService.sh restart
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.s
ervice changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[emsuser@e5ms69 bin]$ █

```

Figure 101: Restarting the i-net Service with non-root user

15.

a) If you are installing i-net 17.x with root user:

Run the following command with root user:

```

# rm -rf /root/.java/.userPrefs/com/inet/report/config/cc/Default/*

```

```

[root@e5ms69 bin]# rm -rf /root/.java/.userPrefs/com/inet/report/config/cc/Default/*
[root@e5ms69 bin]# █

```

Figure 102: Deleting Configurations of root user

b) If you are installing i-net 17.x with non-root user:

Run the following commands with root user:

```

# rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/*
# rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/*

```

```
[root@e5ms69 bin]# rm -rf /home/emsuser/.java/.userPrefs/com/inet/report/config/cc/Default/*
[root@e5ms69 bin]# rm -rf /home/emsuser/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/*
[root@e5ms69 bin]# █
```

Figure 103: Deleting Configurations of non-root user

16.

a) If you are installing i-net 17.x with root user:

Run the following commands with root user:

```
# cd /etc/.java/.systemPrefs/com/inet/report/config/cc/
# cp -r <i-net 15.x configuration name>/. /root/.java/.userPrefs/com/inet/report/config/cc/Default/
```

In the above command, in place of <i-net 15.x configuration name> write the name of the configuration present in i-net 15.x. E.g. “reporting” as shown below:

```
[root@e5ms69 bin]# cd $JAVA_HOME/../../.java/.systemPrefs/com/inet/report/config/cc/
[root@e5ms69 cc]# cp -r reporting/. /root/.java/.userPrefs/com/inet/report/config/cc/Default/
[root@e5ms69 cc]# █
```

Figure 104: Copying Configurations of root user

b) If you are installing i-net 17.x with non-root user:

Run the following commands with root user:

```
# cd /etc/.java/.systemPrefs/com/inet/report/config/cc/
# cp -r <i-net 15.x configuration name>/. /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/
```

In the above command, in place of <i-net 15.x configuration name> write the name of the configuration present in i-net 15.x. E.g. “reporting” as shown below:

```
[root@e5ms69 bin]# cd $JAVA_HOME/../../.java/.systemPrefs/com/inet/report/config/cc/
[root@e5ms69 cc]# cp -r reporting/. /home/emsuser/.java/.userPrefs/com/inet/report/config/cc/Default/
[root@e5ms69 cc]# █
```

Figure 105: Copying Configurations of non-root user

```
# cd /root/.java/.userPrefs/com/inet/report/config/datasource/
# cp -r e5msdb/. /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
```

```
[root@e5ms69 cc]# cd /root/.java/.userPrefs/com/inet/report/config/datasource/
[root@e5ms69 datasource]# cp -r e5msdb/. /home/emsuser/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
[root@e5ms69 datasource]#
```

Figure 106: Copying Configurations of non-root user

17. Run the below commands with root user, only **if you are installing i-net 17.x with non-root user**, otherwise skip this step:

```
# chown -R <non-root user>:<non-root user>:/home/<non-root
user>/.java/.userPrefs/com/inet/report/config/cc/Default/
# chown -R <non-root user>::<non-root user>:/home/<non-root
user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
```

```
[root@e5ms69 datasource]# chown -R emsuser:emsuser /home/emsuser/.java/.userPrefs/com/inet/report/config/cc/Default/
[root@e5ms69 datasource]# chown -R emsuser:emsuser /home/emsuser/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
[root@e5ms69 datasource]#
```

Figure 107: Changing Permissions

- 18.

- a) **If you are installing i-net 17.x with root user:**

Run the following command with root user:

```
# rm -rf /root/.i-net\ software/reporting_User_Default/Users/*
```

```
[root@e5ms69 cc]# rm -rf /root/.i-net\ software/reporting_User_Default/Users/*
[root@e5ms69 cc]#
```

Figure 108: Deleting Tasks of root user

- b) **If you are installing i-net 17.x with non-root user:**

Run the following command with root user:

```
rm -rf /home/<non-root user>/.i-net\ software/reporting_User_Default/Users/*
```

```
[root@e5ms69 datasource]# rm -rf /home/emsuser/.i-net\ software/reporting_User_Default/Users/*
[root@e5ms69 datasource]#
```

Figure 109: Deleting Tasks of non-root user

- 19.

- a) **If you are installing i-net 17.x with root user:**

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the root user, to restart the i-net service.

```
# cd /Tekelec/WebNMS/bin  
  
# sh inetService.sh restart
```

```
[root@e5ms69 bin]# cd /Tekelec/WebNMS/bin  
[root@e5ms69 bin]# sh inetService.sh restart  
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.  
[ OK ]  
[root@e5ms69 bin]#
```

Figure 110: Restarting the i-net Service with root user

a) If you are installing i-net 17.x with non-root user:

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh restart” with the non-root user, to restart the i-net service.

```
# cd /Tekelec/WebNMS/bin  
  
# sh inetService.sh restart
```

```
[emsuser@e5ms69 bin]$ sh inetService.sh restart  
Restarting clear-reports (via systemctl): Warning: Unit file of clear-reports.s  
ervice changed on disk, 'systemctl daemon-reload' recommended.  
[ OK ]  
[emsuser@e5ms69 bin]$
```

Figure 111: Restarting the i-net Service with non-root user

20. Open URL http://<IPAddress_of_Server>:9000 for i-net Clear Reports in a browser window. It will open the i-net Clear Reports home page as shown below:

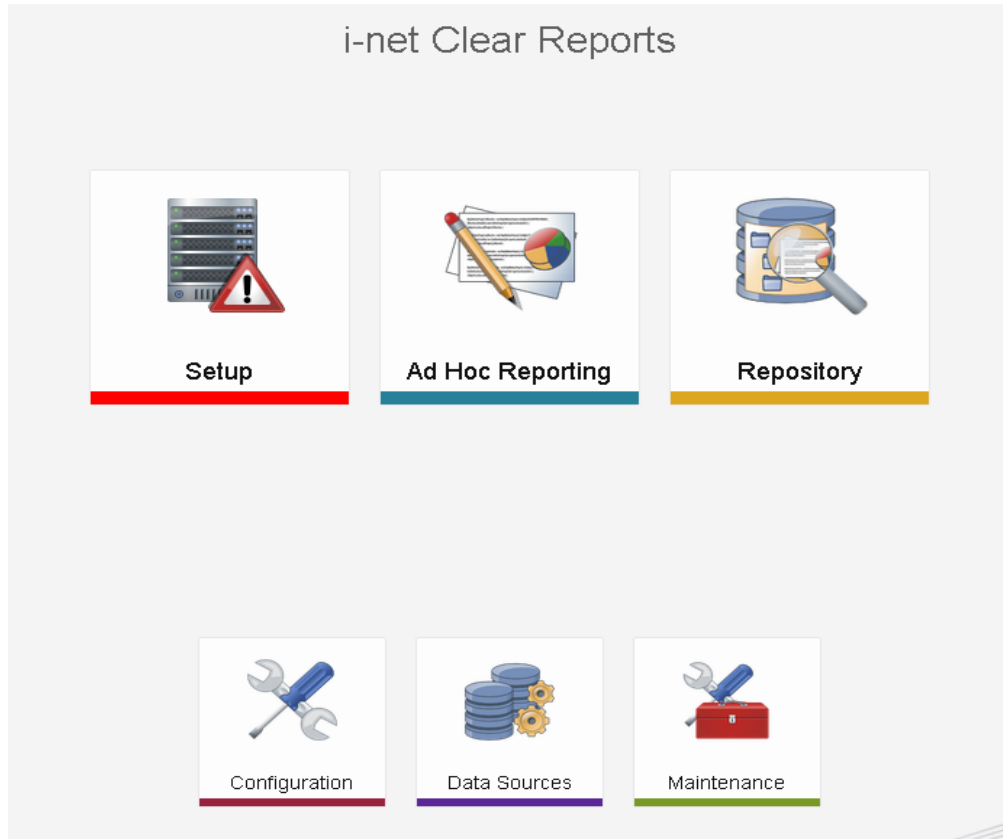


Figure 112: i-net Clear Reports home page

21. Click on “Setup” option on the i-net Clear Reports home page. It will open the i-net Clear Reports Setup window as shown below:



Figure 113: i-net Clear Reports Setup window

22.

a) If you are installing i-net 17.x with root user:

Go to “i-net installation directory”. Run the following commands with root user, to open the “webconfig.txt” file.

