Extract from ARM User Guide
July, 2011

The IB-ARM Administrator Workbench

IB-ARM is designed to use separate workbenches for Analysts and for Administrators. This is due to the very different functions required by each user group.

The IB-ARM Administrator Workbench interface is easy to use web-based interface. It occupies a single window with two distinct areas, so navigation is straightforward and intuitive. To use a particular administrative function, select it from the Title Bar, and the details appear in the Data Content window.

The Administrator Workbench contains these features. It is documented in the IB-ARM Administrator Workbench User Guide.

- Refresh Management
- Source View Logging
- Site Configuration
- Site Management
- User Administration

Extracting Data for a Refresh

To run an IB-ARM Refresh, the data must first be extracted from its location on various source servers and version control systems (such as Subversion, CVS, Endevor). The extracts are usually automated jobs / scripts that are run on a specific schedule based on the production release schedule of the application(s) being refreshed.

The diagram below outlines the overall process beginning with extract jobs / scripts extracting source code from the Source Server(s).

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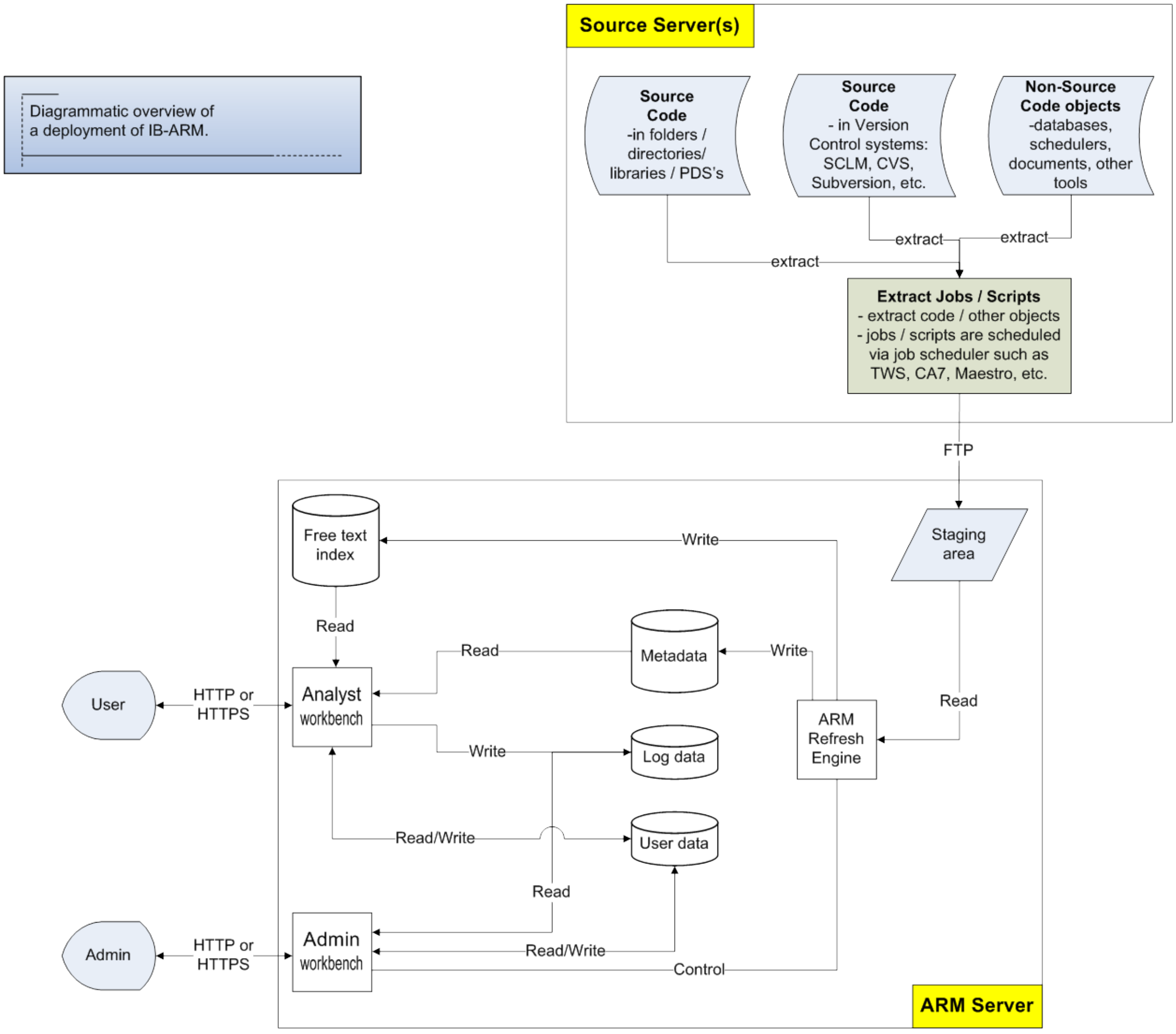

