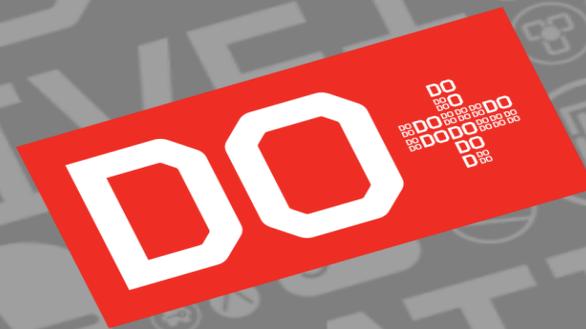
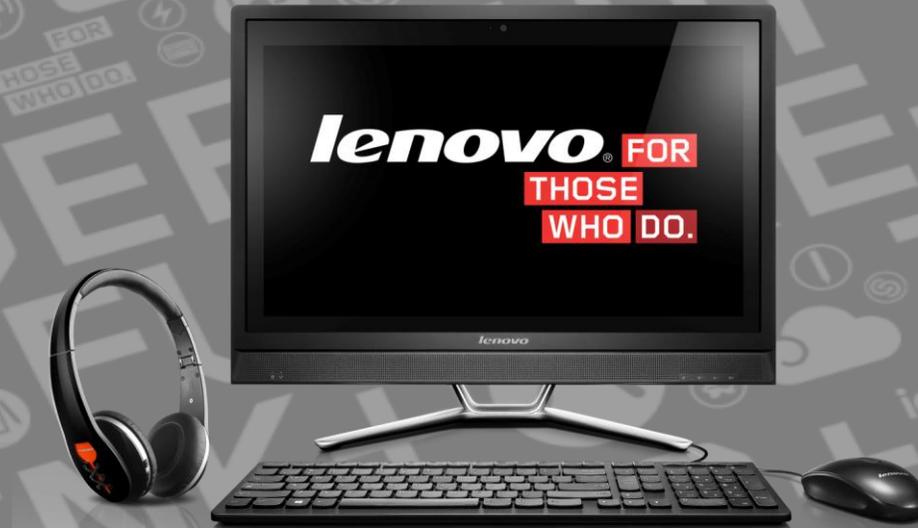


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THOSE WHO DO.™

Update picture with
course product picture
(Optional) or Delete

EBG Server Education - LXCA User Interface

Jeff Van Heuklon | RAS architect – 4/15/15



Overview for xHMC UI charts

■ Architecture of the xHMC User Interface

- Web Application
- REST API Driven
- Architecture Concepts
- Dynamic and Static Data
- Browsers and Tablets

■ Content Overview

- Initial Setup
- Menu, Pods, Dashboard
- Resource Uis
- Jobs

■ Possible Issues & Triage

- Potential problems
- Logging location
- Browser debugging

Architecture of xClarity Administrator User Interface

▪ Web Application

- Typical web application.
- Browser connects to server via ip or host name using https protocol
 - Http results in server not found
- Client requests and loads our html, css and scripts that drive the Web App UI.
- Each page has unique URL and is bookmarkable
- Browser back & forward buttons generally work as expected to navigate to/from content pages of the app.

▪ REST API driven

- All live content comes from REST API interfaces. (ie. List of servers, network setting values, etc...
 - This retrieval occurs after all the application and page scripts are loaded.
 - Usually will see a “loading...” icon or text on the screen while data may be getting fetched.
 - Note: All pages even on a busy system should load within a few seconds. Failure to load promptly could indicate a problem
- The UI usually renders the data its given very faithfully. If data values looks wrong or are missing in the UI, it very often (but not always) means the data we're given from the REST API is also wrong.