```
# cd /usr/share/i-net-clear-reports/
```

```
# vi webconfig.txt
```

```
[root@e5ms69 cc]# cd /usr/share/i-net-clear-reports/  
[root@e5ms69 i-net-clear-reports]# vi webconfig.txt  
[root@e5ms69 i-net-clear-reports]# █
```

Figure 114: Opening the webconfig.txt file with root user

b) If you are installing i-net 17.x with non-root user:

Go to “i-net installation directory”. Run the following commands with non-root user, to open the “webconfig.txt” file.

```
# cd /usr/share/i-net-clear-reports/
```

```
# vi webconfig.txt
```



```
[emsuser@e5ms69 bin]$ cd /usr/share/i-net-clear-reports/  
[emsuser@e5ms69 i-net-clear-reports]$ vi webconfig.txt
```

Figure 115: Opening the webconfig.txt file with non-root user

23. After opening the “webconfig.txt” file, there will be UUID inside the file. Copy the UUID by simply selecting the text next to the UUID, as shown below:

```
PROTOCOL http  
ADDRESS localhost  
PORT 9000  
UUID 59071d47-3153-41ee-95a1-2747f95c6343
```

Figure 116: Copying the UUID

24. After copying the UUID, paste the same UUID in text box at the i-net Clear Reports Setup window as shown below:



 **i-net Clear Reports**
Setup

Your server installation is not complete. Please execute the web-based Setup here. Please enter the UUID from the following file on the server:

`/usr/share/i-net-clear-reports/webconfig.txt`

59071d47-3153-41ee-95a1-2747f95c6343

Figure 117: Pasting the UUID in the UUID text box

Click on the “Start” button as shown in the above screenshot, after pasting the UUID.

25. On clicking on the “Start” button in the previous step, it will continue with the Setup and ask for the “Product License” and “Webserver Settings” as shown below:

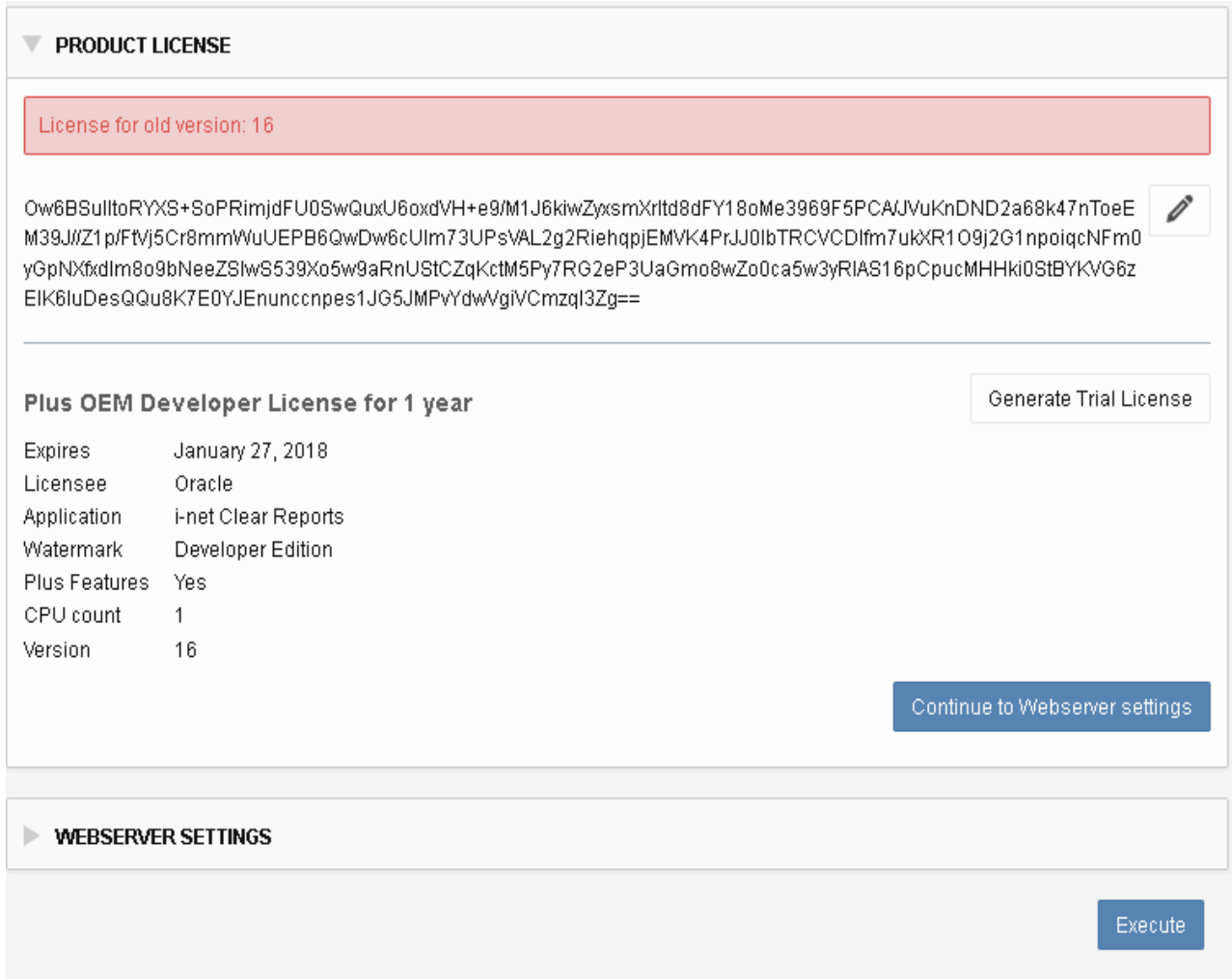


Figure 118: Product License Screen