Diagrammatic overview of a deployment of IB-ARM.

Source Server(s)
Source Code -in folders / directories/ libraries / PDS's
Source Code - in Version Control systems: SCLM, CVS, Subversion, etc.
Non-Source Code objects -databases, schedulers, documents, other tools
extract
extract
extract
Extract Jobs / Scripts - extract code / other objects - jobs / scripts are scheduled via job scheduler such as TWS, CA7, Maestro, etc.
FTP
Staging area
Free text index
Write
Read
Metadata
Read
Write
Read
User
HTTP or HTTPS
Analyst workbench
ARM Refresh Engine
Write
Log data
Read/Write
User data
Read
Admin
HTTP or HTTPS
Admin workbench
Read/Write
Control
ARM Server

Version 4.4
March 2010

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Running a Refresh via the Administrator Workbench

This feature of the Admin Workbench allows the Administrator to run and publish a refresh of the IB-ARM Repository and Analyst Workbench site. This process is fully automated and the steps are described below.

The Refresh has a basic workflow as follows:

1. Select a Profile
2. Create and Configure a New Refresh
3. Run and monitor the Refresh
4. Publish the Refresh

1. Select a Profile

Select Refresh from the title bar and the Profiles page is displayed. Profiles are used to allow for multiple IB-ARM repositories within an organization. This may be useful if there are no overlaps or relationships between groupings of code. In this case, separate IB-ARM repositories would be used and these would be represented by separate profiles. In most cases, a single profile will be used for an IB-ARM installation.

Select a profile to proceed to the next step.

2. Create and Configure a New Refresh

When a Profile is selected, the Refresh Management page is displayed.

To initiate a new refresh, click on the New Refresh button. The user must enter the name of the new refresh. IB recommends using a date to clearly distinguish refreshes and their chronological occurrence.

Refresh – recommended process:

a) Create the New Refresh
b) Delete an old refresh. Usually the refresh prior to the current refresh should be removed. This will free up disk space by removing old logs.
c) Run New Refresh.

The Refresh Management page also allows a user to:

- Clean Refresh – this is used when a refresh has been cancelled or stopped for any reason. The refresh is retained but all logs and status information are cleared so the refresh can be re-started.
- Delete Refresh – this is used to remove a refresh. Clients may choose to keep multiple refreshes on their server and Delete older refreshes to free up disk space on the refresh server.

When a new Refresh is created, the Refresh Control processes for the refresh become available. These processes are circled in the screen image below.