Architecture of xClarity Administrator User Interface

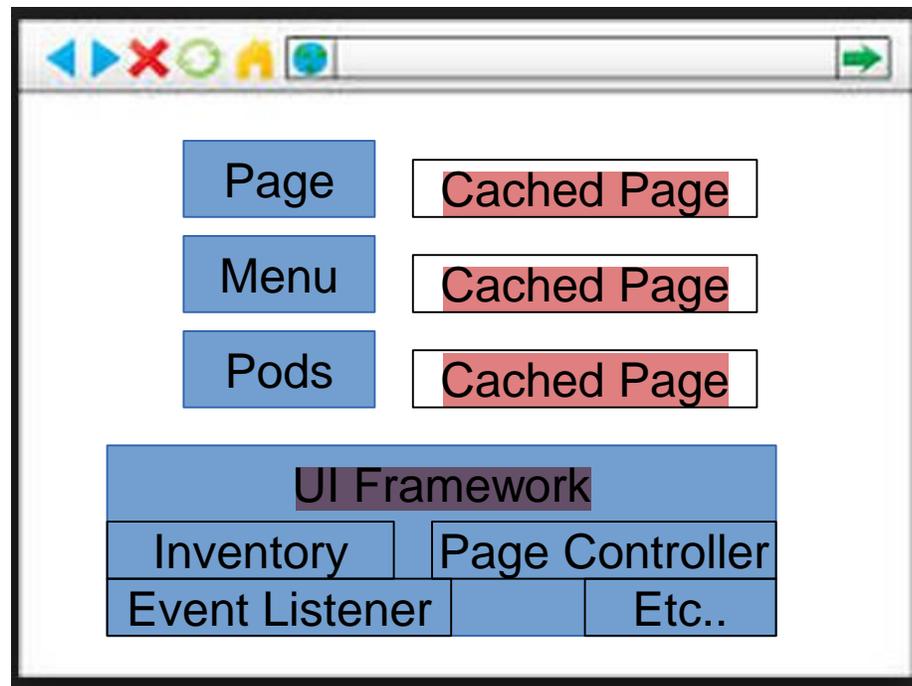
■ User Interface Underpinnings – aka **GUI Framework**

Architecturally, this is the invisible chunk of code running in the browser that is responsible for loading and managing active visible content.

Each content section (aka widget) behaves relatively independently, interacting only with framework.

Contains background code like event monitors, and client side inventory data storage and caching.

Xclarity
Appliance



Architecture of xClarity Administrator User Interface

■ User Interface Content

- Common top level elements like the top menu, and stats / jobs pods, pages and dialogs
- Each Content sections is loaded by the framework, then either destroyed or cached with the user is no longer viewing that “page”
 - Some pages are cached which will provide instant load when going back to that page.
 - Others are not, which will cause the page to load normally, re-rendering and fetch data anew.

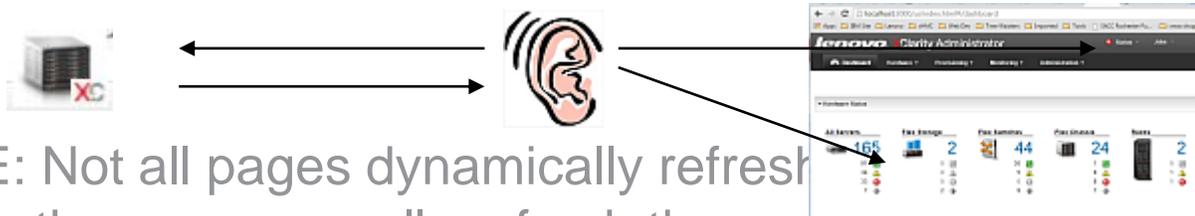
Architecture of xClarity Administrator User Interface

Eventing notifications

The UI framework and server have a mechanism such that our web sessions “listen” for notifications to tell us if page content changes.

When a change is detected all listening pages get notified

If a widget on screen gets notified, it takes action and refreshes.



NOTE: Not all pages dynamically refresh. For some pages, some pages are forced to require the user manually refresh the content. (ie: events & jobs)

On these pages, you will see a refresh Icon:

Browser & Tablets:

Support major browsers, firefox, ie, chrome (FF23+, IE9+, Chrome, Safari)

Using our UI through a touch interface (ie. Tablets and touchscreens) is supported.

Content Overview: Initial Setup

- Login and Initial setup pages allow user to select
- language
- Content sections get unlocked as user completes
- steps
- NOTE: After create user step, the user is logged in
 - If the user walks away or restarts browser, they will
 - be redirected to login again before proceeding through
 - the rest of the steps

lenovo. XClarity Administrator

Initial Setup

Language: English US

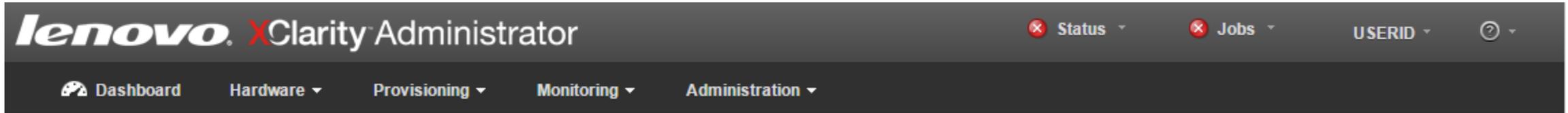
-  * Read and Accept Lenovo® XClarity Administrator License Agreement
-  * Create User Account
-  * Configure Network Access
Configure IP settings for management and data network access.
-  * Configure Date and Time Preferences
Set local date and time or use an external Network Time Protocol (NTP) server.
-  Configure Additional Security Settings
Jump to the Security page to change the defaults for certificates, user groups, and the LDAP client.
-  Start Managing Systems
Jump to the Discover and Manage New Devices page where you can select systems to manage.

