REPLAY SOLUTIONS
accelerating you to market

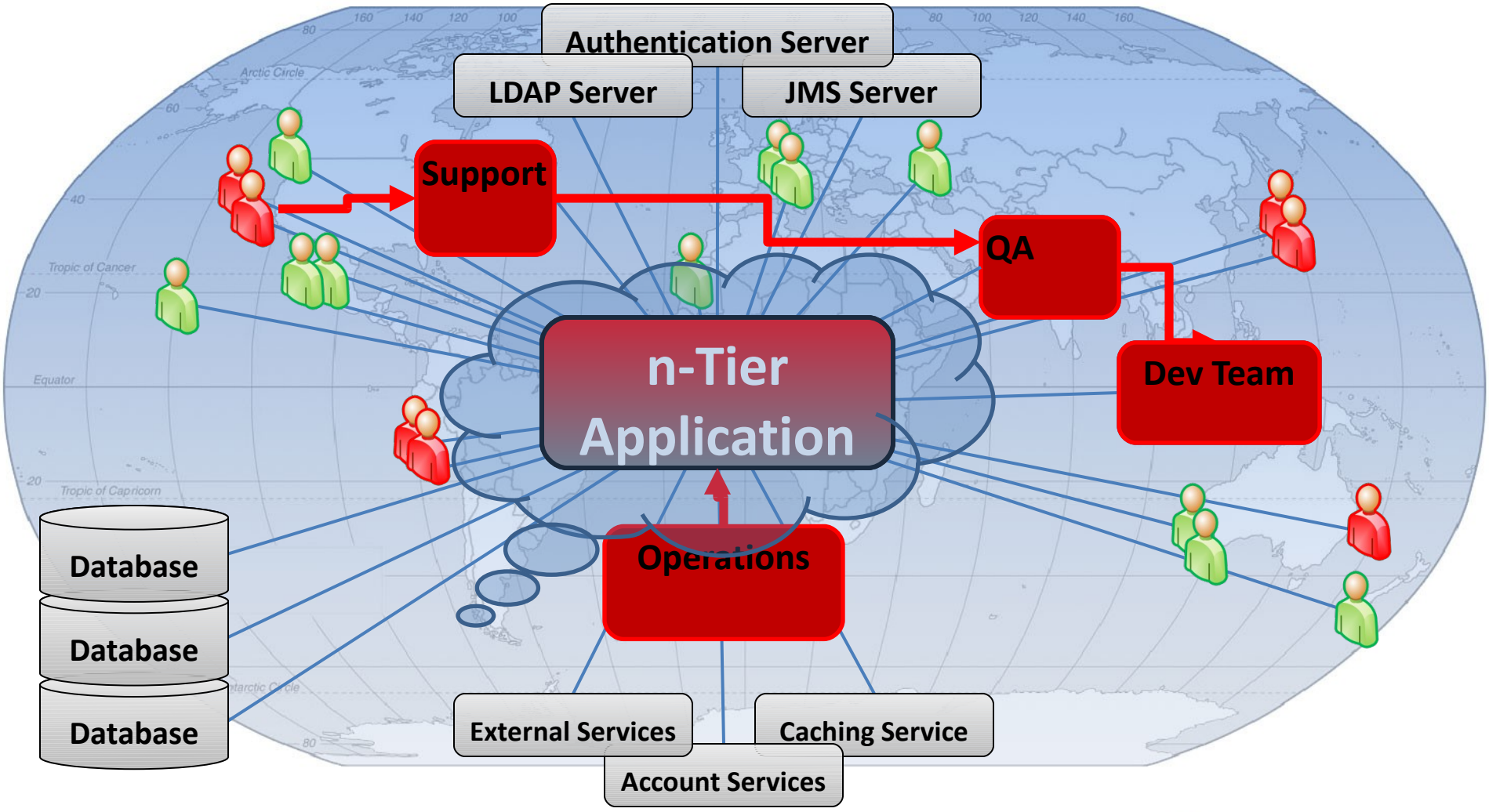
# Stop Wasting Time on Bugs!