The old i-net 15.x license will be visible by default.

26. Enter the i-net Clear Reports 17.x Product License, by clicking on the “Edit” icon as shown below:



Figure 119: Edit License Icon

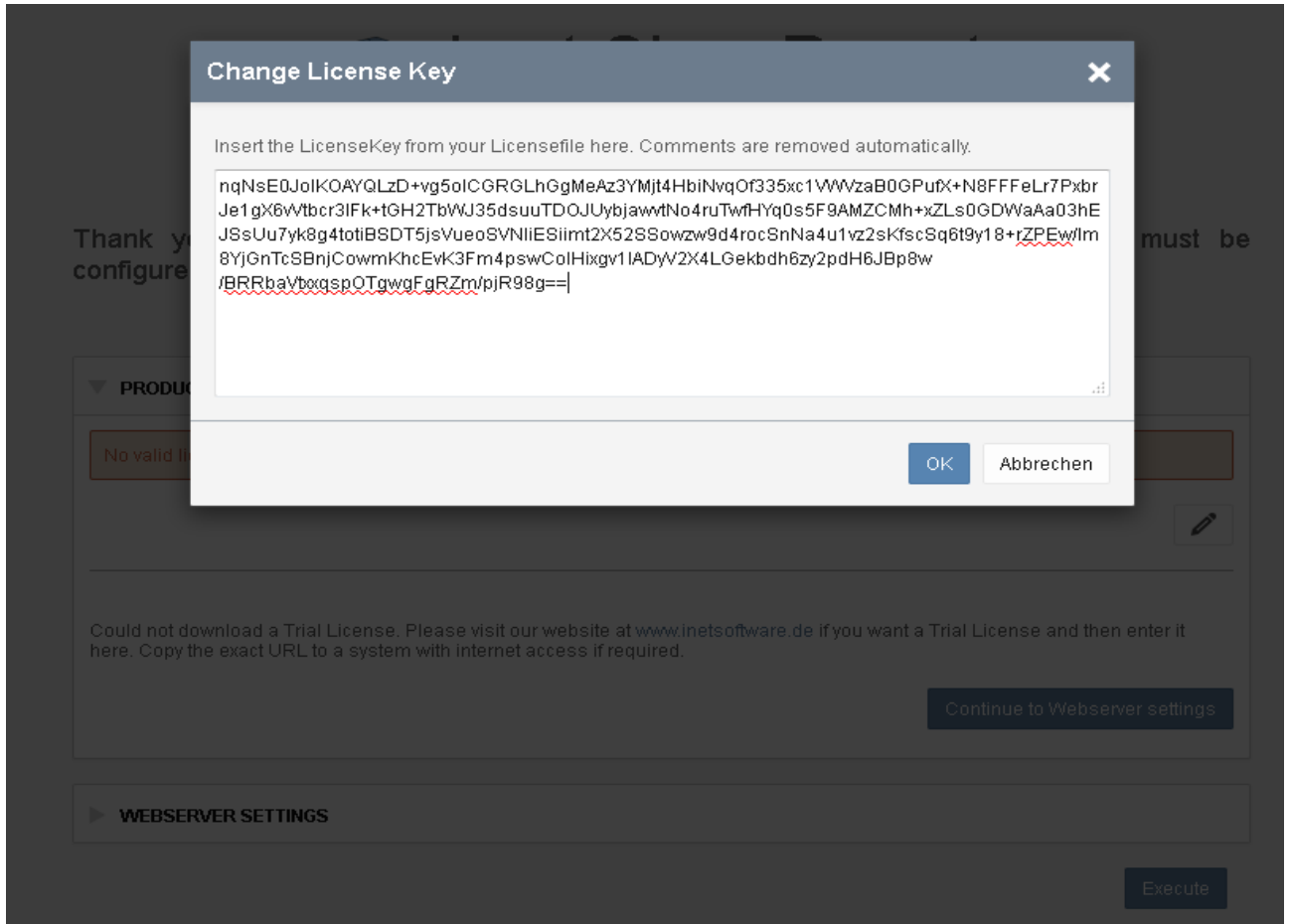


Figure 120: Entering the i-net Clear Reports 17.x License

Click “OK” after entering the License.

27. Open the “Webserver Settings” and change the port from 80 to 9000. If the port is already 9000, don’t change it.

WEBSERVER SETTINGS

Server Variation: Use i-net Clear Reports as standalone Webserver

Port: 9000

Execute

Figure 121: Changing the port from 80 to 9000

Click the “Execute” button as shown in above screenshot, after changing the Port.

28. After clicking on the “Execute” button in the previous step, the i-net Clear Reports installation will complete as shown below:

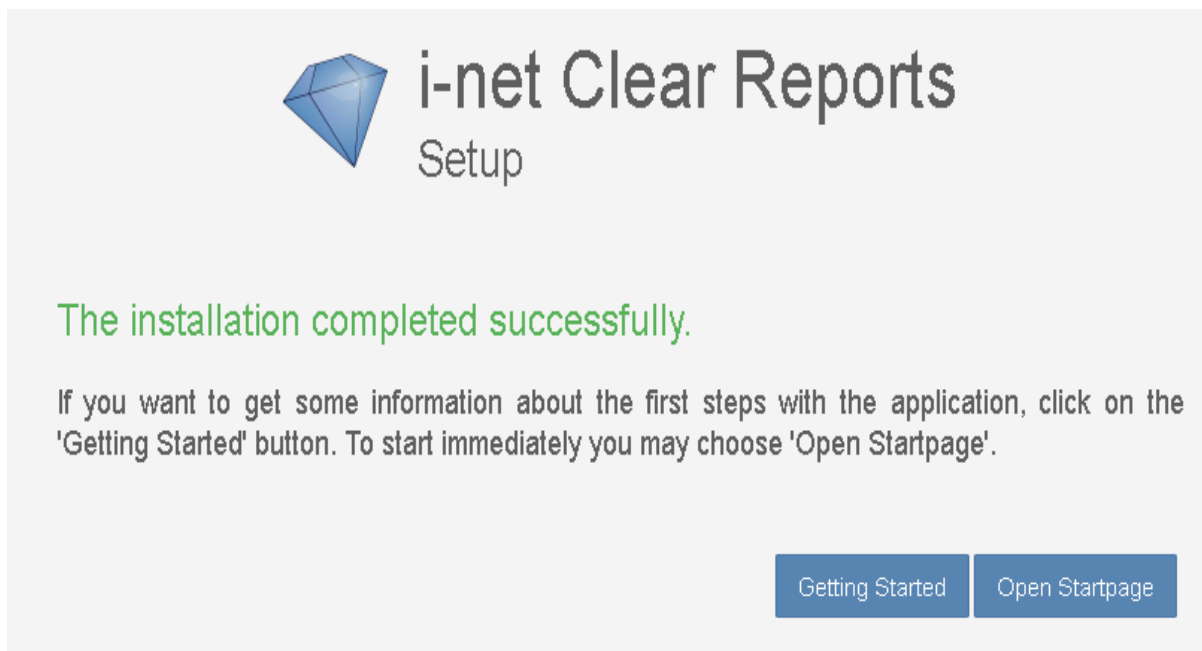


Figure 122: i-net Clear Reports installation completed

Click on “Open Startpage” link as shown above.

29. On clicking on the “Open Startpage” in the previous step, the following Startpage will appear:



Figure 123: Start Page

Click on “Configuration” Link. The following screen will appear after that:

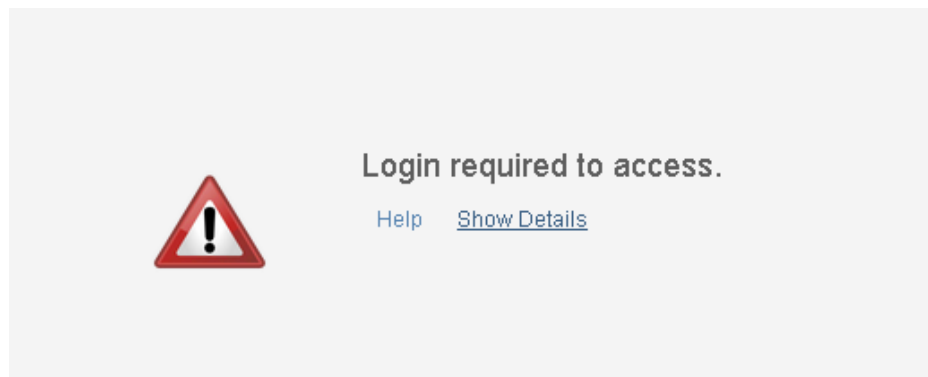


Figure 124: Login Required to Access

30. `Close the current browser window where the error message was observed. Login to OCEEMS client using root user and launch “Reporting Studio” using the “Reporting Studio” link available in top menu bar.

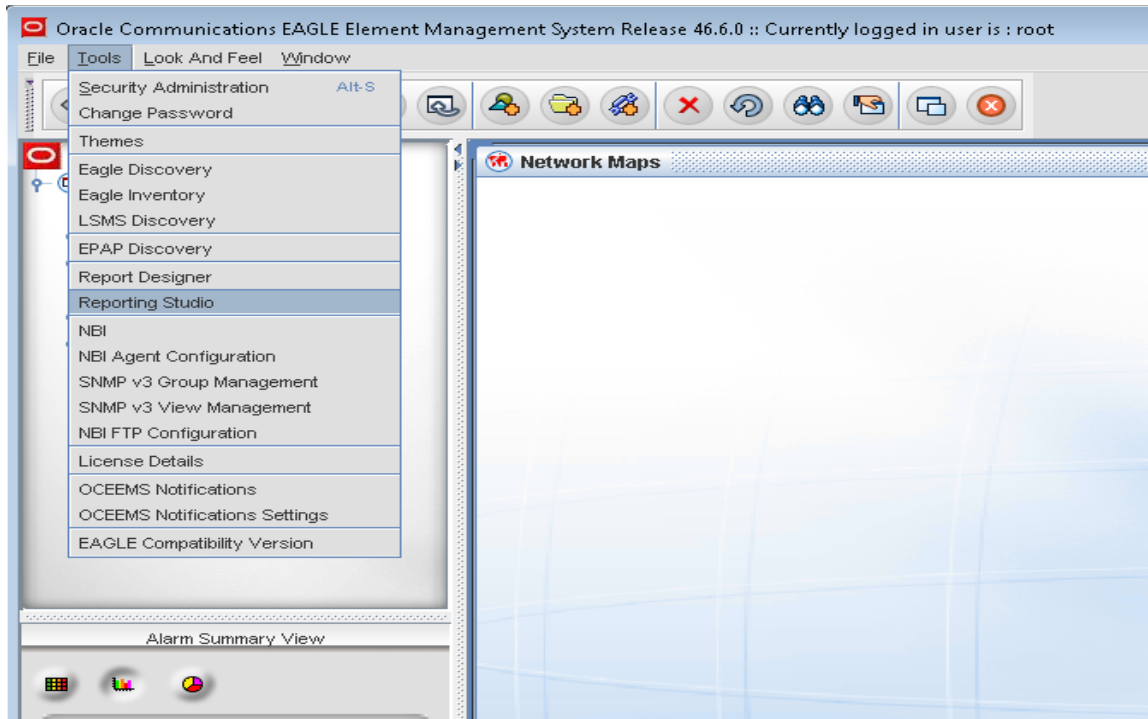


Figure 125: Reporting Studio” link available in top menu bar

31. After opening the i-net through OCEEMS, click on “Configuration” on the Start page.



Figure 126: Click on Configuration