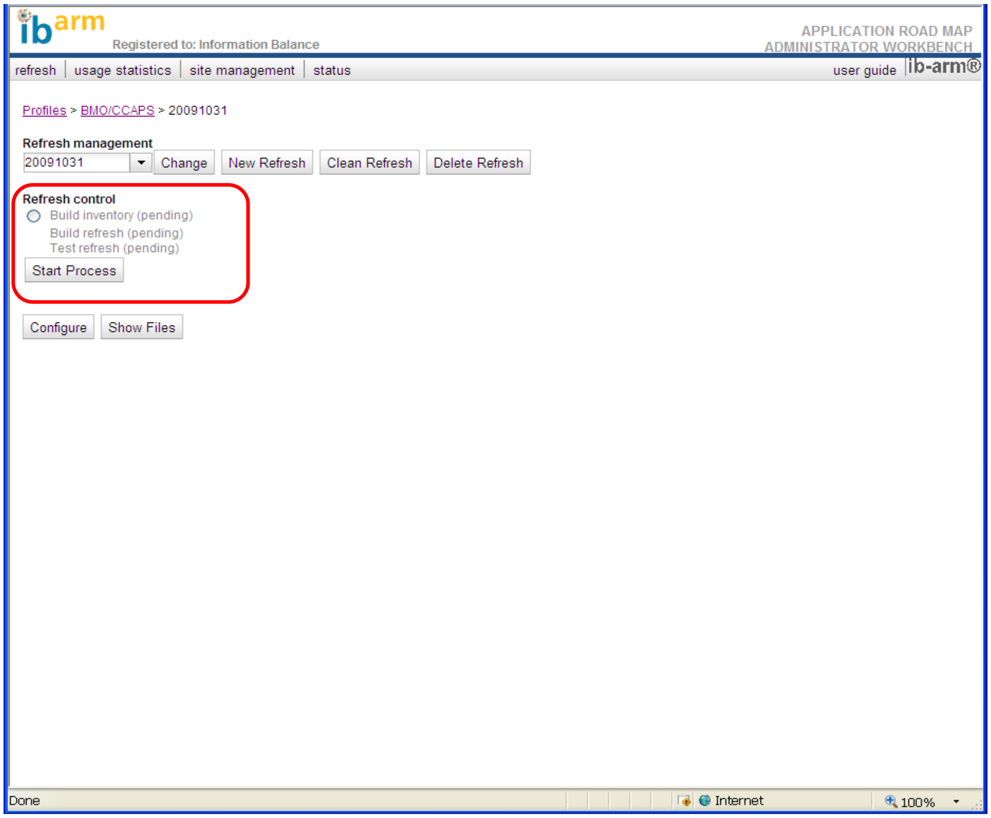

Figure 1: New Refresh with Refresh Control processes

3. Run and monitor the Refresh

The next step in the Refresh workflow is to run and monitor the Refresh control processes. To run a Refresh control process, click the radio button and then click the "Start Process" button.

Each Process has a Status:

- Pending – indicates the process has not yet run for this refresh.
- Active – indicates the process is currently running.
- Completed – indicates the process has successfully completed.
- Cancelled – indicates that the process was cancelled before successful completion.