**New Eclipse Record/Replay Plug-in**

Jeff Daudel, CTO, Replay Solutions

eclipse FOUNDATION MEMBER

# Issues take time to reproduce and fix…

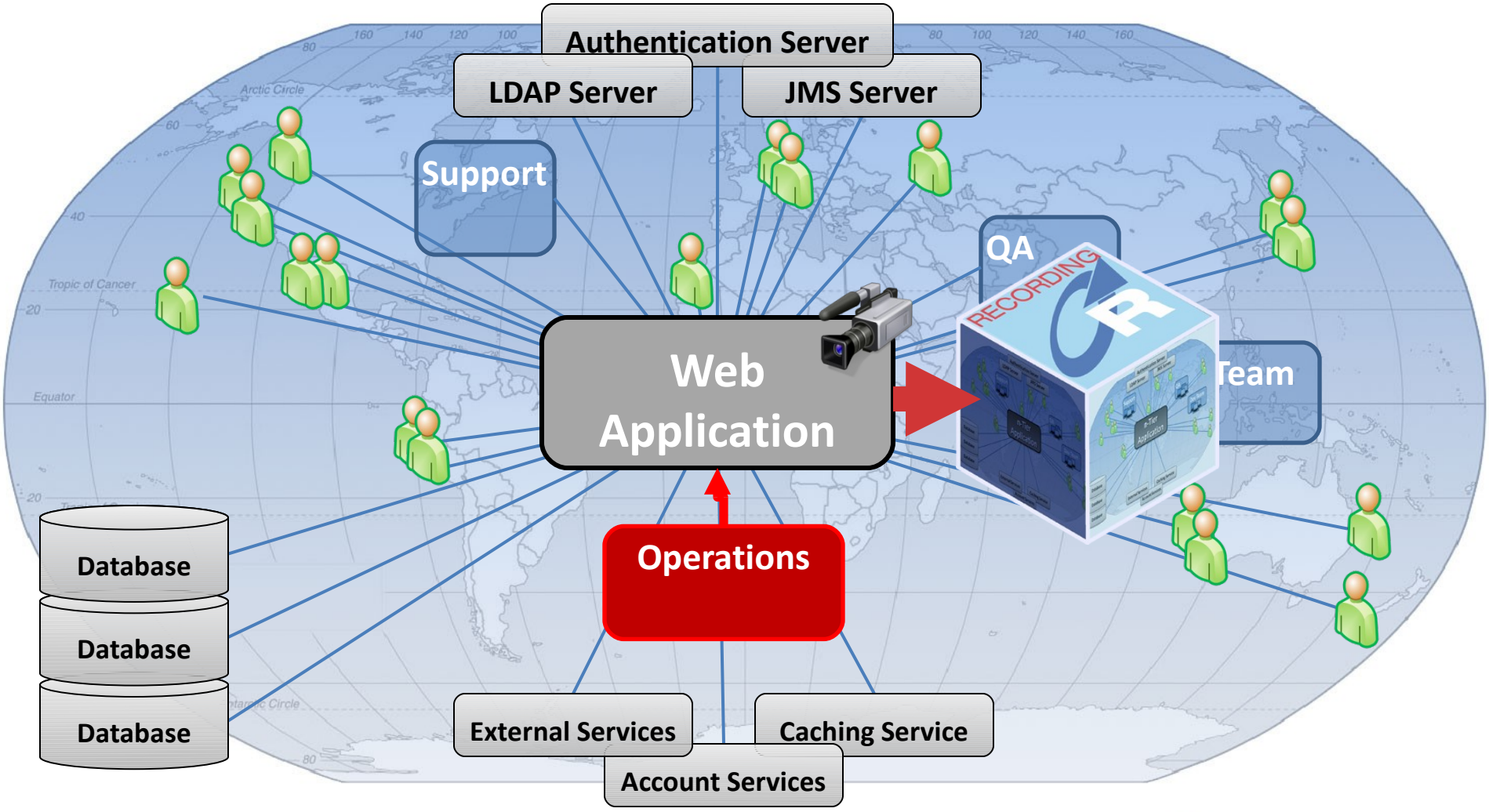





Free Whitepaper - http://bit.ly/replay_wp

REPLAY SOLUTIONS

# ReplayDIRECTOR Records Everything



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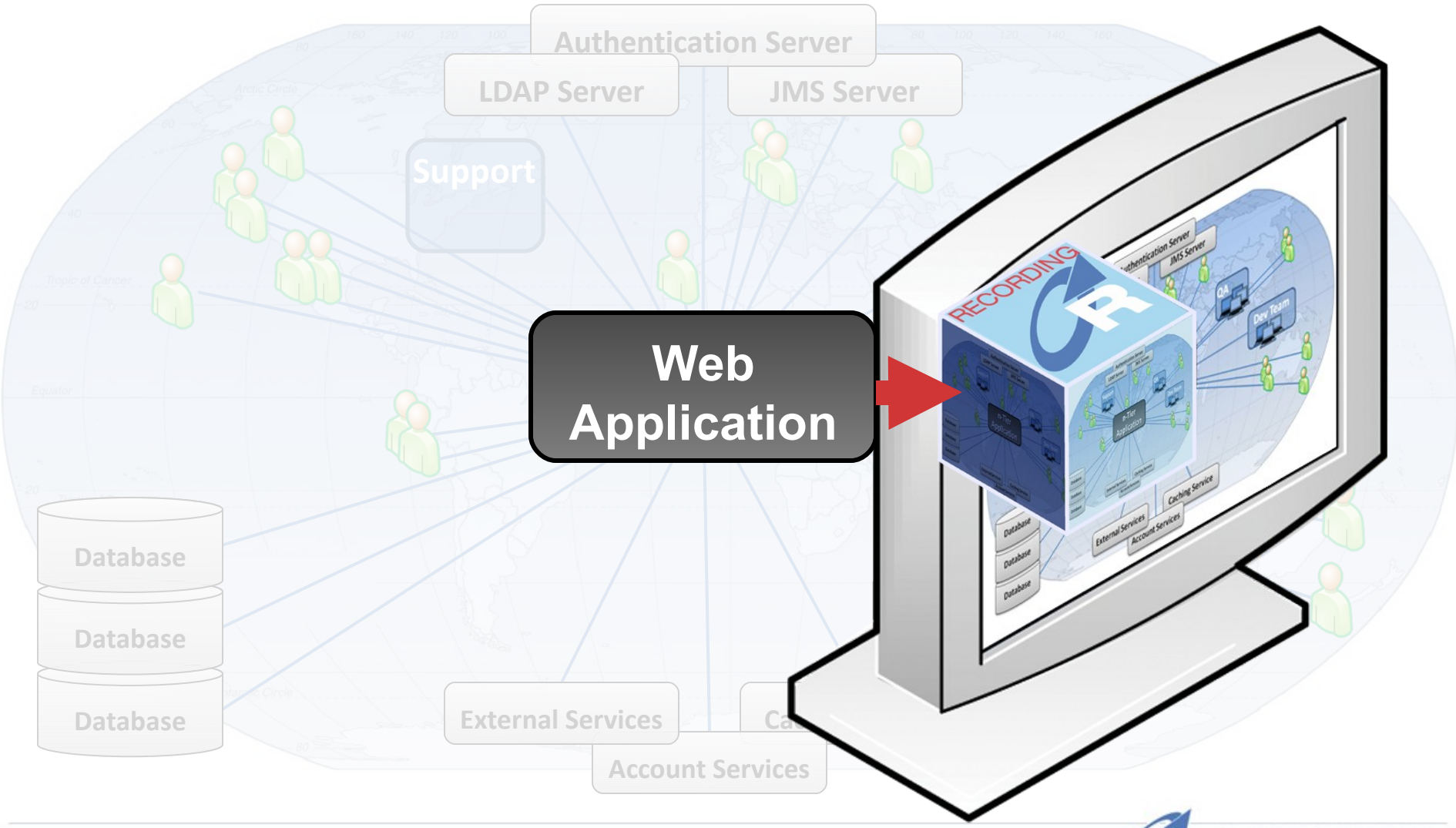
# Allows you to Replay on a Single Workstation