Content Overview: Menu & Pods

- Menu provides quick navigation to functions and important information

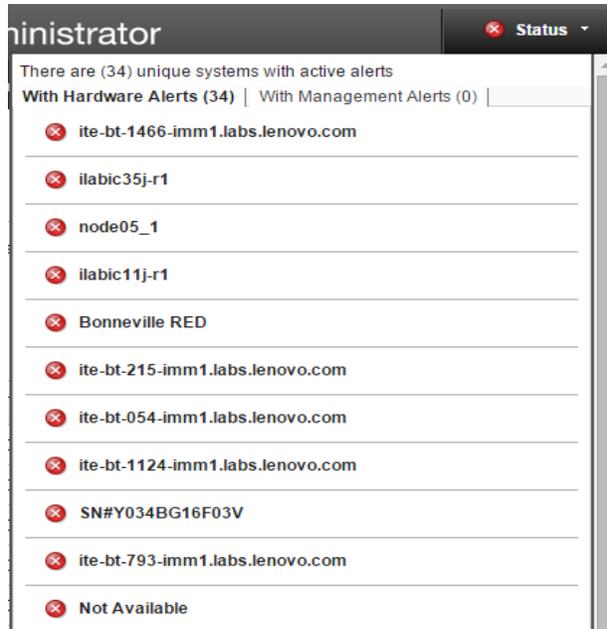
- Note that system status and present job status is represented at a glance in the menu bar. Shown regardless of content panel shown.

- User can quickly and easily expand the status list and active and recent jobs.



Content Overview: Menu → Status

- Drill into to status to get at a glance **problem information**.

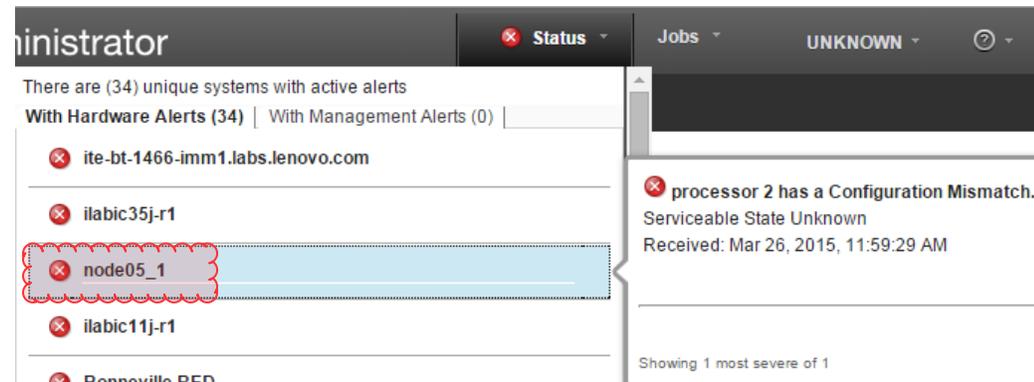


Administrator ✖ Status

There are (34) unique systems with active alerts

With Hardware Alerts (34) | With Management Alerts (0)

- ✖ ite-bt-1466-imm1.labs.lenovo.com
- ✖ ilabic35j-r1
- ✖ node05_1
- ✖ ilabic11j-r1
- ✖ Bonneville RED
- ✖ ite-bt-215-imm1.labs.lenovo.com
- ✖ ite-bt-054-imm1.labs.lenovo.com
- ✖ ite-bt-1124-imm1.labs.lenovo.com
- ✖ SN#Y034BG16F03V
- ✖ ite-bt-793-imm1.labs.lenovo.com
- ✖ Not Available



Administrator ✖ Status Jobs UNKNOWN ?