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Refresh Processes

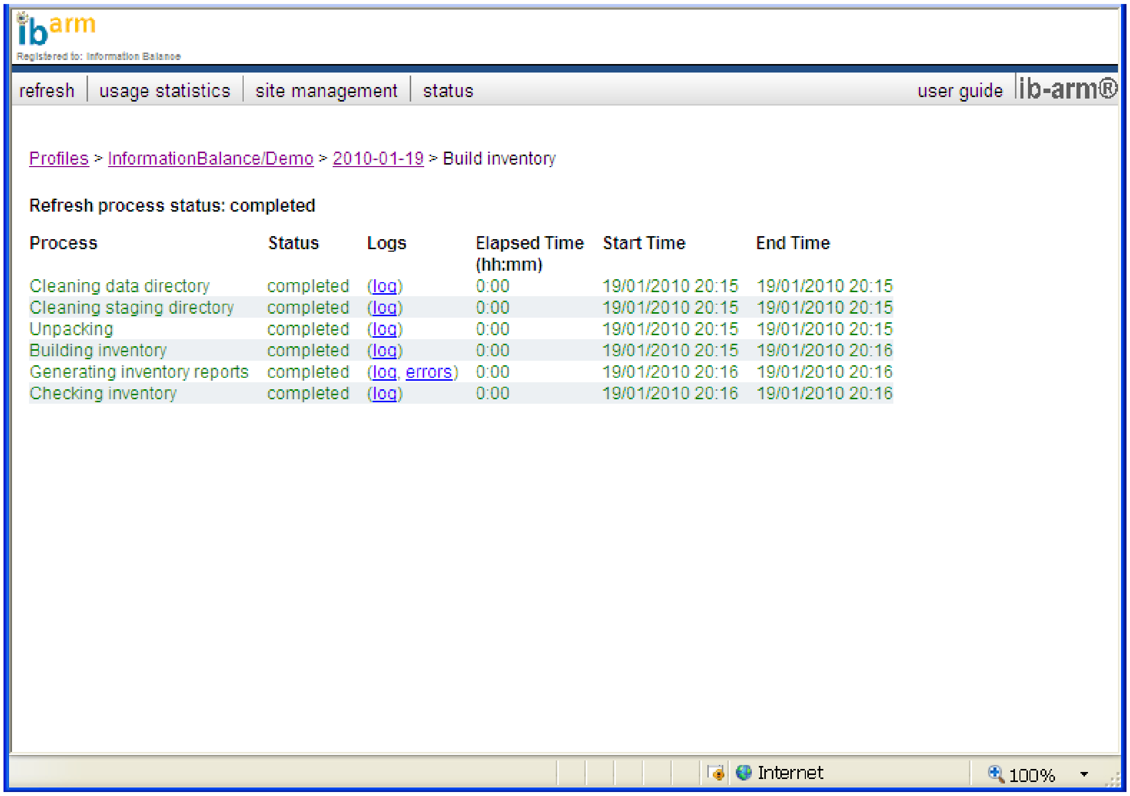
The Refresh processes are run in the following order:

a. Build Inventory

This process can be run as soon as the new refresh is created. It is the first step in the Refresh. It unpacks the files received for the Refresh, determines file types and then creates the Refresh Reports.

The Inventory should be validated by the Administrator before proceeding to the next process. This validation should be done as follows:

i) Check Logs - Click on the Build inventory link and then check the Logs. If there are no error logs shown, then the process has completed correctly.