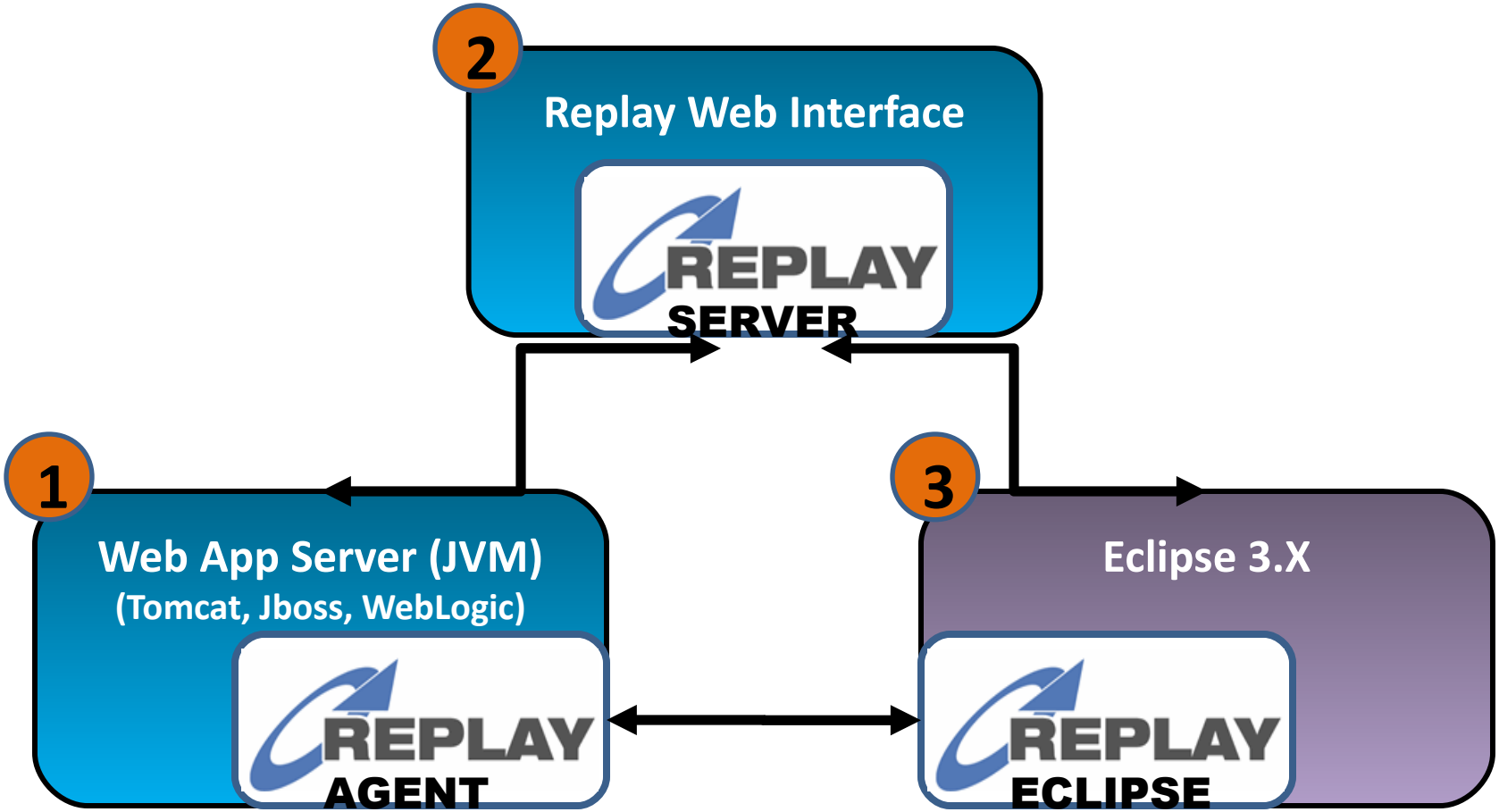




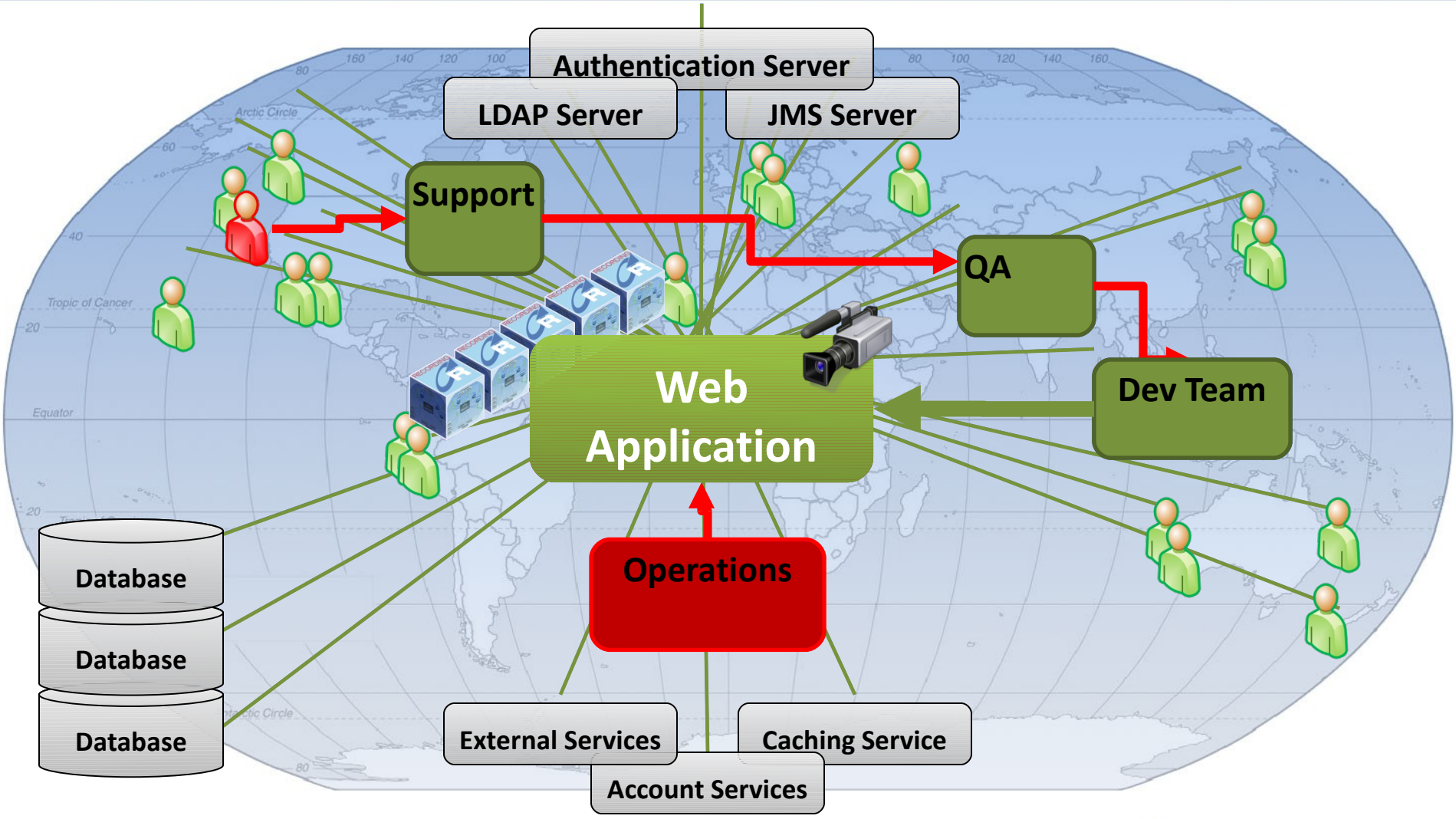

Free Whitepaper - http://bit.ly/replay_wp

REPLAY SOLUTIONS

# ReplayDIRECTOR Architecture



# Resolve Issues in Half The Time



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# Logging levels often too limited.

**Web Application Server**

| Logging Levels |
| --- |
| FATAL |
| ERROR |
| WARN |
| INFO |
| DEBUG |

**FATAL**: [06/Apr/2010 02:31:28] IP address 77.123.79.148 found in DNS blacklist
**FATAL**: [06/Apr/2010 02:31:34] IP address 95.180.18.77 found in DNS blacklist SORBS
**ERROR**: [06/Apr/2010 02:31:35] IP address 87.116.205.175 found in DNS blacklist SORBS DNSBL, mail from …

?

**Critical Data Not Captured!**



REPLAY SOLUTIONS

# Go Back in Time… Retrieve Critical Data

**Web Application Server**

| Logging Levels |
| --- |
| FATAL |
| ERROR |

**FATAL**: [06/Apr/2010 02:31:28] IP address 77.123.79.148 found in DNS blacklist
**FATAL**: [06/Apr/2010 02:31:34] IP address 95.180.18.77 found in DNS blacklist SORBS
**ERROR**: [06/Apr/2010 02:31:35] IP address 87.116.205.175 found in DNS blacklist SORBS DNSBL, mail from …