There are (34) unique systems with active alerts

With Hardware Alerts (34) | With Management Alerts (0)

- ✖ ite-bt-1466-imm1.labs.lenovo.com
- ✖ ilabic35j-r1
- ✖ node05_1
- ✖ ilabic11j-r1
- ✖ Bonneville RED

processor 2 has a Configuration Mismatch.
Serviceable State Unknown
Received: Mar 26, 2015, 11:59:29 AM

Showing 1 most severe of 1

Content Overview: Menu → Jobs

- Expand jobs to see current and recent job activity

- Clicking a job will open Job details with complete job information
- Also note quick link to all jobs from the pod

The screenshot displays the 'Jobs' section of the XClarity Administrator. The main window shows a list of jobs with columns for job name and end time. A red dashed box highlights the 'Jobs' menu item in the top navigation bar. A red dashed box also highlights the 'View All Jobs' link at the bottom of the job list. A red dashed box highlights the job 'Bulk Management job 778' in the list. A red dashed box highlights the same job in the detailed view below. The detailed view shows the job name, status ('Stopped with errors'), progress (100%), and creator ('JVD'). To the right, a modal window displays the job details, including a summary section with fields for Name, Time Started, Overall Status, Target, and Created By. Below the summary is a 'Target Results' section and a 'Log' section with a table of timestamps and messages. A 'Close' button is located at the bottom right of the modal window.

Timestamp	Message
April 10, 2015 at 22:03:38	The Download Update Package IDs:
April 10, 2015 at 22:03:38	qlgc-Invgy_fw_nic_2.4.3b_linux_32-64: error

Content Overview: Dashboard

- Dashboard is the default **xHMC** page
 - Functions as a quick summary of all systems and activity
 - All sections on this page have quick links to dive quickly to associated content
 - Clicking server section to see all servers
- Contains Overview for:
 - All hardware
 - Config patterns
 - OS Deployment
 - Firmware updates
 - Jobs
 - Active sessions

The screenshot displays the Lenovo XClarity Administrator interface. At the top, the navigation bar includes the logo, 'XClarity Administrator', and user information (STATUS, JOBS, USERID). Below the navigation bar, the dashboard is organized into several sections:

- Hardware Status:** This section provides a high-level overview of system health. It includes five sub-sections: All Servers (265 total, with 185 green, 38 yellow, and 42 red status indicators), Flex Storage (3 total, with 3 green, 0 yellow, and 0 red), Flex Switches (69 total, with 57 green, 12 yellow, and 0 red), Flex Chassis (28 total, with 3 green, 4 yellow, and 21 red), and Racks (6 total, with 5 green, 0 yellow, and 1 red).
- Provisioning Status:** This section tracks deployment progress. It includes: Configuration Patterns (0 Servers with Profiles, 232 Servers without Profiles, 0 Server Pattern Deploys in Progress), Operating System Images (1 Available OS Images, 0 Image Deploys in Progress), and Firmware Updates (67 Devices Compliant, 13 Devices Non-compliant, 187 Compliance Policy Not Set, 0 Updates in Progress).
- Lenovo® XClarity Administrator Activity:** This section shows active jobs and sessions. It includes: Jobs (0 Active Jobs) and Active Sessions (a table listing UserIDs and IP addresses).

UserID	IP Address
JVD	10.42.100.133
USERID	10.42.101.15
USERID	10.38.98.60

Content Overview: Resource Views

- **Straightforward view** (typical of other views)

- Note actions change for IO modules, Chassis, and other hardware types

- **Clicking name** will take you to **details**

- **Toolbar actions** include (from left to right):

- **Export content to csv file**
- **Customize visible columns**
- **Launch remote control**
- **Power on / off / restart**
- **Exclude events (for selection)**
- **Unmanage rack server (rack server only)**
- **All actions (all the above and more)**
- **Filter list by chassis or rack**
- **Text matching filter (all table columns)**

- **Click the node** name to dive into details

- **Jobs**
- **Active sessions**

Server	Status	Power	IP Addresses	Rack Name/Unit	Chassis/B	Product Name	Type-Model	Firmw (UEFI)
node02	Normal	Unknown	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	7863-10X	B2E14
node03	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	7863-10X	B2E14
xlabmn094.labs.lenovo.com	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	7863-10X	B2E14
xlabmn096.labs.lenovo.com	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	7863-10X	B2E14
xlabmn097.labs.lenovo.com	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	7863-10X	B2E14
BBY-01	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
BBY-02	Normal	Unknown	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
BBY-03	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
BBY-05	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
BBY-04	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
BBY-06	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
xlabmn103.labs.lenovo.com	Normal	Off	10.241...	Rack 2 / ...	xlab-Purefle	IBM Flex System x240 Compute Node	8737-AC1	B2E14
rpx-xinyi.labs.lenovo.com	Normal	Off	10.241...	Unassign...		IBM System x3650 M5	5462-25Z	TCE10
Web Server 1	Warning	Off	10.240...	Unassign...	SN#Y034B...	IBM Flex System C4240 M4 Compute Node	8737-AC1	B2E14
ite-bt-098-imm1.labs.lenovo.com	Warning	Off	10.240...	Unassign...	SN#Y034B...	IBM Flex System C4240 M4 Compute Node	8737-AC1	B2E14
ite-bt-113-imm1.labs.lenovo.com	Warning	Off	10.240...	Unassign...	SN#Y034B...	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
ite-bt-132-imm1.labs.lenovo.com	Normal	Off	10.240...	Unassign...	SN#Y034B...	IBM Flex System x240 Compute Node with ...	8737-AC1	B2E14
Blacktip	Normal	Off	10.243...	Unassign...	SN#Y010B...	IBM Flex System x240 Compute Node with ...	7162-AC1	A3E10