Profiles > InformationBalance/Demo > 2010-01-19 > Build inventory

Refresh process status: completed

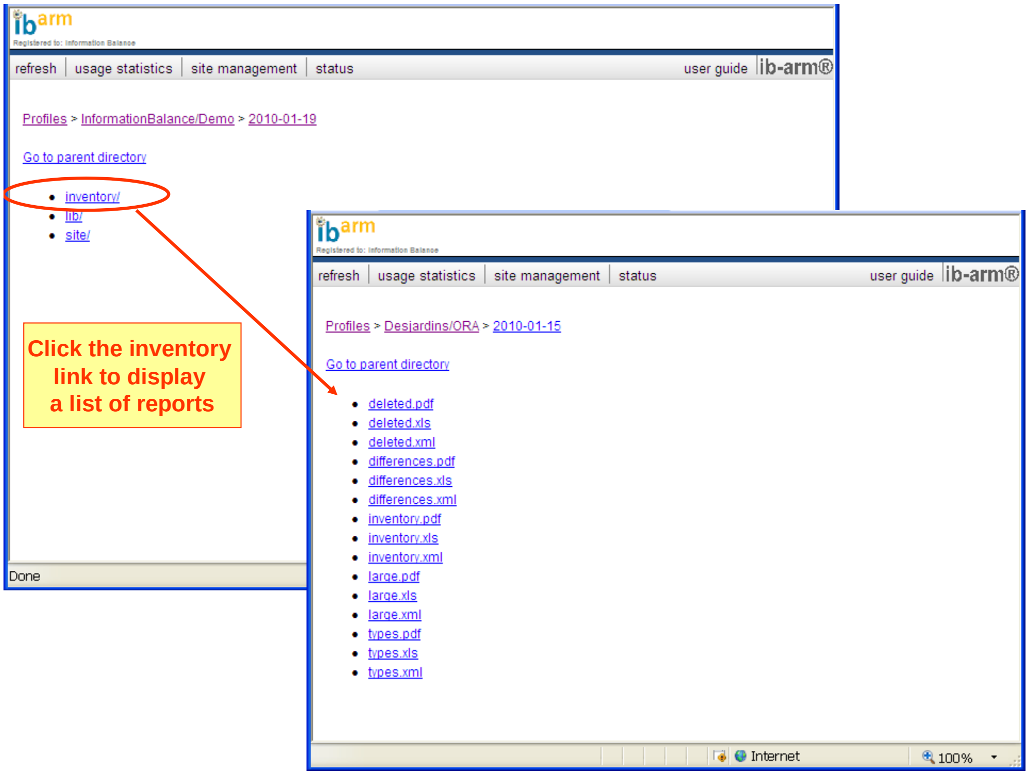
Process	Status	Logs	Elapsed Time (hh:mm)	Start Time	End Time
Cleaning data directory	completed	(log)	0:00	19/01/2010 20:15	19/01/2010 20:15
Cleaning staging directory	completed	(log)	0:00	19/01/2010 20:15	19/01/2010 20:15
Unpacking	completed	(log)	0:00	19/01/2010 20:15	19/01/2010 20:15
Building inventory	completed	(log)	0:00	19/01/2010 20:15	19/01/2010 20:16
Generating inventory reports	completed	(log, errors)	0:00	19/01/2010 20:16	19/01/2010 20:16
Checking inventory	completed	(log)	0:00	19/01/2010 20:16	19/01/2010 20:16

Figure 2 Check Build inventory logs

ii) Check the Inventory reports – from the Refresh management page, click the Show Files button, then on the following page click the inventory link to produce a list of reports. Reports are available in pdf, Excel (.xls) and xml format. The reports are:

- inventory – this is the primary inventory report containing all the Applications and component types contained in the refresh. The administrator should check that all applications are include and that the total lines of code look correct.
- differences – this report compares the current refresh to previous and show differences at the application and component type level.

- types – identifies files that had types which could not be recognised during the inventory process. You may want to configure IB-ARM to recognise some of these file types.
- deleted – optionally, a client may choose to remove files and not include them in the refresh process. These removed file are listed here.
- large – this report identifies files that are larger than 25,000 lines. The client may consider removed such large files from the refresh.


ibarm
Registered to: Information Balance
refresh | usage statistics | site management | status
user guide | ib-arm®
Done

Profiles > InformationBalance/Demo > 2010-01-19

Go to parent directory

- inventory/
- lib/
- site/

Click the inventory link to display a list of reports

ibarm
Registered to: Information Balance
refresh | usage statistics | site management | status
user guide | ib-arm®
Internet
100%

Profiles > Desjardins/ORA > 2010-01-15

Go to parent directory

- deleted.pdf
- deleted.xls
- deleted.xml
- differences.pdf
- differences.xls
- differences.xml
- inventory.pdf
- inventory.xls
- inventory.xml
- large.pdf
- large.xls
- large.xml
- types.pdf
- types.xls
- types.xml