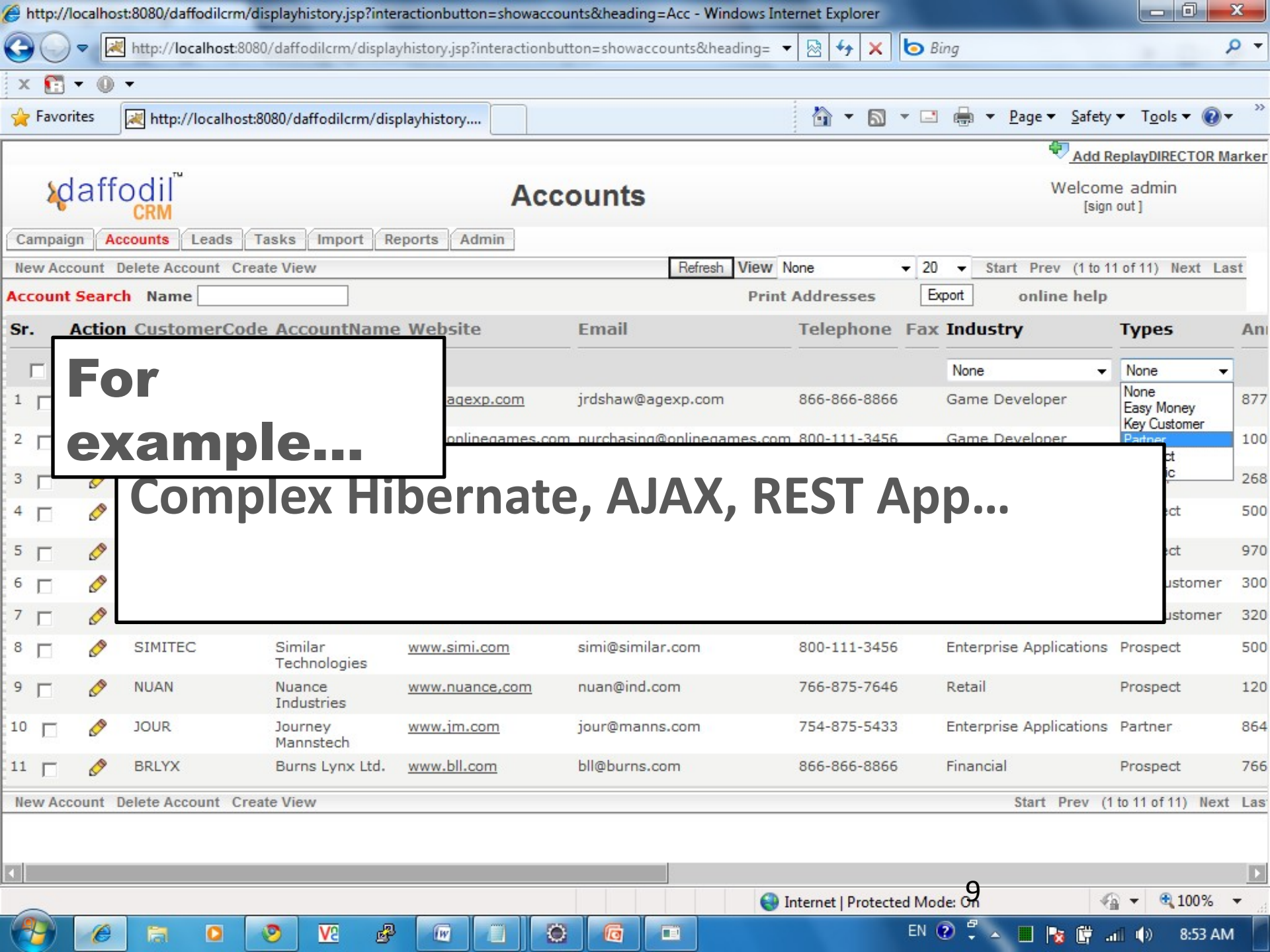
| |
| --- |
| WARN |
| INFO |
| DEBUG |

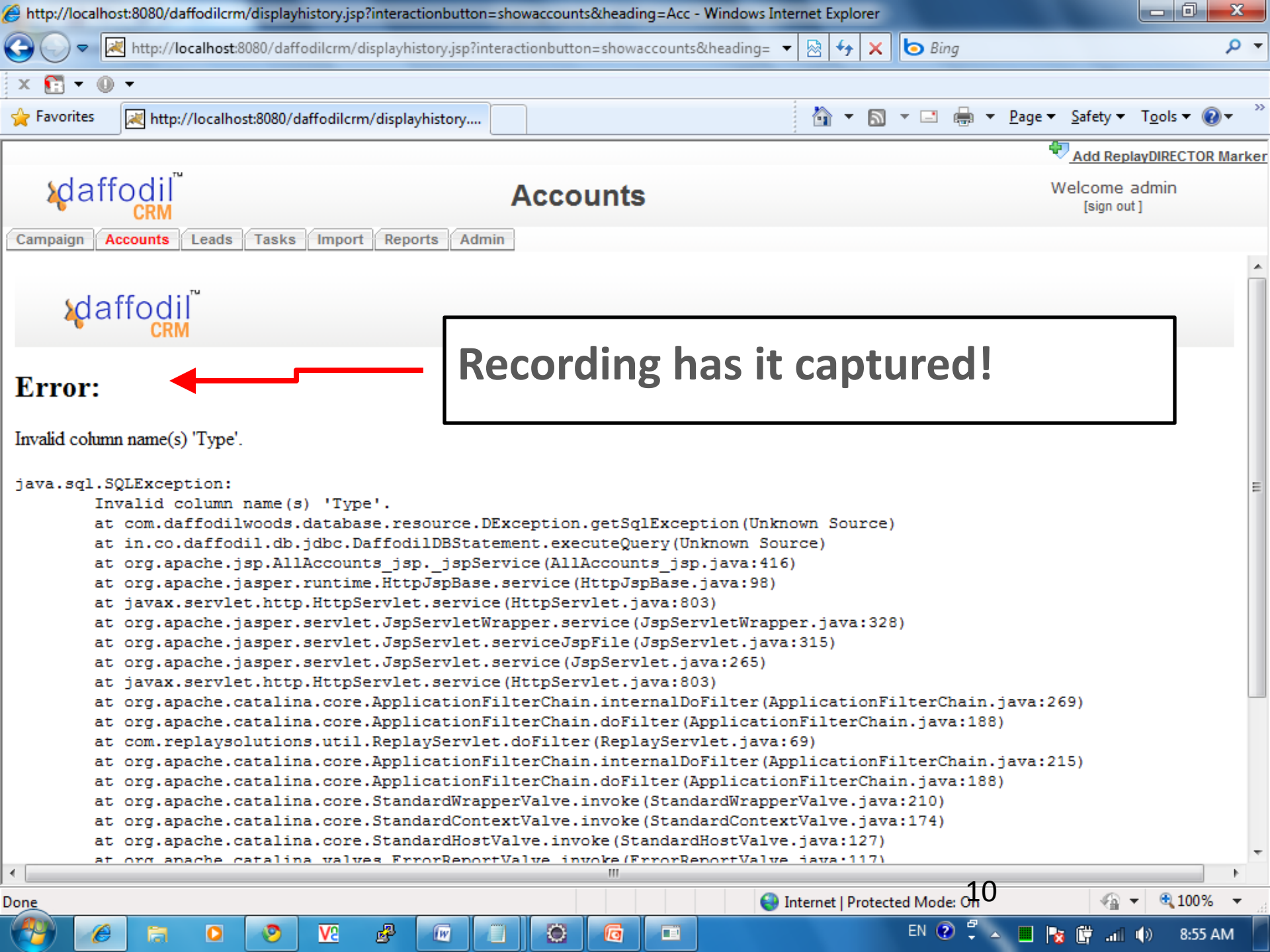
**WARNING**: [06/Apr/2010 02:31:28] IP address 77.123.79.148 found in DNS
**WARNING**: [06/Apr/2010 02:31:34] IP address 95.180.18.77 found in DNS
**INFO**: [06/Apr/2010 02:31:35] IP address 87.116.205.175 found in DNS blacklist
**DEBUG**: SORBS DNSBL, mail from [06/Apr/2010 02:32:57] IP address
**DEBUG**: SORBS DNSBL, mail from [06/Apr/2010 02:32:57] IP address 74.77.70.88

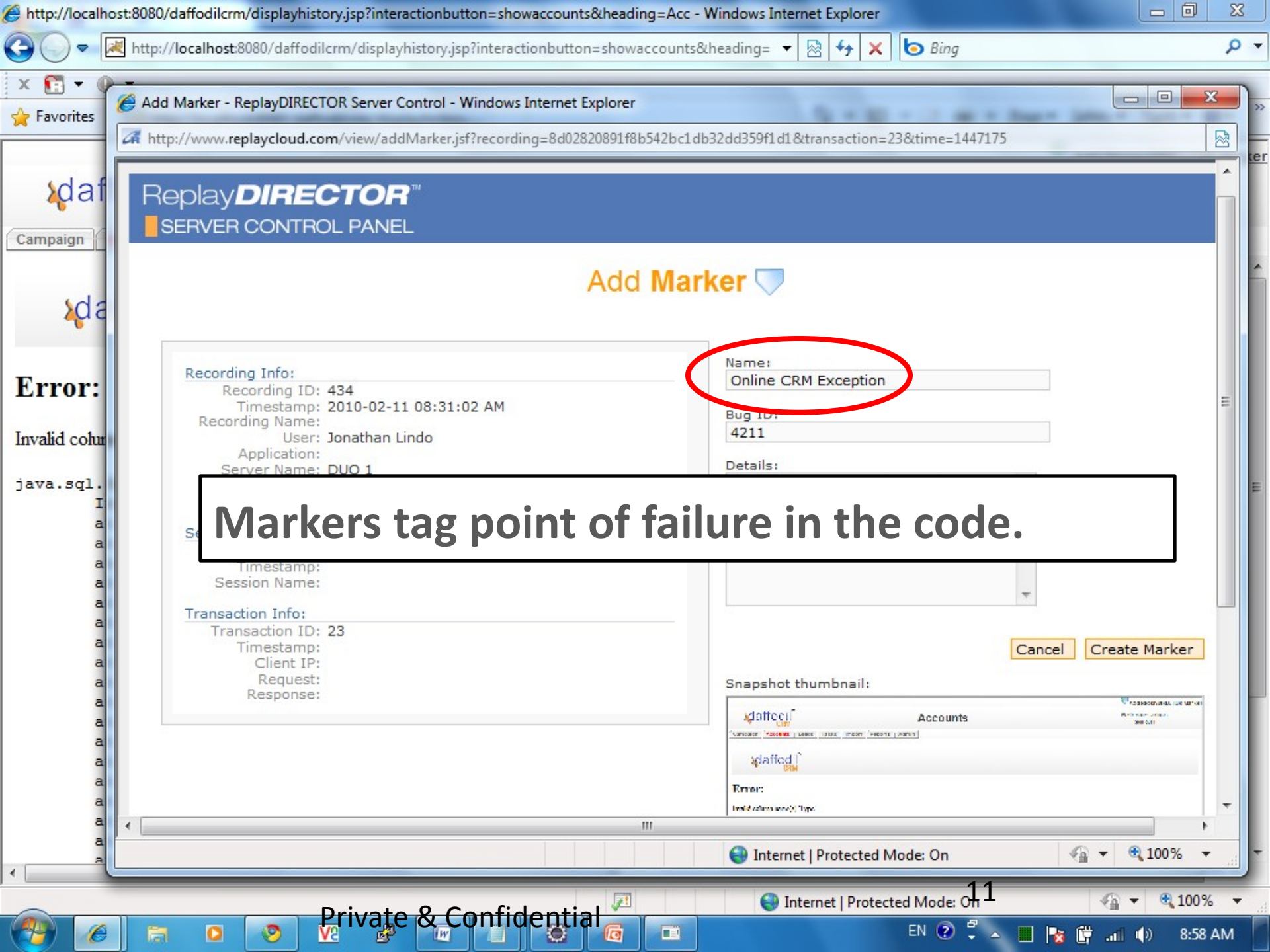
**View detailed Log Messages after the Event during Replay**