Content Overview: Resource Views → Graphical Chassis

- Reached by selecting from **Chassis list view**
- **Graphical view** toolbar allows different
- **graphical overlays**
 - Node status
 - LED states
 - Property values
 - Compliance status
 - Configuration patterns
 - Note: Tooltips change to reflect current overlay content
- Note quick links to details and available
- actions

The screenshot displays the Lenovo XClarity Administrator interface. At the top, the navigation menu includes Dashboard, Hardware, Provisioning, Monitoring, and Administration. The main content area shows the 'Chassis' view for a server rack with SN#Y031BG23200B. The 'Graphic view' button is highlighted with a red dashed box. Below the chassis view, a 'Summary' table provides details for the selected node (node12_2). A 'Details' button is also highlighted with a red dashed box. The 'All Actions' dropdown menu is visible on the right.

Summary	
Name:	node12_2
Status:	■ Normal
Chassis/Bay:	SN#Y031BG23200B / 7:2
Host names (IMM):	IMM2-3440b5ee13c0
Architecture:	x86
Serial number:	SLOT012
Type-Model:	7916-99X
System FRU:	00D4868

Content Overview: Resource Views → Details

- Contains full list of available node information
 - Where customers will likely start triage for hardware issues.
- Every **detail xHMC** collects on nodes can be found within
- **Multiple content sections available**
 - **Summary**: top level details
 - **Inventory details**: details on network, processors, memory, firmware, etc...
 - **Alerts**: affecting this node
 - **Event log**: affecting this node
 - **Jobs**: targetting this node
 - **Lightpath**: full LED details
 - **Power and Thermal**: details and historical graphs
 - **Configuration** (config patterns)
 - **Feature on demand keys**

The screenshot displays the Lenovo XClarity Administrator interface. The top navigation bar includes 'Dashboard', 'Hardware', 'Provisioning', 'Monitoring', and 'Administration'. The main content area is titled 'Chassis > xlab-Pureflex > xlabmn094.labs.lenovo.com - Summary'. A sidebar on the left shows a list of sections: General, Summary, Inventory Details, Status and Health, Alerts, Event Log, Jobs, Light Path, Power and Thermal, Configuration, and Feature on Demand Keys. The main panel shows a table of node details and an 'Installed Devices' table.

Property	Value
Compute node:	xlabmn094.labs.lenovo.com
Status:	Normal
Chassis / bay:	xlab-Pureflex / Bay 4
Host names(IMM):	IMM2-3440b5bf2515
IP addresses(IMM):	10.241.139.104 fe80:0:0:3640:b5ff:feb2514
Device name:	xlabmn094.labs.lenovo.com
Type Model:	7863-10X
Serial number:	102330B
Architecture:	x86
Description:	
Product name:	IBM Flex System x240 Compute Node with embedded 10Gb Virtual Fabric
UEFI firmware:	B2E146HUS / 1.60 (Apr 2, 2015, 11:00:00 PM)
Configuration status:	No profile assigned
Server pattern:	
Fabric virtualization:	Not configured
Failover monitoring:	Not started

	Installed Devices	Empty Bays
Processors	2.6 GHz - 8 Processor Cores 2.6 GHz - 8 Processor Cores	0
Memory	(16) 8 GB	8
Drives	2	6
Expansion cards	(1) IBM Flex System FC3172 2-port 8Gb FC Adapter	1

Content Overview: Jobs

- Menu → Monitoring → Jobs
- Most activities that you initiate are tracked as jobs
- All jobs do run even if the UI that initiated them is no longer up
- The jobs pod and this view can be referenced for status on active or recent jobs
- You can expand jobs for more details
- Note: This page is not auto-refreshed.

lenovo XClarity Administrator

Dashboard Hardware Provisioning Monitoring Administration

Jobs

Jobs are longer running tasks performed against one or more target systems. After selecting a job, you can choose to cancel it, delete it, or obtain details about it.