Figure 3 Viewing Inventory reports

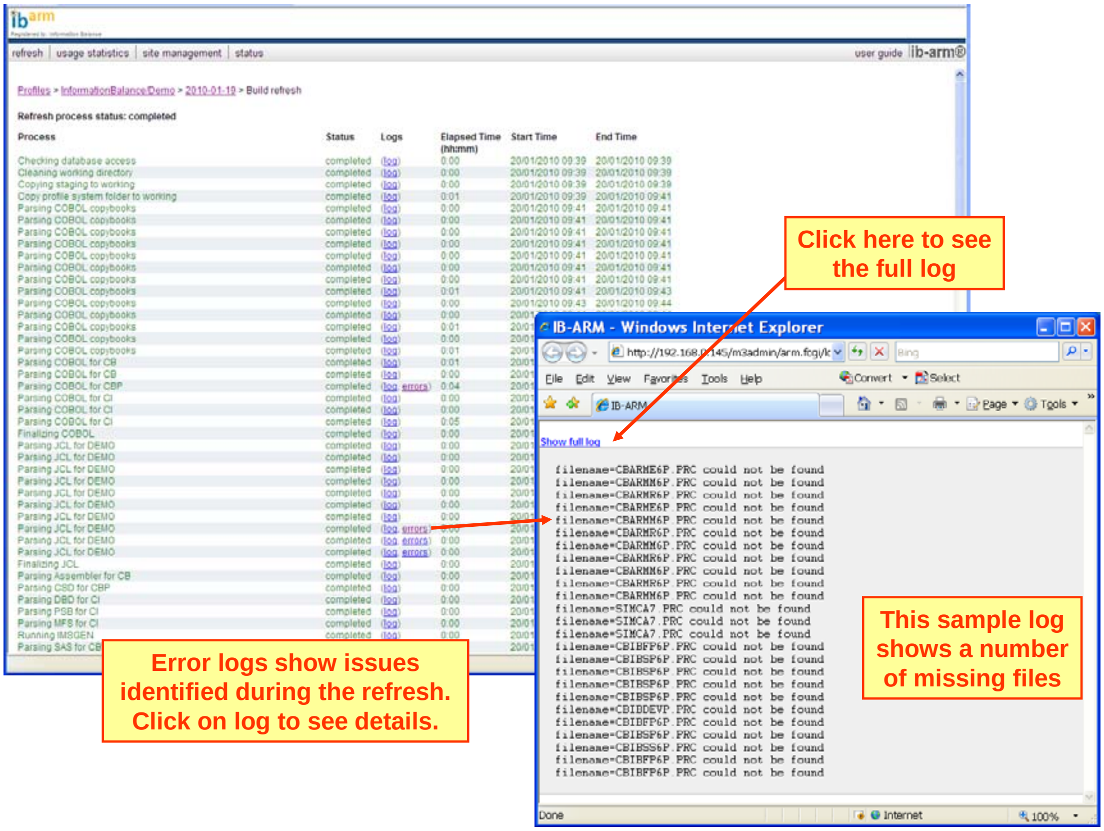
b. Build Refresh

This process becomes available when the Build Inventory process is marked 'Completed'. This process runs the source code parsers, loads the ARM repository database and creates the source search index.

The Build Refresh process should be validated by the Administrator before proceeding to the next process. This validation should be done as follows:

> Check Logs - Click on the Build refresh link and then check the Logs. If there are no error logs shown, then the process has completed correctly. When you open a Log or Error Log file, only the end of the log is displayed (the last 25 line approximately). To see the full log, click the "**Show full log**" link.

Even if there are errors, the Refresh may still be valid. Errors such as missing files can be corrected in subsequent refreshes by supplying IB-ARM with all required files. Check with your IB-ARM support if you have questions about specific error log messages.


ib arm
refresh | usage statistics | site management | status
user guide
ib-arm®
IB-ARM - Windows Internet Explorer
http://192.168.0.145/m3admin/arm.fcgi/k
Bing
File Edit View Favorites Tools Help
Convert Select
IB-ARM
Page Tools
Done
Internet
100%