Private & Confidential

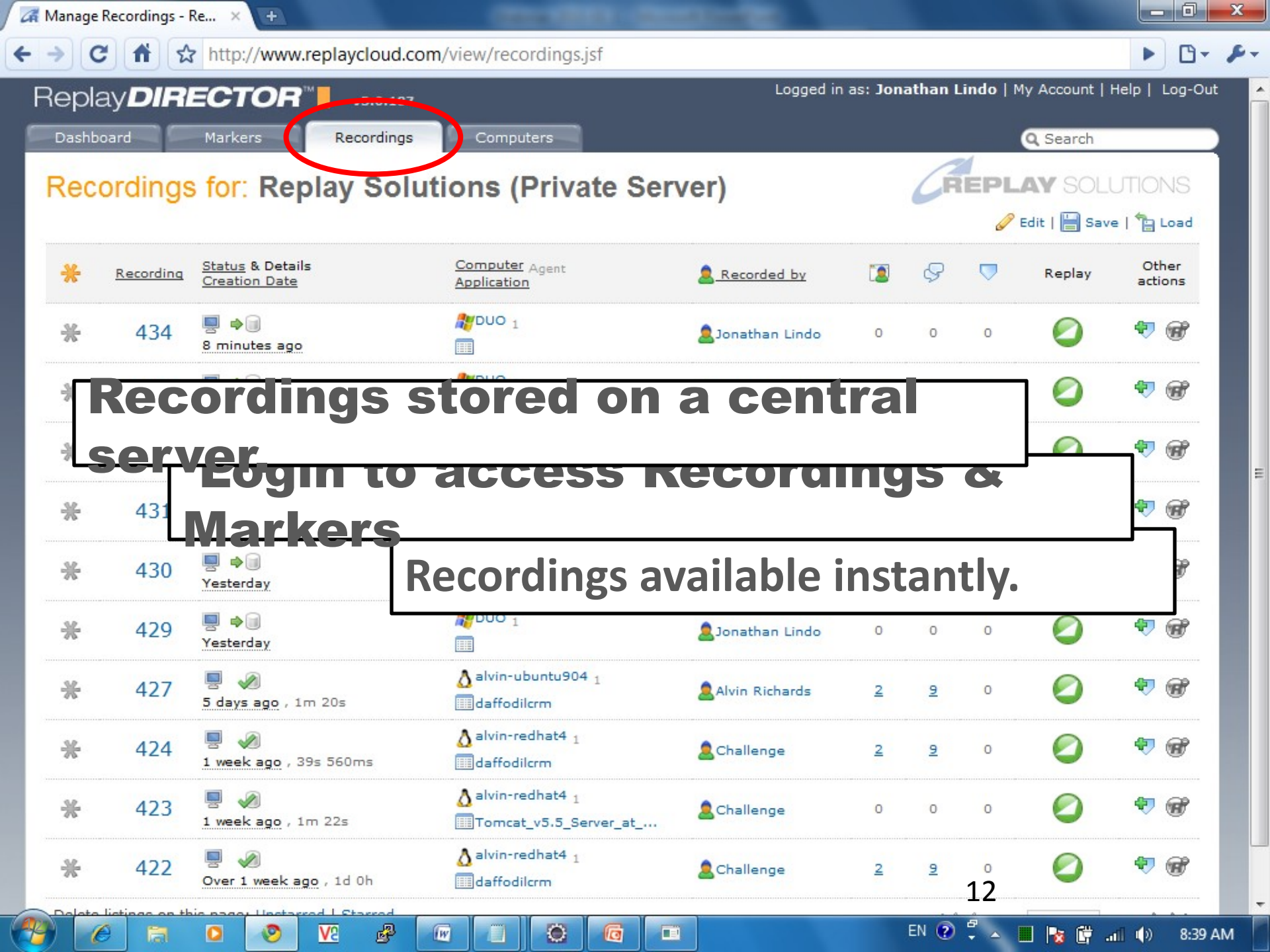

http://localhost:8080/daffodilcrm/displayhistory.jsp?interactionbutton=showaccounts&heading=Acc - Windows Internet Explorer
http://localhost:8080/daffodilcrm/displayhistory.jsp?interactionbutton=showaccounts&heading=
Favorites
http://localhost:8080/daffodilcrm/displayhistory....
Page
Safety
Tools
Add ReplayDIRECTOR Marker
daffodil CRM
Accounts
Welcome admin
[sign out ]
Campaign
Accounts
Leads
Tasks
Import
Reports
Admin
New Account
Delete Account
Create View
Refresh
View
None
20
Start
Prev
(1 to 11 of 11)
Next
Last
Account Search
Name
Print Addresses
Export
online help
Sr.
Action
CustomerCode
AccountName
Website
Email
Telephone
Fax
Industry
Types
None
Easy Money
Key Customer
Partner
For example...
Complex Hibernate, AJAX, REST App...
1 agexp.com jrdshaw@agexp.com 866-866-8866 Game Developer 877
2 onlinegames.com purchasing@onlinegames.com 800-111-3456 Game Developer 100
3 268
4 500
5 970
6 300
7 320
8 SIMITEC Similar Technologies www.simi.com simi@similar.com 800-111-3456 Enterprise Applications Prospect 500
9 NUAN Nuance Industries www.nuance,com nuan@ind.com 766-875-7646 Retail Prospect 120
10 JOUR Journey Mannstech www.jm.com jour@manns.com 754-875-5433 Enterprise Applications Partner 864
11 BRLYX Burns Lynx Ltd. www.bll.com bll@burns.com 866-866-8866 Financial Prospect 766
New Account
Delete Account
Create View
Start
Prev
(1 to 11 of 11)
Next
Internet | Protected Mode: On
100%
EN
8:53 AM

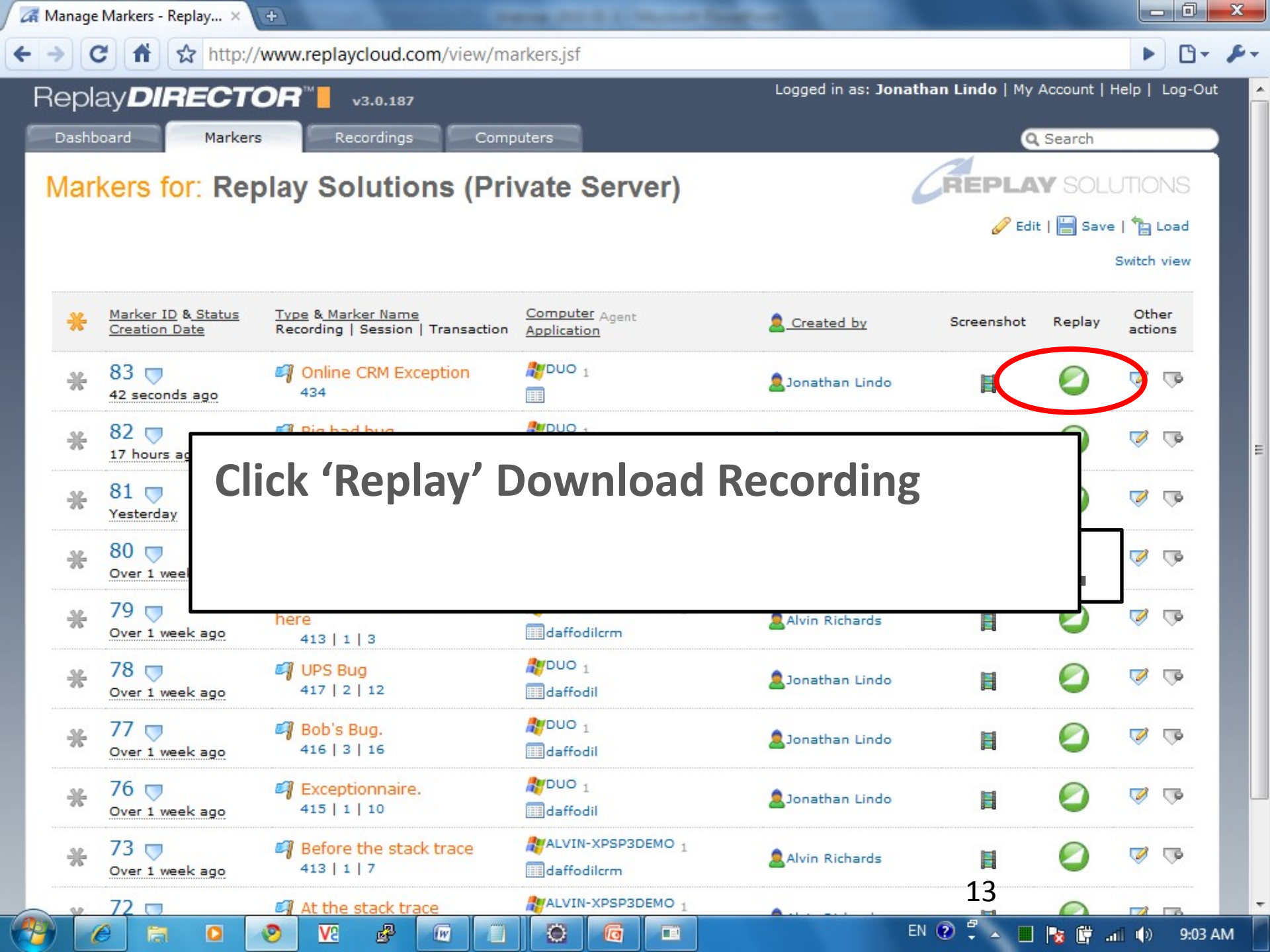

http://localhost:8080/daffodilcrm/displayhistory.jsp?interactionbutton=showaccounts&heading=Acc - Windows Internet Explorer
http://localhost:8080/daffodilcrm/displayhistory.jsp?interactionbutton=showaccounts&heading=
Bing
Favorites
http://localhost:8080/daffodilcrm/displayhistory....
Page
Safety
Tools
Add ReplayDIRECTOR Marker
daffodil CRM
Accounts
Welcome admin
[sign out ]
Campaign
Accounts
Leads
Tasks
Import
Reports
Admin
daffodil CRM
Recording has it captured!
Error:
Invalid column name(s) 'Type'.
java.sql.SQLException:
Invalid column name(s) 'Type'.
at com.daffodilwoods.database.resource.DException.getSqlException(Unknown Source)
at in.co.daffodil.db.jdbc.DaffodilDBStatement.executeQuery(Unknown Source)
at org.apache.jsp.AllAccounts_jsp._jspService(AllAccounts_jsp.java:416)
at org.apache.jasper.runtime.HttpJspBase.service(HttpJspBase.java:98)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:803)
at org.apache.jasper.servlet.JspServletWrapper.service(JspServletWrapper.java:328)
at org.apache.jasper.servlet.JspServlet.serviceJspFile(JspServlet.java:315)
at org.apache.jasper.servlet.JspServlet.service(JspServlet.java:265)
at javax.servlet.http.HttpServlet.service(HttpServlet.java:803)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:269)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:188)
at com.replaysolutions.util.ReplayServlet.doFilter(ReplayServlet.java:69)
at org.apache.catalina.core.ApplicationFilterChain.internalDoFilter(ApplicationFilterChain.java:215)
at org.apache.catalina.core.ApplicationFilterChain.doFilter(ApplicationFilterChain.java:188)
at org.apache.catalina.core.StandardWrapperValve.invoke(StandardWrapperValve.java:210)
at org.apache.catalina.core.StandardContextValve.invoke(StandardContextValve.java:174)
at org.apache.catalina.core.StandardHostValve.invoke(StandardHostValve.java:127)
Done
Internet | Protected Mode: On
100%
EN
8:55 AM