All Actions

Show: [Icons] All Job Types Filter

Job	Status	Start	Complete	Targets	Job Type	Created By
Auto Update Problem Nu	Complete	February 28, 2015 at 12:44:20	February 28, 2015 at 12:44:23		Custom	SYSTEMGR_XIOFBLL0
Bulk Management job 47	Stopped With Error	February 28, 2015 at 12:42:50	February 28, 2015 at 12:51:12		Management	SYSTEMGR_XIOFBLL0
Bulk Management job 35	Stopped With Error	February 28, 2015 at 12:36:42	February 28, 2015 at 12:55:58		Management	SYSTEMGR_XIOFBLL0
Generate FFDC	Complete	February 28, 2015 at 12:31:03	February 28, 2015 at 12:31:51		Custom	USERID
null	Interrupted	February 28, 2015 at 12:02:13			Custom	SYSTEMGR_PRTT9PDD
Bulk Management job 16	Stopped With Error	February 28, 2015 at 11:23:52	February 28, 2015 at 11:26:44		Management	SYSTEMGR_PBLSDV6W
Manage job for 74c89	Stopped With Error			Not Available		
Starting	Complete					
Network choice	Complete					
Descriptor	Complete					
Login	Complete					
Duplicate check	Stopped With Error					
Inventory	Stopped With Error					
Configuration	Stopped With Error					
Manage job for 9f451	Complete			Not Available		
Manage job for 2d16b44	Stopped With Error	February 28, 2015 at 11:22:56	February 28, 2015 at 11:24:02	Not Available	Management	SYSTEMGR_PBLSDV6W
Auto Update Problem Nu	Complete	February 28, 2015 at 11:17:19	February 28, 2015 at 11:17:22		Custom	SYSTEMGR_PBLSDV6W
Bulk Management job 13	Stopped With Error	February 28, 2015 at 11:04:13	February 28, 2015 at 11:05:15		Management	SYSTEMGR_PBLSDV6W

Content Overview: Jobs Details

- Clicking a job from the jobs view or pod will open its details
- Note something like the bulk management job will list its results per target.
- At the bottom of the dialog is the log for the job.
- This panel refreshes regularly to update with latest job progress

t one or more target systems. After selecting a job, you can choose to cancel it, delete it, or obtain details about it.

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▼ Summary:	
Name:	Bulk Management job 355
Time Started:	February 28, 2015 at 12:36:42
Overall Status:	✖ Stopped With Error
Target:	
Created By:	SYSMGR_XIOFBLL0

▼ Target Results: With Errors: 13 Running: 0 Completed: 9	
Target	Message
Not Available	Manage job for 0e7d8e1cdf7d11d4abb0d5d5d5313131
Not Available	Manage job for 78b0aa8cf77c11e39ea58b8b8b5757
Not Available	Manage job for

Close

Possible Issues

■ Unresponsive UI

- Session ends in odd way may break the redirect to login
- Unknown issue causing UI to hang
- SOLUTION: Refresh the browser page (F5, depending on the platform and browser)
- SOLUTION +1: Clear browser cache and refresh the browser page

■ BTW: For **any** odd UI issue, its always worth trying to refresh the browser to see if that resolves issue

■ And if that fails, clear cache and refresh browser

■ If a page should fail to load or produce an error message when loading...

- Sometimes navigating to node details will produce failure if the node no longer exists
 - Loaded from bookmark? Node just removed from inventory ...?
- Other failures would require logs and additional details
- Some page load failures could be an exception caught when the page loads (again shouldn't occur... would need additional logs)

Console FFDC data

Console log/FFDC data from user's browsers is periodically uploaded to the LXCA server

A couple times per minute, and at error time

This can be seen in the WebLog.txt file in the Appender folder of the FFDC .zip file

File Name	Size	Last Modified
LDAP.txt	201 KB	Fri May 23 14:45:...
WebLog.txt	211 KB	Fri May 23 14:45:...
Servlets.txt	219 KB	Fri May 23 14:45:...
DCS.txt	156 KB	Fri May 23 14:45:...
Inventory.txt	259 KB	Fri May 23 14:45:...
FlexCat.txt	400 KB	Fri May 23 14:45:...
Services.txt	159 KB	Fri May 23 14:45:...
Server.txt	3 KB	Fri May 23 14:45:...