Profiles > InformationBalance/Demo > 2010-01-19 > Build refresh

Refresh process status: completed

Process	Status	Logs	Elapsed Time (hh:mm)	Start Time	End Time
Checking database access	completed	(log)	0:00	20/01/2010 09:39	20/01/2010 09:39
Cleaning working directory	completed	(log)	0:00	20/01/2010 09:39	20/01/2010 09:39
Copying staging to working	completed	(log)	0:00	20/01/2010 09:39	20/01/2010 09:39
Copy profile system folder to working	completed	(log)	0:01	20/01/2010 09:39	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:41	20/01/2010 09:41
Parsing COBOL copybooks	completed	(log)	0:01	20/01/2010 09:41	20/01/2010 09:43
Parsing COBOL copybooks	completed	(log)	0:00	20/01/2010 09:43	20/01/2010 09:44
Parsing COBOL copybooks	completed	(log)	0:00	20/01	
Parsing COBOL copybooks	completed	(log)	0:01	20/01	
Parsing COBOL copybooks	completed	(log)	0:00	20/01	
Parsing COBOL copybooks	completed	(log)	0:01	20/01	
Parsing COBOL for CB	completed	(log)	0:01	20/01	
Parsing COBOL for CB	completed	(log)	0:00	20/01	
Parsing COBOL for CBP	completed	(log, errors)	0:04	20/01	
Parsing COBOL for CI	completed	(log)	0:00	20/01	
Parsing COBOL for CI	completed	(log)	0:00	20/01	
Parsing COBOL for CI	completed	(log)	0:05	20/01	
Finalizing COBOL	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log)	0:00	20/01	
Parsing JCL for DEMO	completed	(log, errors)	0:00	20/01	
Parsing JCL for DEMO	completed	(log, errors)	0:00	20/01	
Parsing JCL for DEMO	completed	(log, errors)	0:00	20/01	
Finalizing JCL	completed	(log)	0:00	20/01	
Parsing Assembler for CB	completed	(log)	0:00	20/01	
Parsing CSD for CBP	completed	(log)	0:00	20/01	
Parsing DBD for CI	completed	(log)	0:00	20/01	
Parsing PSB for CI	completed	(log)	0:00	20/01	
Parsing MFS for CI	completed	(log)	0:00	20/01	
Running IMSGEN	completed	(log)	0:00	20/01	
Parsing SAS for CB				20/01	

Show full log

```
filename=CBARME6P.PRC could not be found
filename=CBARMM6P.PRC could not be found
filename=CBARMR6P.PRC could not be found
filename=CBARME6P.PRC could not be found
filename=CBARMM6P.PRC could not be found
filename=CBARMR6P.PRC could not be found
filename=CBARMM6P.PRC could not be found
filename=CBARMR6P.PRC could not be found
filename=CBARMM6P.PRC could not be found
filename=CBARMR6P.PRC could not be found
filename=CBARMM6P.PRC could not be found
filename=SIMCA7.PRC could not be found
filename=SIMCA7.PRC could not be found
filename=SIMCA7.PRC could not be found
filename=CBIBFP6P.PRC could not be found
filename=CBIBSP6P.PRC could not be found
filename=CBIBSP6P.PRC could not be found
filename=CBIBSP6P.PRC could not be found
filename=CBIBSP6P.PRC could not be found
filename=CBIDDEVP.PRC could not be found
filename=CBIDFP6P.PRC could not be found
filename=CBIBSP6P.PRC could not be found
filename=CBIBSS6P.PRC could not be found
filename=CBIBFP6P.PRC could not be found
filename=CBIBFP6P.PRC could not be found
```

Click here to see the full log

This sample log shows a number of missing files

Error logs show issues identified during the refresh. Click on log to see details.

Figure 4 Checking error logs

When the Build Refresh process is ‘Completed’, the site can be Published.

c. Test Refresh

This process is optional and is used to run tests on the refresh prior to publishing the site.