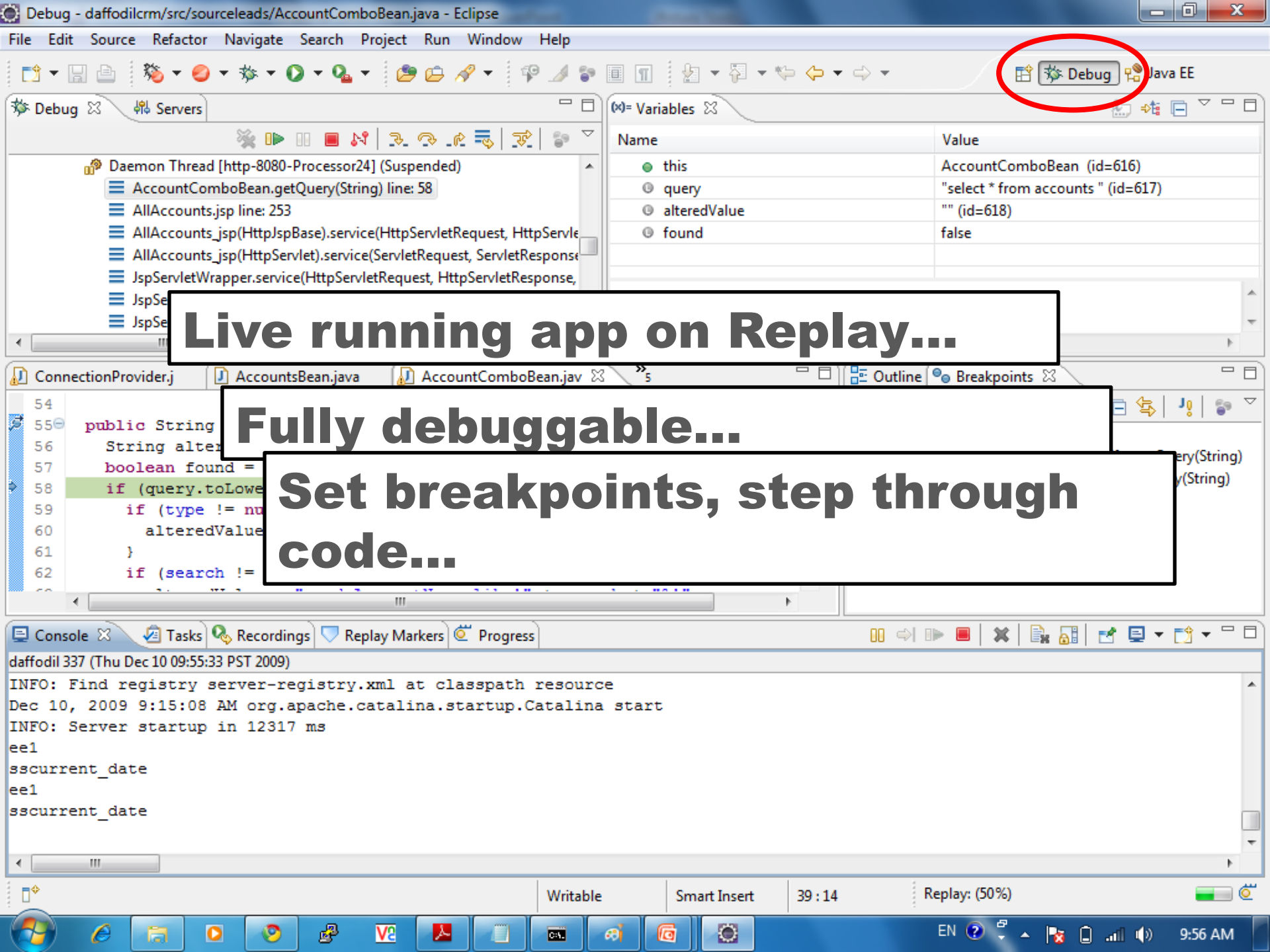


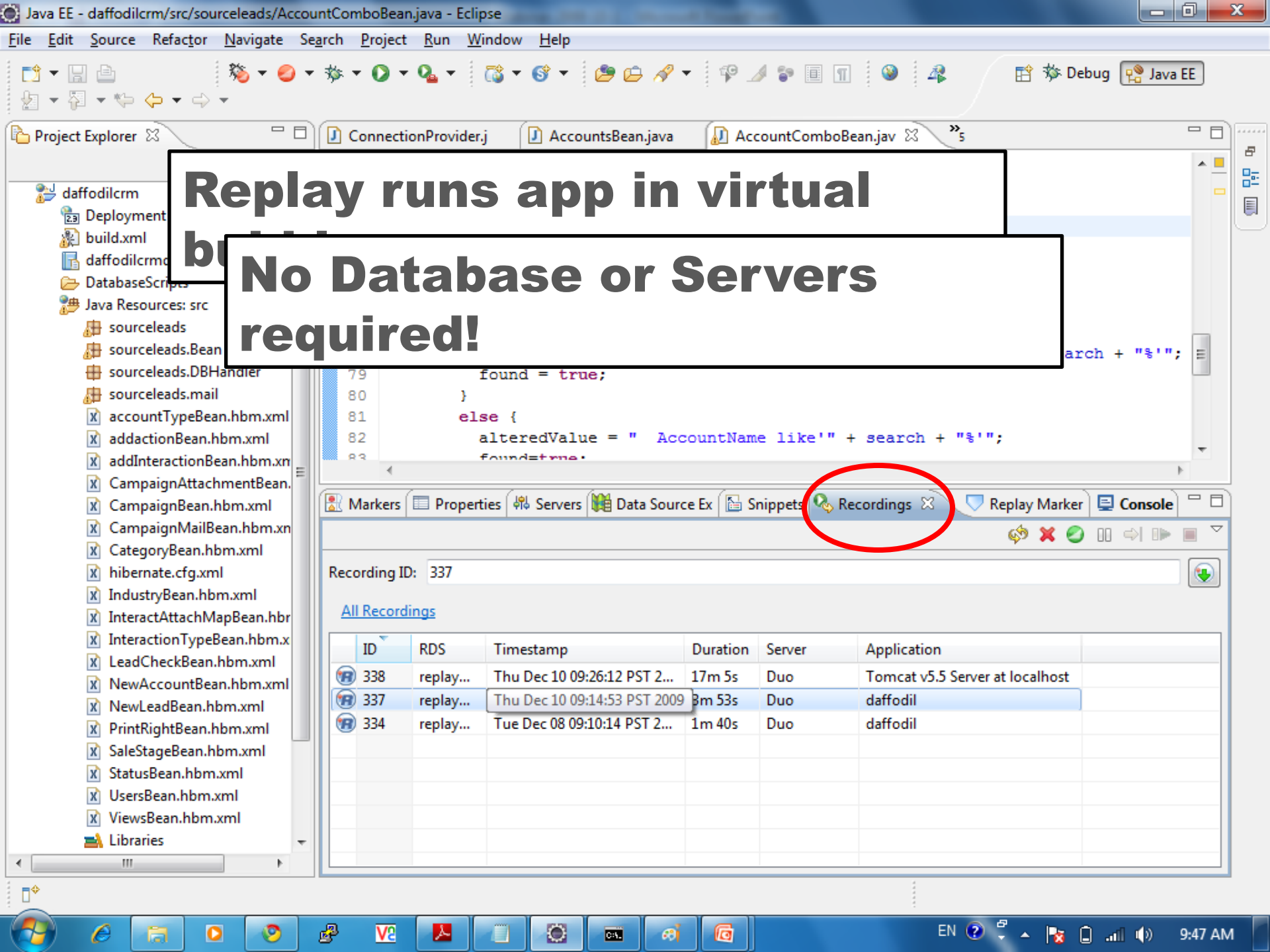


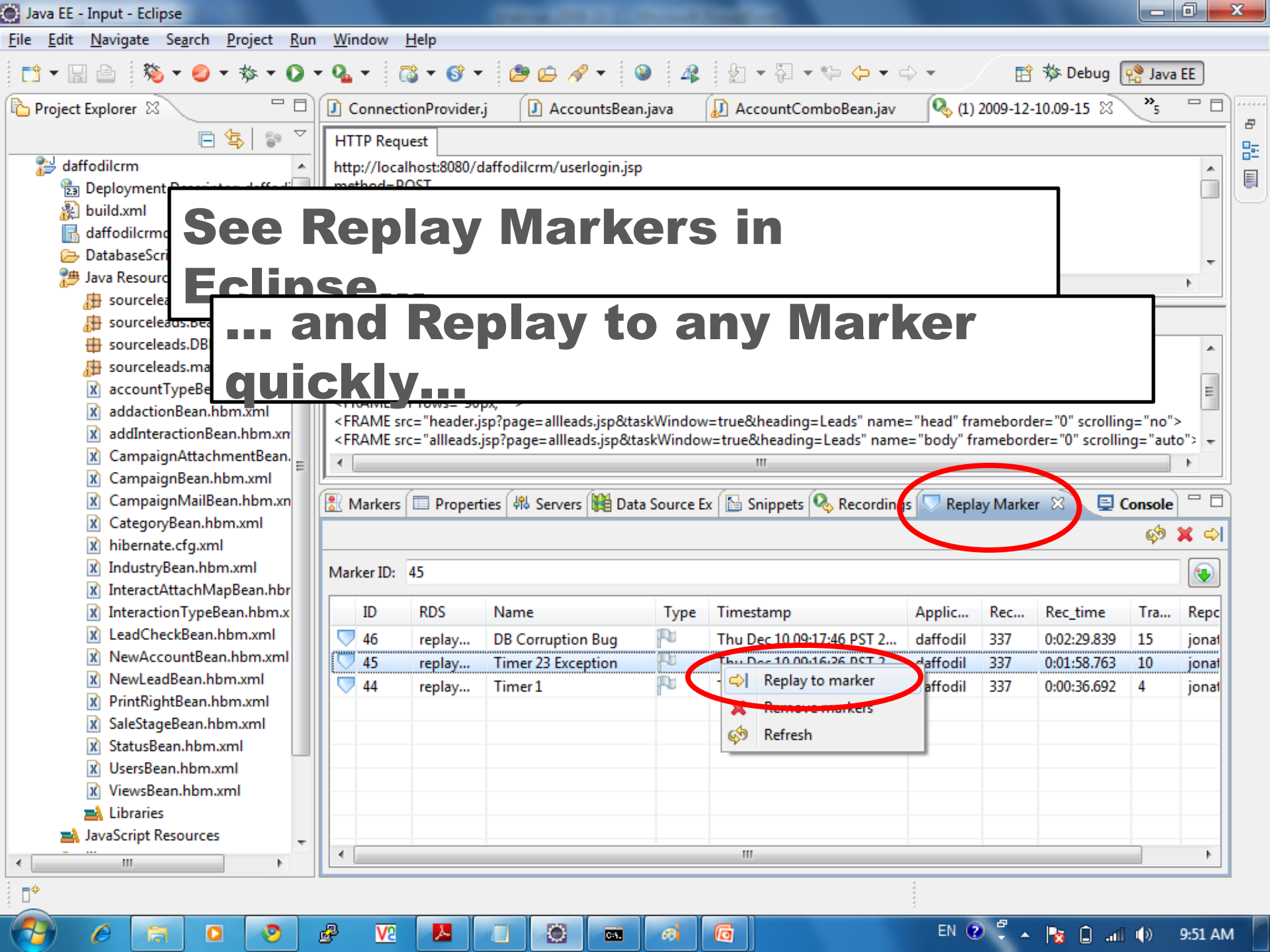

Private & Confidential


Manage Recordings - Re...
http://www.replaycloud.com/view/recordings.jsf
ReplayDIRECTOR
Logged in as: Jonathan Lindo | My Account | Help | Log-Out
Dashboard
Markers
Recordings
Computers
Search
Recordings for: Replay Solutions (Private Server)
REPLAY SOLUTIONS
Edit | Save | Load
Recording
Status & Details
Creation Date
Computer
Agent
Application
Recorded by
Replay
Other actions
434
8 minutes ago
DUO 1
Jonathan Lindo
0 0 0
Recordings stored on a central server
Login to access Recordings & Markers
Recordings available instantly.
431
430
Yesterday
429
Yesterday
DUO 1
Jonathan Lindo
0 0 0
427
5 days ago , 1m 20s
alvin-ubuntu904 1
daffodilcrm
Alvin Richards
2 9 0
424
1 week ago , 39s 560ms
alvin-redhat4 1
daffodilcrm
Challenge
2 9 0
423
1 week ago , 1m 22s
alvin-redhat4 1
Tomcat_v5.5_Server_at_...
Challenge
0 0 0
422
Over 1 week ago , 1d 0h
alvin-redhat4 1
daffodilcrm
Challenge
2 9 0