Log File	Log time	Thread caller	Log type	Log message
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531157 DataReader...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531157 DataReader...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531157 key found in in...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531157 key found in in...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531158 DataReader...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531158 DataReader...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531158 key not found...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531158 key not found...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531159 Adding data...
WebLog.txt	Thu May 22 18:32:11 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801531159 Adding data...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532358 Entering: di...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532358 Entering: di...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532358 dijit_Contai...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532358 dijit_Contai...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532367 Entering: a...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532367 Entering: a...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532371 Exiting: aug...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532371 Exiting: aug...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532371 Exiting: dijit...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532371 Exiting: dijit...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532377 taskObject ...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532377 taskObject ...
WebLog.txt	Thu May 22 18:32:12 CDT 2014	[-1114695875@qtp-1136789200-6]	DEBUG	com.ibm.ofm.server.servlets.logging.LoggingConsoleServlethandlePost 1400801532377 Exiting: M...

Console FFDC data - continued

- It's worth noting the **weblog file** contains **all logging input** from all **UI sessions**. So there could be crosstalk.
- Also, as stated previously, there are cases where **some logging** or important information just doesn't make its way back to this log file
 - **Network hiccups**
 - **Exceptions** that **kill the client script execution thread**.

UI Triage: UI Logging (in browser)

- One **unique feature** of the user interface, is that **every user** (and you) **has access to debugging tools** build into most browsers

IE (F12 -> **dev tools**), Chrome (**More tools** -> **dev tools**), Firefox (**developer** → **Web console**)

- Our logging interface logs to BOTH to the browsers console log and back to the server **weblog.txt**

- Note: Due to the way client code works,
- sometimes the browser logging will
- contain more information.