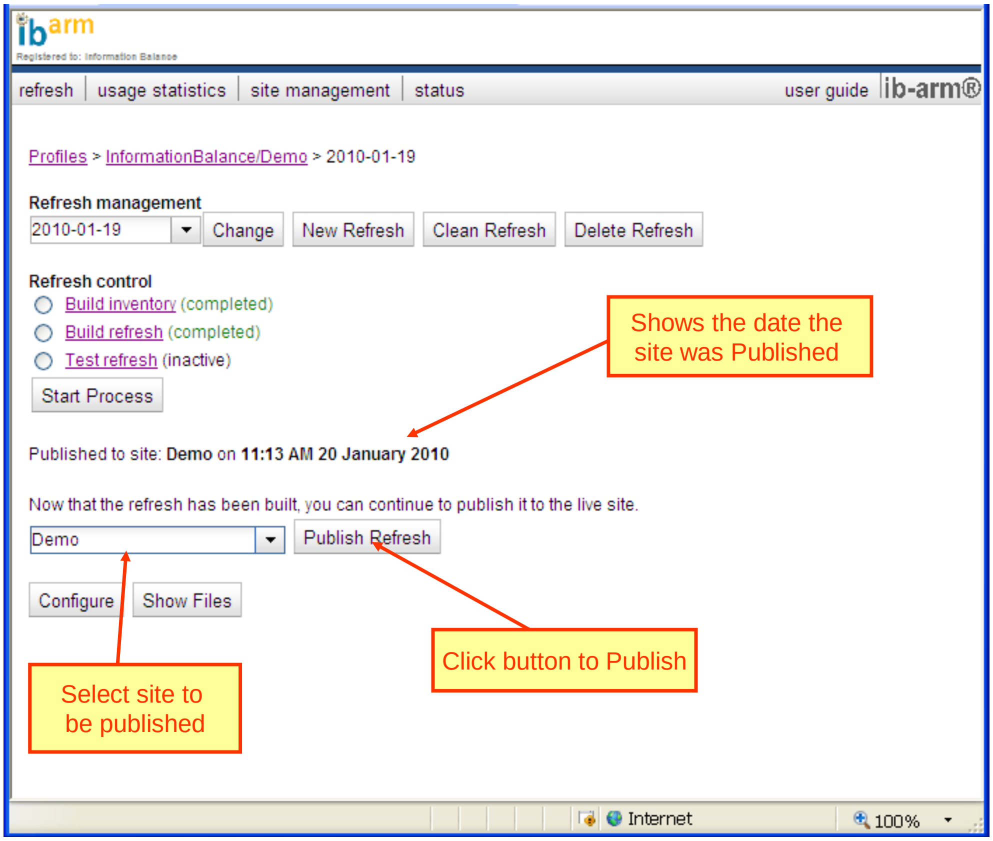
4. Publish the Refresh

The Publish step of the Refresh workflow allows the completed Refresh to be published to the Analyst Workbench site.

When the Refresh has completed, the “Publish Refresh” button becomes available. See screen image below. By clicking this button, the Analyst Workbench is instantly updated to use the new Refresh.

Publish – recommended process:

a) Publish new refresh to the Test site.
b) Verify that the new site looks correct by running a set of tests on the Test site.
c) If OK, Publish new refresh to Production site. This overlays the current Production site.
d) If an error is detected after Publishing the site, then re-Publish the previous Refresh. This requires the following steps:
   - Go to the Refresh management page and select the previous Refresh.
   - Click the Publish Refresh button to re-publish the previous refresh.



Profiles > InformationBalance/Demo > 2010-01-19

Refresh management

2010-01-19

Refresh control

○ Build inventory (completed)
○ Build refresh (completed)
○ Test refresh (inactive)

Published to site: **Demo** on **11:13 AM 20 January 2010**

Now that the refresh has been built, you can continue to publish it to the live site.

Demo

Shows the date the site was Published

Click button to Publish

Select site to be published

Figure 5: Publish Refresh function of Refresh Management