32. After clicking on Configuration, the Configuration screen will open in Default view, change it to Advance View by clicking on “Switch to Advance View” at top right corner, as seen below:

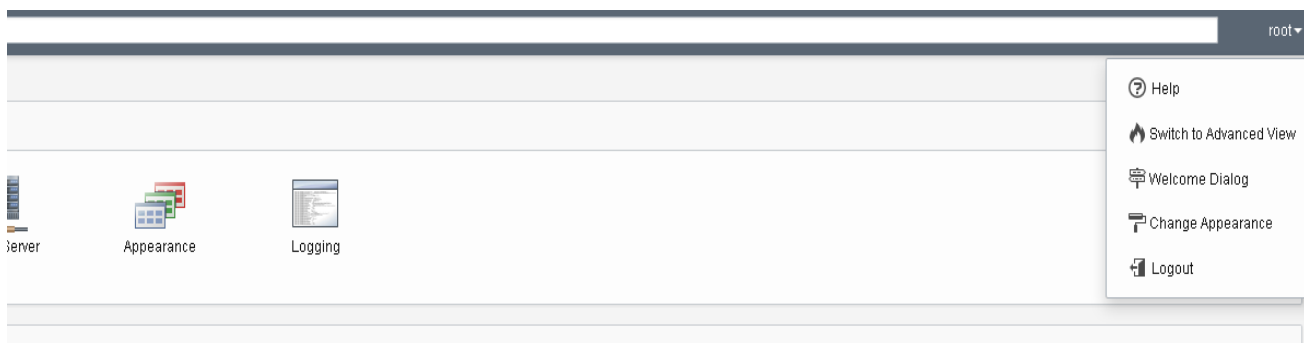


Figure 127: Switch to Advanced View

33. After switching to Advanced Configuration view, click on “License” option under “General” section.

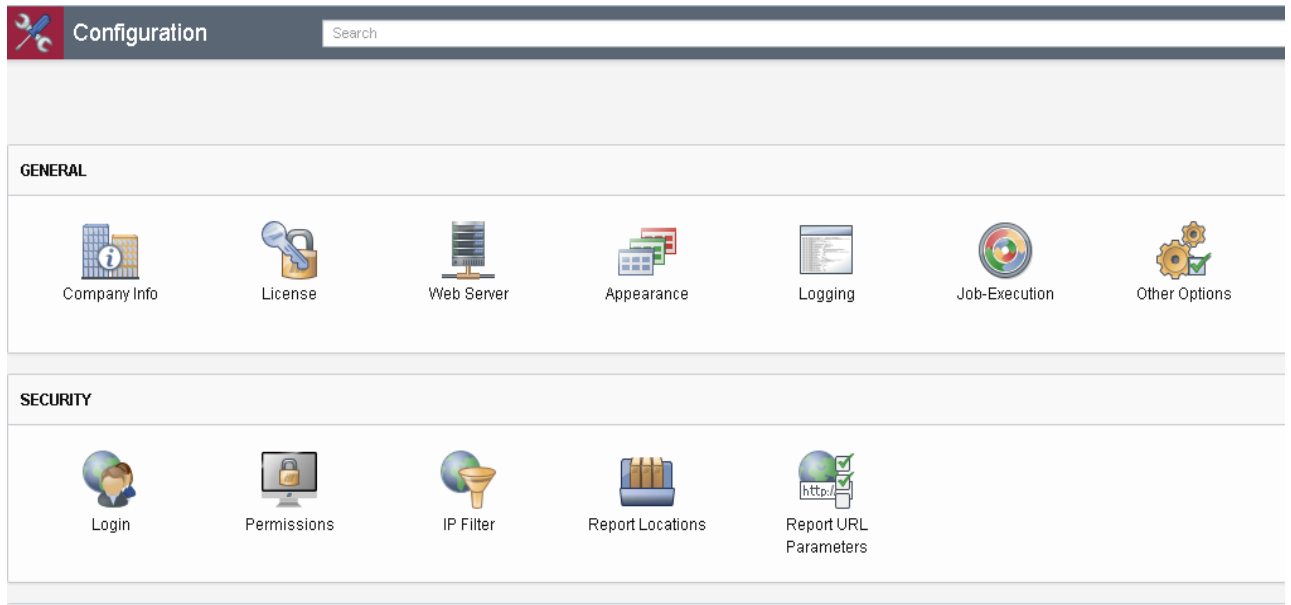


Figure 128: Click on License option

34. After clicking on “License” option in the previous step, the old i-net 15.x license will appear, along with the current i-net 17.x license. Delete the old i-net 15.x license, by clicking on “Delete” as shown below:

License
✕

System Information

Available IP addresses	192.168.122.1, 10.248.21.69
Available processors	4

License Key

Plus OEM Developer License for 1 year
License for old version: 16
⋮

Expires	January 27, 2018
Licensee	Oracle
Application	i-net Clear Reports
Watermark	Developer Edition
Plus Features	Yes
CPU count	1
Version	16
License Key	Ow6BSulltoRYXS+SoPRimjdFU0SwGuxU6oxdVH+e9/M1J6kiwZyxsmXritd8dFY18oMe3969F5PCAJVuKnDND2e66k47nToeEM39J//Z1p/FLVj5Cr8mmWuUEPB6QwDw6cUlm73UPsVAL2g2RiehqjEMVK4PrJJ0lbTRCVCDFm7ukXR1O9j2G1npoiqcNFm0yOpNXfxdlm8o9bNe eZSlwS539Xo5w9aRnUStCZqKctm5Py7RG2eP3UaGmo8wZo0ca5w3yRIAS16pCpucMHhki0SBYKVG6zEK6luDesQQu8K7E0YJEnu nccnpe1JG5JMPvYdvwVgiVcmzq3Zg==

Edit

Delete

Plus Trial License for 90 days (will expire on Mar 4, 2018) with 2 clients
Valid, active license
⋮

Expires	March 4, 2018
Application	i-net Clear Reports
Plus Features	Yes
IP address	10.248.21.69
Client count	2
Version	17
License Key	nqNse0JolkOAYQLzD+vg5olCGRGLhGgMeAz3YMjt4HbiNvgO1335xc1VWVzaB0CPufX+N8FFFELr7PxbRJe1gX6vVtbc3IFk+HGh2TbW J3SdsuuTDOJlybjawvtNo4ruTwrHYq0s5F9AMZCMh+xZLs0GDWVaAa03hEJSuU7yk8g4totBSDT5jsVueoSVNIEsIim2X52SSowzw9 d4rocSnNa4u1vz2skfscSg8t9y18+zZPEw/Am8YjGnTcSBnjCowmkHcEvK3Fm4pswColHixgv1IADyV2X4LGeKbdh6zy2pdH6JBp8w/BR RbaVbxxqspOTgwgFgRZmjpJR98g==