Some UI failures can prevent logging from being sent to server weblog

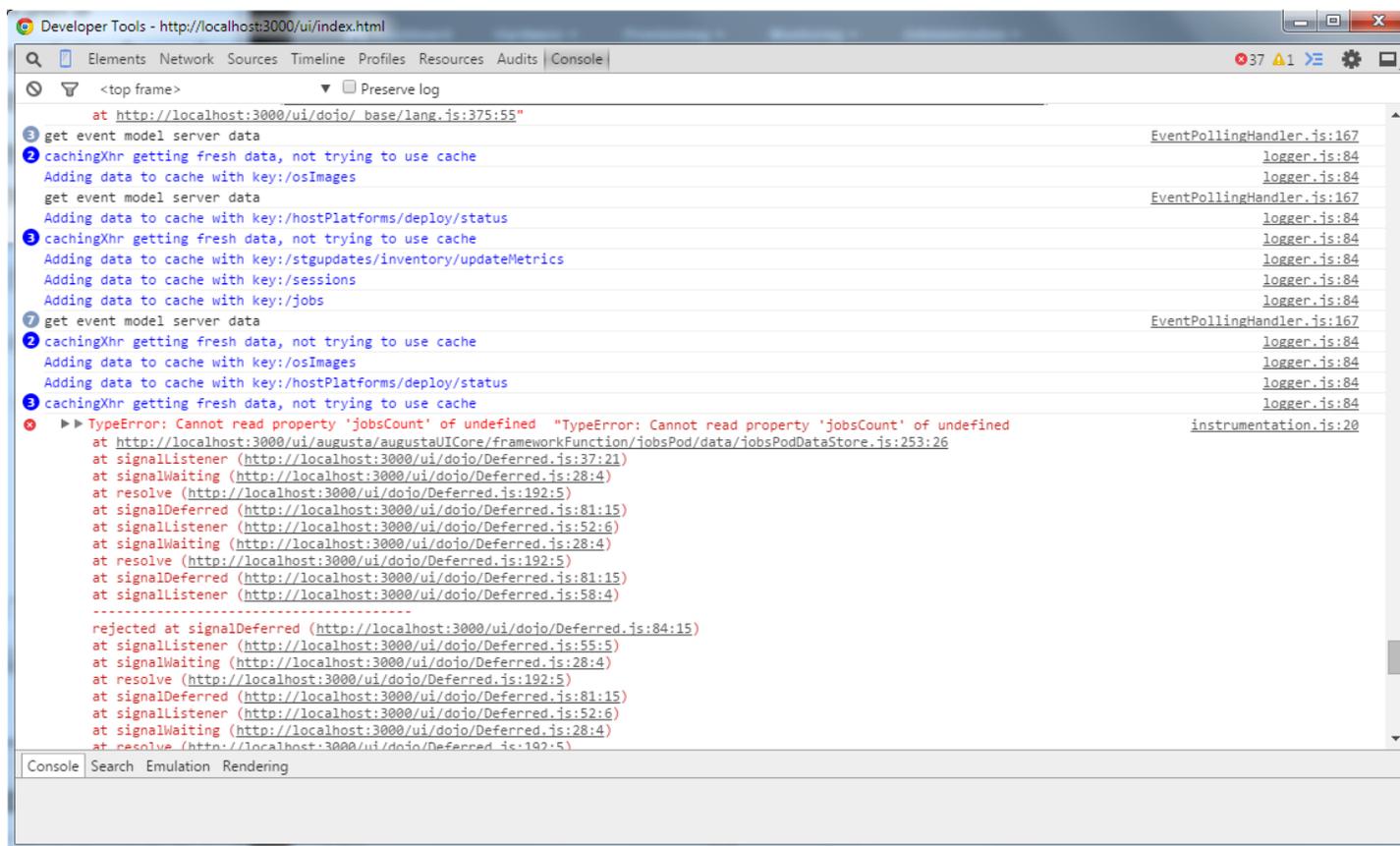
Browser also has exception stacks

Line of code failing

Easier to read

So, are times when having access to browser log is more helpful

When reproducing issues in house, worth having dev tools open



The screenshot shows a browser's developer console with the following log entries:

```
at http://localhost:3000/ui/dojo/ base/lang.js:375:55
get event model server data EventPollingHandler.js:167
cachingXhr getting fresh data, not trying to use cache logger.js:84
Adding data to cache with key:/osImages logger.js:84
get event model server data EventPollingHandler.js:167
Adding data to cache with key:/hostPlatforms/deploy/status logger.js:84
cachingXhr getting fresh data, not trying to use cache logger.js:84
Adding data to cache with key:/stgupdates/inventory/updateMetrics logger.js:84
Adding data to cache with key:/sessions logger.js:84
Adding data to cache with key:/jobs logger.js:84
get event model server data EventPollingHandler.js:167
cachingXhr getting fresh data, not trying to use cache logger.js:84
Adding data to cache with key:/osImages logger.js:84
Adding data to cache with key:/hostPlatforms/deploy/status logger.js:84
cachingXhr getting fresh data, not trying to use cache logger.js:84
TypeError: Cannot read property 'jobsCount' of undefined "TypeError: Cannot read property 'jobsCount' of undefined instrumentation.js:20
at http://localhost:3000/ui/augusta/augustaUICore/frameworkFunction/jobsPod/data/jobsPodDataStore.js:253:26
at signalListener (http://localhost:3000/ui/dojo/Deferred.js:37:21)
at signalWaiting (http://localhost:3000/ui/dojo/Deferred.js:28:4)
at resolve (http://localhost:3000/ui/dojo/Deferred.js:192:5)
at signalDeferred (http://localhost:3000/ui/dojo/Deferred.js:81:15)
at signalListener (http://localhost:3000/ui/dojo/Deferred.js:52:6)
at signalWaiting (http://localhost:3000/ui/dojo/Deferred.js:28:4)
at resolve (http://localhost:3000/ui/dojo/Deferred.js:192:5)
at signalDeferred (http://localhost:3000/ui/dojo/Deferred.js:81:15)
at signalListener (http://localhost:3000/ui/dojo/Deferred.js:58:4)
.....
rejected at signalDeferred (http://localhost:3000/ui/dojo/Deferred.js:84:15)
at signalListener (http://localhost:3000/ui/dojo/Deferred.js:55:5)
at signalWaiting (http://localhost:3000/ui/dojo/Deferred.js:28:4)
at resolve (http://localhost:3000/ui/dojo/Deferred.js:192:5)
at signalDeferred (http://localhost:3000/ui/dojo/Deferred.js:81:15)
at signalListener (http://localhost:3000/ui/dojo/Deferred.js:52:6)
at signalWaiting (http://localhost:3000/ui/dojo/Deferred.js:28:4)
at resolve (http://localhost:3000/ui/dojo/Deferred.js:192:5)
```

UI Triage: More on browser tools

- When re-creating possible UI issues in house, suggested to utilize the dev tools available in the browser.
 - Look for exception in the console log (usually red text).
 - This usually indicates the UI code failed somehow.
- It's also possible to leverage browser network monitoring to capture REST API traffic to inspect data actually sent to the UI.
 - Particularly useful when determining if an issue is because of 'bad' data sent to the UI
- Screenshots are also very useful for triage for any UI type issue.

THANK YOU GRACIAS OBRIGADO
MERCI DANKE GRAZIAS 謝謝 СПАСИБО
DANK TAKK BEDANKT DAKUJEM