Delete listings on this page: Unstarred | Starred
EN
8:39 AM


Manage Markers - Replay...
http://www.replaycloud.com/view/markers.jsf
ReplayDIRECTOR v3.0.187
Logged in as: Jonathan Lindo | My Account | Help | Log-Out
Dashboard
Markers
Recordings
Computers
Search
Markers for: Replay Solutions (Private Server)
REPLAY SOLUTIONS
Edit | Save | Load
Switch view
Marker ID & Status
Creation Date
Type & Marker Name
Recording | Session | Transaction
Computer Agent
Application
Created by
Screenshot
Replay
Other actions
83
42 seconds ago
Online CRM Exception
434
DUO 1
Jonathan Lindo
82
17 hours ago
81
Yesterday
80
Over 1 week
79
Over 1 week ago
here
413 | 1 | 3
daffodilcrm
Alvin Richards
78
Over 1 week ago
UPS Bug
417 | 2 | 12
DUO 1
daffodil
Jonathan Lindo
77
Over 1 week ago
Bob's Bug.
416 | 3 | 16
DUO 1
daffodil
Jonathan Lindo
76
Over 1 week ago
Exceptionnaire.
415 | 1 | 10
DUO 1
daffodil
Jonathan Lindo
73
Over 1 week ago
Before the stack trace
413 | 1 | 7
ALVIN-XPSP3DEMO 1
daffodilcrm
Alvin Richards
72
At the stack trace
ALVIN-XPSP3DEMO 1
Click 'Replay' Download Recording
13
EN
9:03 AM