Figure 129: Delete the old i-net 15.x License

35. After, deleting the old i-net 15.x license, only the i-net 17.x license will be seen. Click “Save”.

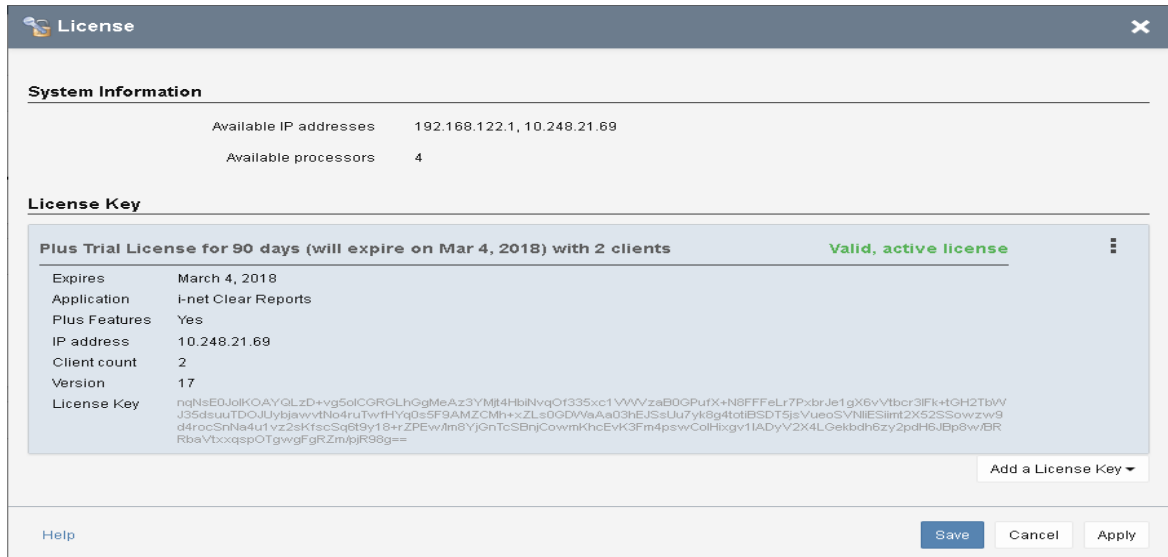


Figure 130: Active License of i-net 17.x

36. The Upgradation is complete. The i-net 15.x Configuration, “e5msdb” Data Source and Scheduler tasks are migrated to i-net 17.x.

a) **If you have installed i-net 17.x with root user:**

To check, on the “Configuration” Screen, click on “Manage” at the top right corner, to verify that the i-net 15.x Configuration is migrated to i-net 17.x as “Default” under USER(ROOT), as seen below:

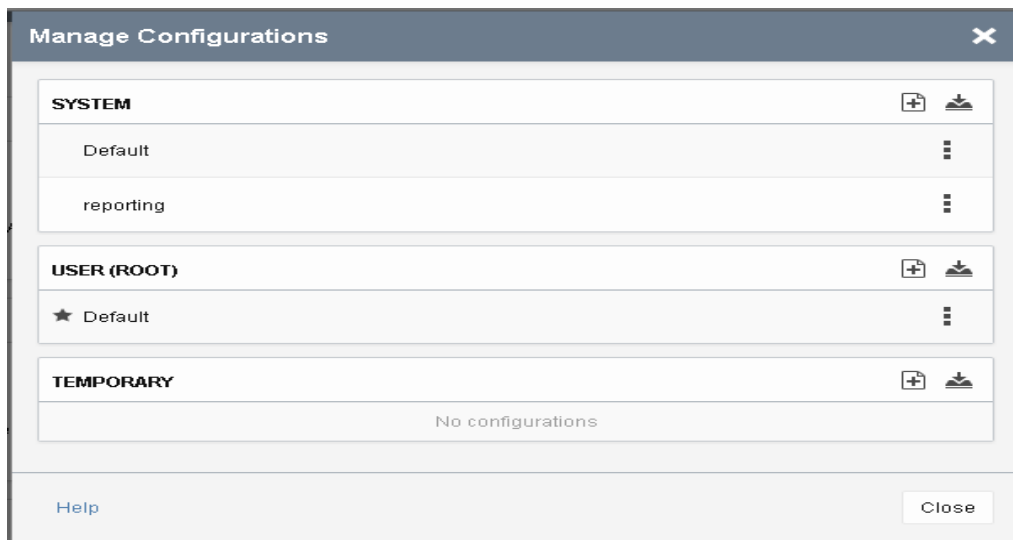



Figure 131: i-net 15.x Configuration migrated to i-net 17.x under USER(ROOT)

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Data Sources” link, to verify i-net 15.x “e5msdb” Data Source is migrated to i-net 17.x, under “User(root)” tab, as seen below:

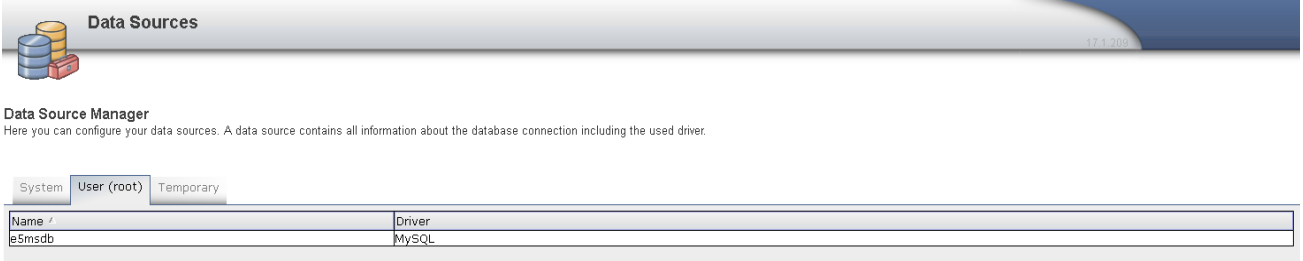



Figure 132: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(root) tab

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Task Planner” link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.

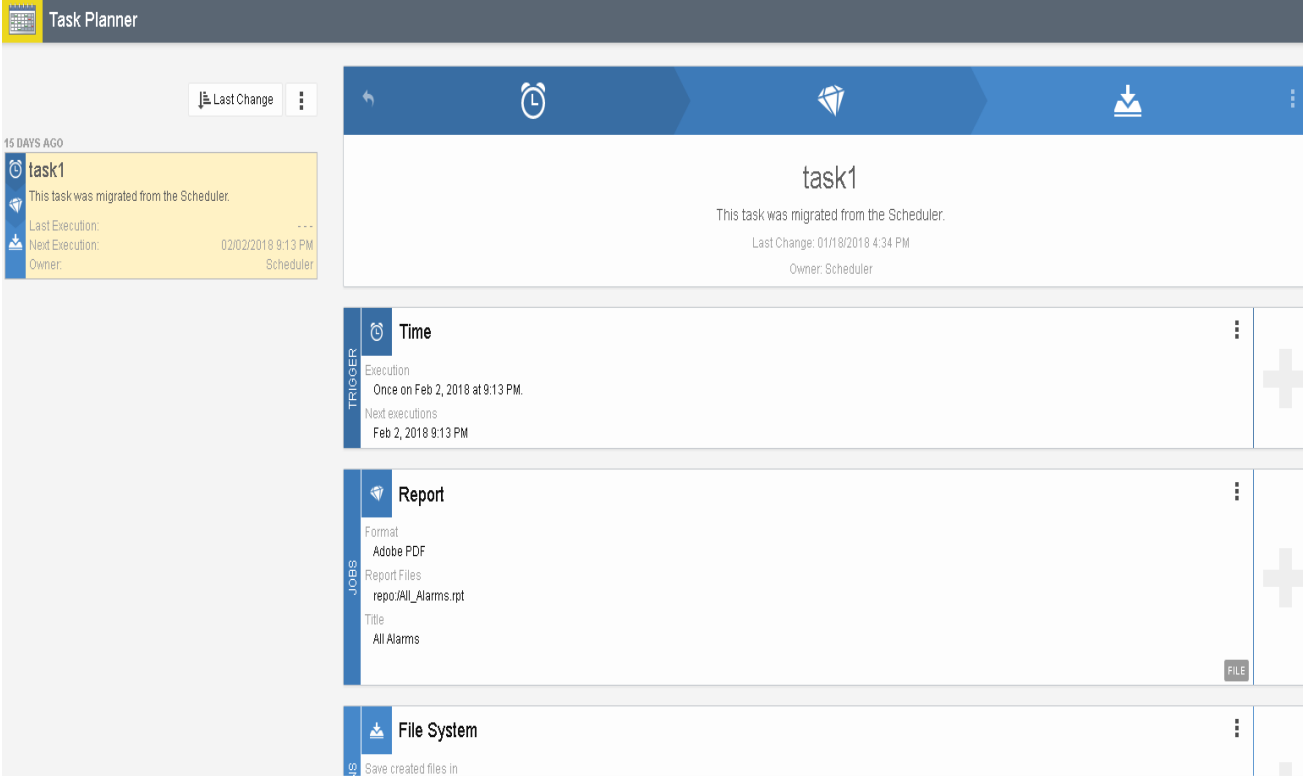


Figure 133: i-net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

b) If you have installed i-net 17.x with non-root user:

To check, on the “Configuration” Screen, click on “Manage” at the top right corner, to verify that the i-net 15.x Configuration is migrated to i-net 17.x as “Default” under USER(<NON-ROOT USER>), as seen below:

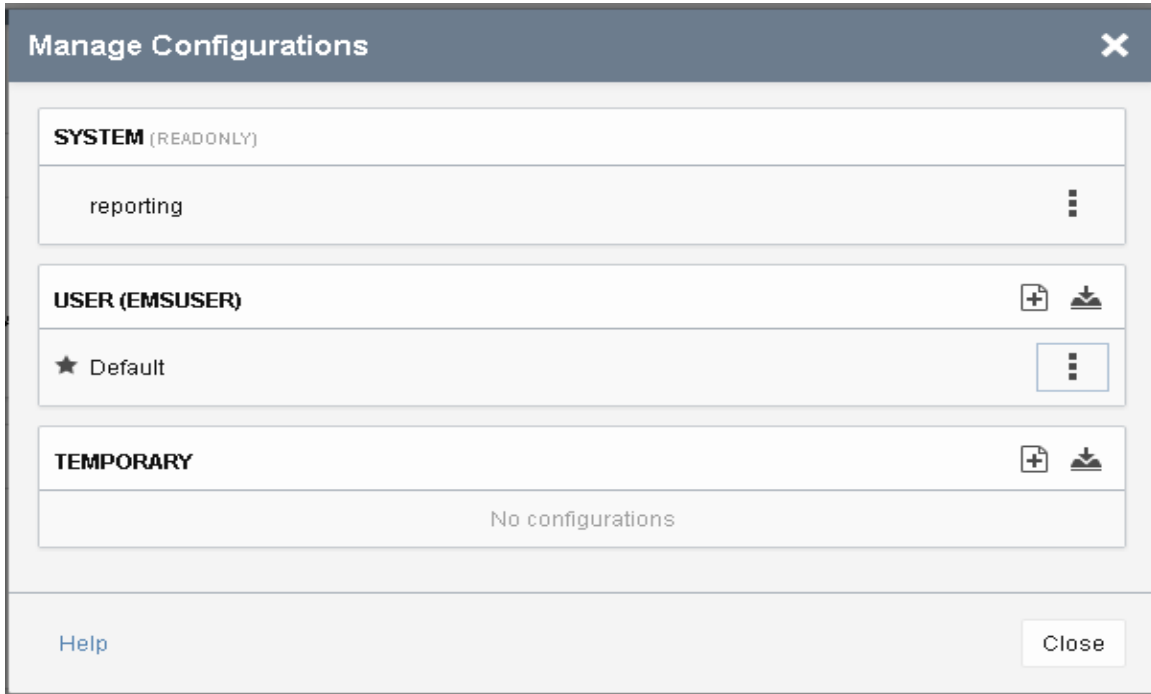



Figure 134 : i-net 15.x Configuration migrated to i-net 17.x under USER(<NON-ROOT USER>)