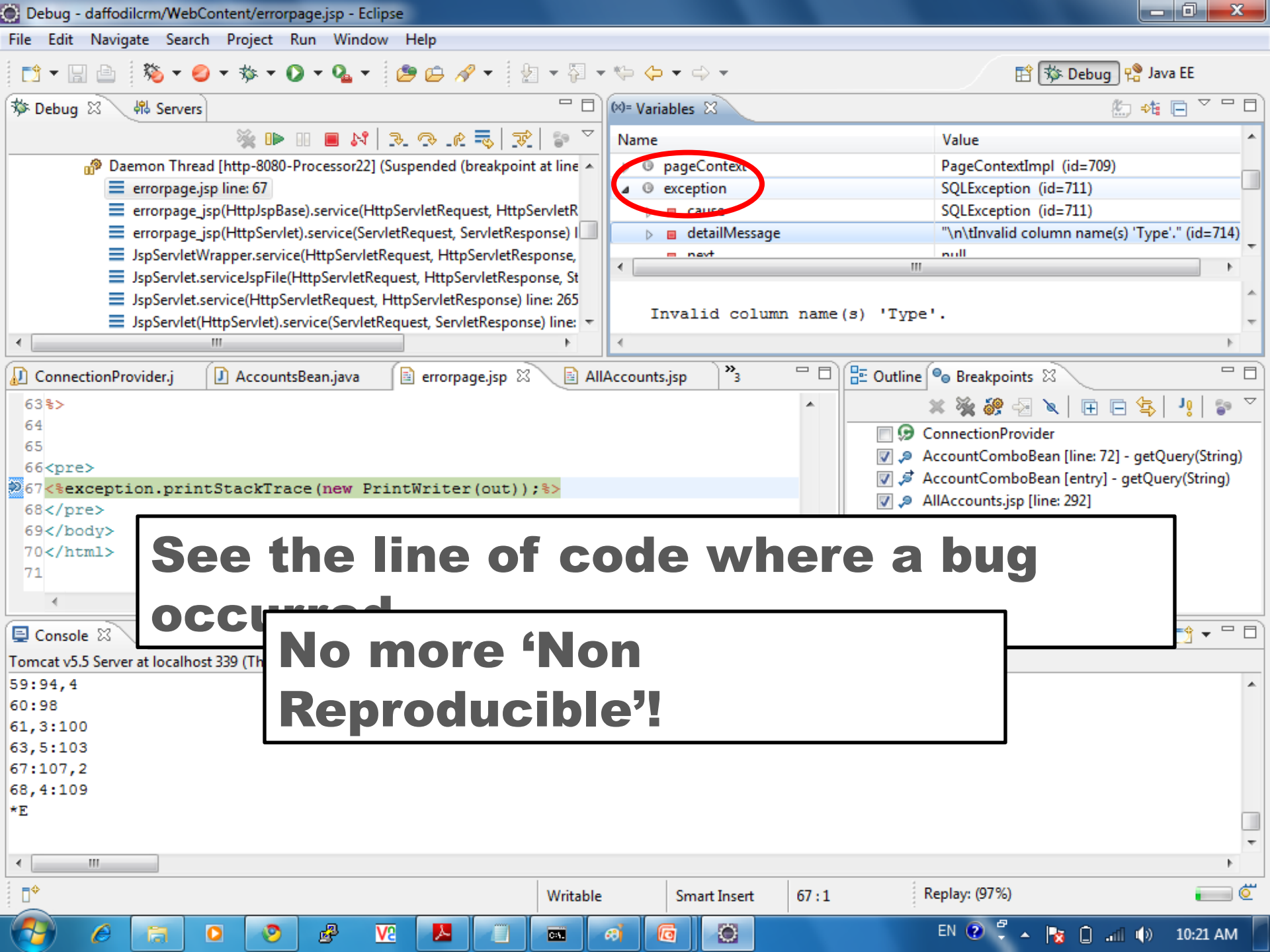

Debug - daffodilcrm/src/sourceleads/AccountComboBean.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Debug
Java EE
Debug
Servers
Daemon Thread [http-8080-Processor24] (Suspended)
AccountComboBean.getQuery(String) line: 58
AllAccounts.jsp line: 253
Variables
Name
Value
this
AccountComboBean (id=616)
query
"select * from accounts " (id=617)
alteredValue
"" (id=618)
found
false
Live running app on Replay...
ConnectionProvider.j
AccountsBean.java
AccountComboBean.jav
Outline
Breakpoints
Fully debuggable...
Set breakpoints, step through code...
Console
Tasks
Recordings
Replay Markers
Progress
daffodil 337 (Thu Dec 10 09:55:33 PST 2009)
INFO: Find registry server-registry.xml at classpath resource
Dec 10, 2009 9:15:08 AM org.apache.catalina.startup.Catalina start
INFO: Server startup in 12317 ms
ee1
sscurrent_date
ee1
sscurrent_date
Writable
Smart Insert
39 : 14
Replay: (50%)
9:56 AM

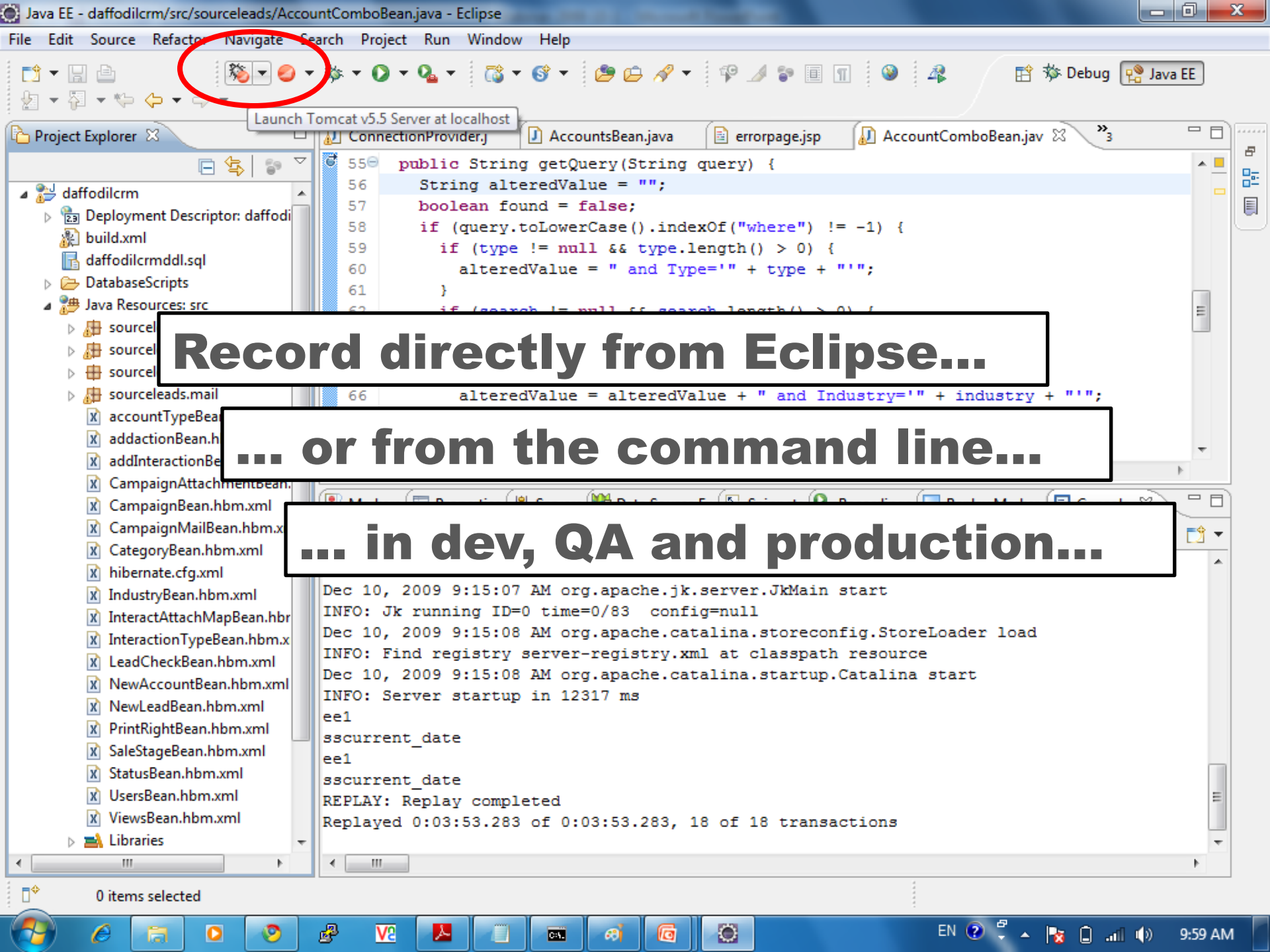

Java EE - daffodilcrm/src/sourceleads/AccountComboBean.java - Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
Debug
Java EE
Project Explorer
ConnectionProvider.j
AccountsBean.java
AccountComboBean.jav
Replay runs app in virtual
No Database or Servers
required!
daffodilcrm
Deployment
build.xml
DatabaseScripts
Java Resources: src
sourceleads
sourceleads.Bean
sourceleads.DBHandler
sourceleads.mail
accountTypeBean.hbm.xml
addactionBean.hbm.xml
addInteractionBean.hbm.xn
CampaignAttachmentBean.
CampaignBean.hbm.xml
CampaignMailBean.hbm.xn
CategoryBean.hbm.xml
hibernate.cfg.xml
IndustryBean.hbm.xml
InteractAttachMapBean.hbr
InteractionTypeBean.hbm.x
LeadCheckBean.hbm.xml
NewAccountBean.hbm.xml
NewLeadBean.hbm.xml
PrintRightBean.hbm.xml
SaleStageBean.hbm.xml
StatusBean.hbm.xml
UsersBean.hbm.xml
ViewsBean.hbm.xml
Libraries
found = true;
}
else {
alteredValue = " AccountName like'" + search + "%'";
Markers
Properties
Servers
Data Source Ex
Snippets
Recordings
Replay Marker
Console
Recording ID: 337
All Recordings
ID
RDS
Timestamp
Duration
Server
Application
338 replay... Thu Dec 10 09:26:12 PST 2... 17m 5s Duo Tomcat v5.5 Server at localhost
337 replay... Thu Dec 10 09:14:53 PST 2009 3m 53s Duo daffodil
334 replay... Tue Dec 08 09:10:14 PST 2... 1m 40s Duo daffodil
EN
9:47 AM




# See Replay Markers in Eclipse...

## ... and Replay to any Marker quickly...


Debug - daffodilcrm/WebContent/errorpage.jsp - Eclipse
File Edit Navigate Search Project Run Window Help
Debug
Java EE
Debug
Servers
Daemon Thread [http-8080-Processor22] (Suspended (breakpoint at line
errorpage.jsp line: 67
errorpage_jsp(HttpJspBase).service(HttpServletRequest, HttpServletR
errorpage_jsp(HttpServlet).service(ServletRequest, ServletResponse)
JspServletWrapper.service(HttpServletRequest, HttpServletResponse,
JspServlet.serviceJspFile(HttpServletRequest, HttpServletResponse, St
JspServlet.service(HttpServletRequest, HttpServletResponse) line: 265
JspServlet(HttpServlet).service(ServletRequest, ServletResponse) line:
Variables
Name
Value
pageContext
PageContextImpl (id=709)
exception
SQLException (id=711)
cause
SQLException (id=711)
detailMessage
"\n\tInvalid column name(s) 'Type'." (id=714)
next
null
Invalid column name(s) 'Type'.
ConnectionProvider.j
AccountsBean.java
errorpage.jsp
AllAccounts.jsp
63 %>
64
65
66 <pre>
67 <%exception.printStackTrace(new PrintWriter(out));%>
68 </pre>
69 </body>
70 </html>
71
Outline
Breakpoints
ConnectionProvider
AccountComboBean [line: 72] - getQuery(String)
AccountComboBean [entry] - getQuery(String)
AllAccounts.jsp [line: 292]
See the line of code where a bug occurred
No more 'Non Reproducible'!
Console
Tomcat v5.5 Server at localhost 339 (Th
59:94,4
60:98
61,3:100
63,5:103
67:107,2
68,4:109
*E
Writable
Smart Insert
67 : 1
Replay: (97%)
EN
10:21 AM




**Record directly from Eclipse...**

**... or from the command line...**

**... in dev, QA and production...**

# Many companies resolving issues 50% faster…

Private & Confidential

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