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Data Sources” link, to verify i-net 15.x “e5msdb” Data Source is migrated to i-net 17.x, under “User(<non-root user>)” tab, as seen below:

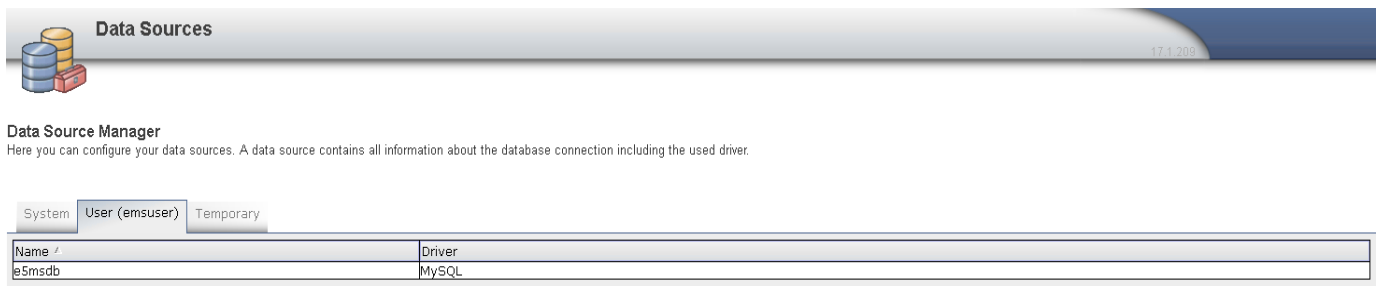

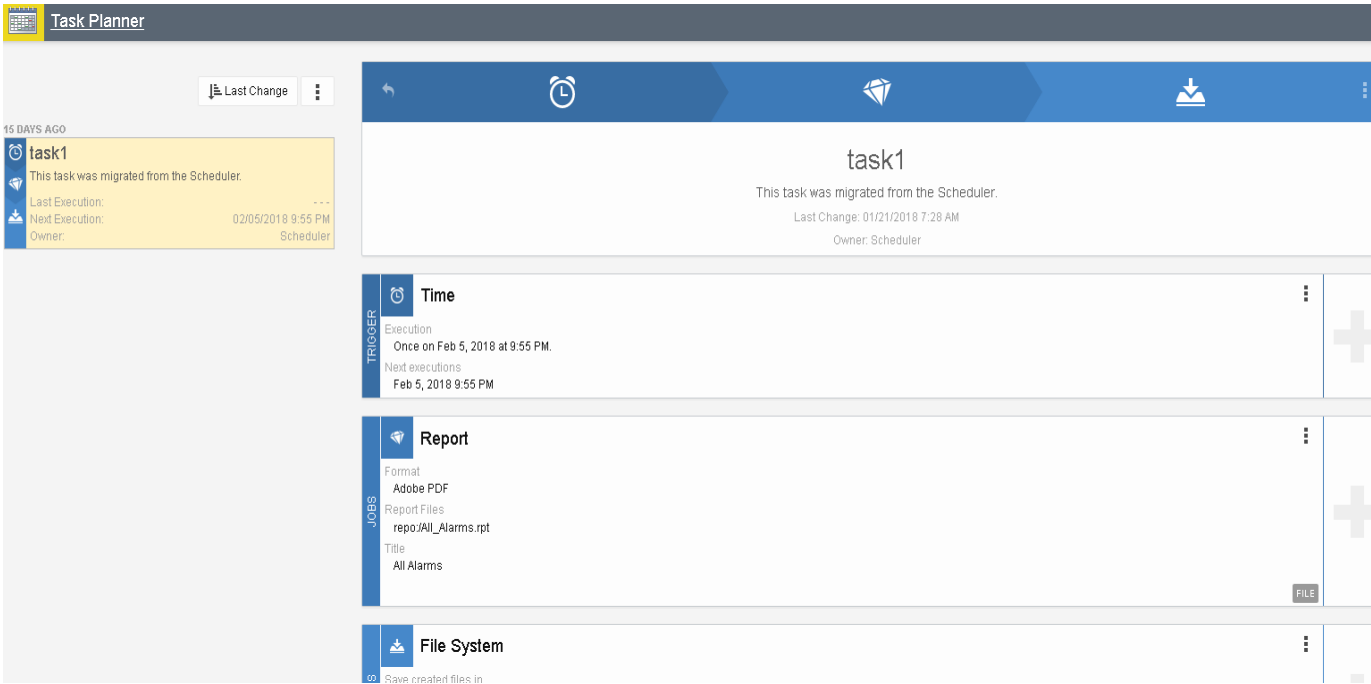


Figure 135: i-net 15.x "e5msdb" Data Source migrated to i-net 17.x under User(<non-root user>) tab

On the “Configuration” Screen, click on  icon at the top left corner, then click on “Task Planner” link, to verify i-net 15.x Scheduler tasks are migrated to i-net 17.x Task Planner.



The screenshot displays the 'Task Planner' interface. At the top left, there is a 'Last Change' button and a menu icon. Below this, a notification box indicates that 'task1' was migrated from the Scheduler 15 DAYS AGO. The main content area shows the details for 'task1', including a message that it was migrated from the Scheduler, its last change date (01/21/2018 7:28 AM), and its owner (Scheduler). The configuration is divided into three sections: 'TRIGGER' (Time), 'JOBS' (Report), and 'FILE SYSTEM' (File System). The 'Time' section shows the execution time as 'Once on Feb 5, 2018 at 9:55 PM' and the next execution as 'Feb 5, 2018 9:55 PM'. The 'Report' section shows the format as 'Adobe PDF', report files as 'repo\All_Alarms.rpt', and the title as 'All Alarms'. The 'File System' section shows the save path as 'Save created files in'. The interface includes navigation icons at the top and expand/collapse icons on the right side of the configuration sections.

Figure 136: -net 15.x Scheduler tasks migrated to i-net 17.x Task Planner

3.0 CHECKING IF I-NET 17 IS INSTALLED OR NOT

Run the following command with 'root' user, to check whether i-net 17.x is installed or not:

```
# rpm -qa|grep clear
```

If the output is like “clear-reports-server-17.1.209-1.noarch”, then it is installed, as shown below:

```
[root@e5ms69 datasource]# rpm -qa|grep clear  
clear-reports-server-17.1.209-1.noarch  
[root@e5ms69 datasource]#
```

Figure 137: Checking if i-net is installed or not

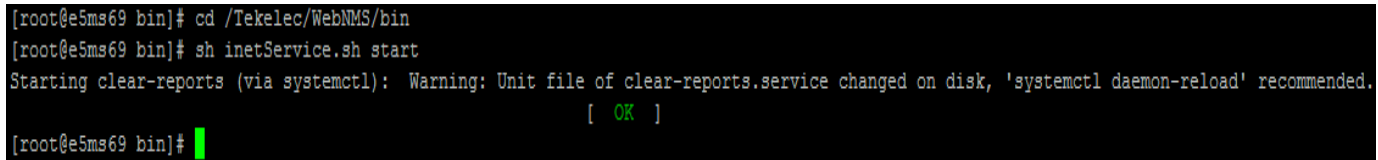
If the output is blank, then it is not installed.

4.0 STARTING THE I-NET 17 SERVICE

c) If i-net 17.x is installed with root user:

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh start” with the root user, to start the i-net service.

```
# cd /Tekelec/WebNMS/bin
# sh inetService.sh start
```



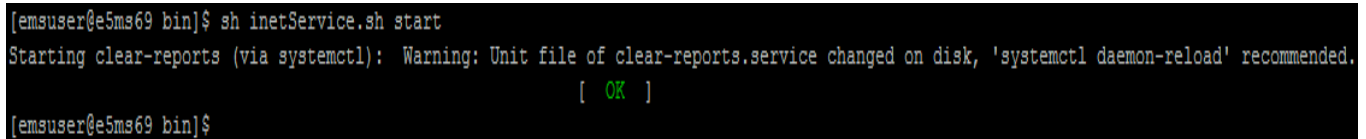
```
[root@e5ms69 bin]# cd /Tekelec/WebNMS/bin
[root@e5ms69 bin]# sh inetService.sh start
Starting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[root@e5ms69 bin]#
```

Figure 138: Starting the i-net Service with root user

b) If i-net 17.x installed with non-root user:

Move to the directory “/Tekelec/WebNMS/bin” and run the script “inetService.sh start” with the non-root user, to start the i-net service.

```
# cd /Tekelec/WebNMS/bin
# sh inetService.sh start
```



```
[emsuser@e5ms69 bin]$ sh inetService.sh start
Starting clear-reports (via systemctl): Warning: Unit file of clear-reports.service changed on disk, 'systemctl daemon-reload' recommended.
[ OK ]
[emsuser@e5ms69 bin]$
```

Figure 139: Starting the i-net Service with non-root user

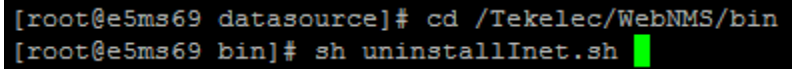
For restarting/stopping/checking status of i-net Service, run the same script as above replacing the argument “start” with “restart”, “stop”, “status” respectively.

5.0 UNINSTALLING I-NET 17

Go to “/Tekelec/WebNMS/bin” and run “uninstallInet.sh” with root user.

```
# cd /Tekelec/WebNMS/bin
```

```
# sh uninstallInet.sh
```



```
[root@e5ms69 datasource]# cd /Tekelec/WebNMS/bin
[root@e5ms69 bin]# sh uninstallInet.sh
```

Figure 140: Uninstalling i-net 17

Remove the configuration if it is required, if the configurations are not removed, it will be restored on re-installing i-net Clear Reports 17.x.

For removing the configuration follow the below steps:

- a. If i-net 17.x is installed with non-root user

Run the following commands with root user:

```
# rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/cc/Default/
# rm -rf /home/<non-root user>/.java/.userPrefs/com/inet/report/config/datasource/e5msdb/
# rm -rf /home/<non-root user>/.i-net\ software/reporting_User_Default/Users/*
```

- b. If i-net 17.x is installed with root user (only possible if upgraded from i-net 15.x)

Run the following commands with root user:

```
# rm -rf /root/.java/.userPrefs/com/inet/report/config/cc/Default/
# rm -rf /root/.java/.userPrefs/com/inet/report/config/ datasource/e5msdb/
# rm -rf /root/.i-net\ software/reporting_User_Default/Users/*
```


6.0 APPENDIX A: MY ORACLE SUPPORT



CAUTION: Use only the guide downloaded from the Oracle Technology Network (OTN) (<http://www.oracle.com/technetwork/indexes/documentation/oracle-comms-tekelec-2136003.html>).

Before upgrading your system, access the **My Oracle Support** web portal (<https://support.oracle.com>) and review any Knowledge Alerts that may be related to the System Health Check or the Upgrade.

Web portal (preferred option): My Oracle Support (MOS) (<https://support.oracle.com>)

Phone: Contact your local Oracle Global Customer Support Center (<http://www.oracle.com/support/contact.html>)

Make the following selections on the Support telephone menu:

1. Select '2' for New Service Request
2. Select '3' for Hardware, Networking and Solaris Operating System Support
3. Select '1' for Technical Issues and when talking to the agent, please indicate that you are an existing Tekelec customer