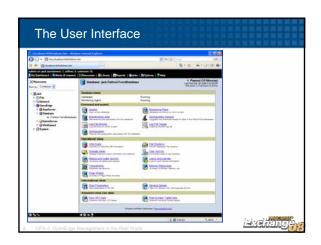


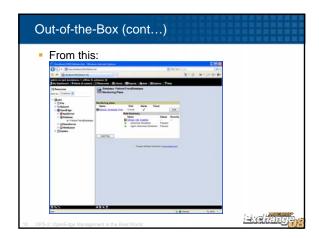
### Introduction Who here has never heard of OpenEdge (Fathom) Management? Progress' monitoring tool for both OpenEdge and system resources Out-of-the-box you get Pretty darn good monitoring · More trending information then you'll know what to do with isteliane) Introduction (cont...) Why OpenEdge Management? • No in-house OpenEdge expertise • Or worse: ONE expert · Internal UNIX admins and/or other DBAs not interested in learning OpenEdge · Consultants can get expensive over the longrun! isidiaig: Nomenclature Resource: A file, database, AppServer<sup>™</sup>, CPU, disk, etc... Anything that needs monitoring • Rule: A test that is applied to a resource Alert: What is generated when a resource does not pass a given rule Job: Any task Action: Something that is done as a response to a generated alert

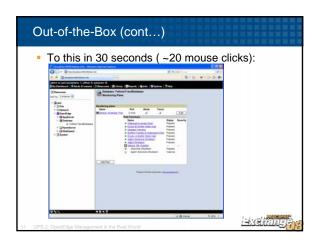
<u> Lacining</u>

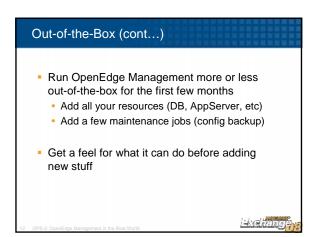
# Phase I: Out-of-the-Box Same installation procedure as any OpenEdge product 15 minutes max to install AdminServer-managed DB's automatically added to resource list Script managed DBs can be added with a few clicks Option to auto-discover operating system resources

# Simple and intuitive user interface Main categories across the top Windows Explorer-like Treeview/Listview below Below Application of the New World App









Tips and Tricks	
<ul> <li>Learn from our mistakes</li> </ul>	
Of course YMMV!	
Use this information at your own risk. Always test test first	
- Always test test first	
13 OPS-2. OpenEdge Management in the Real World Live Transparent in the Real World	
Tip #1: Get a <u>very</u> recent version of Java <sup>™</sup>	
<ul><li>Veeeeery recent</li><li>But still supported (i.e. 1.4.2.x but not 1.5)</li></ul>	
<ul><li>Older versions of Java are quite buggy</li><li>Especially on AIX!</li></ul>	
<ul><li>Talk to Tech Support</li><li>They will have the latest information</li></ul>	
<ul> <li>Be wary of outdated KB entries</li> </ul>	
14 OPS-2 OnesE the Management in the Real World	
14 UP-32 Opticity nonagement at the near visits	
Tip #2: Give AdminServer Some Elbow Room	
<ul><li>\$DLC/properties/AdminServerPlugins.properties</li><li>Look for "jvmargs="</li></ul>	
<ul><li>-Xms512m – Xmx1280m</li><li>See P109126</li></ul>	
<ul><li>64-bit java supported as of 10.1C</li></ul>	
l≚xchange	

Tip #2 (cont)	
<ul> <li>Speaking of Java</li> <li>%DLC%lyre\jave.exe may need to be enabled under Windows DEP         <ul> <li>Data Execution Prevention</li> </ul> </li> </ul>	
<ul> <li>See http://support.microsoft.com/kb/875352</li> </ul>	
When installing patches make sure java.exe is in the system PATH  Used to extract files  SP install may fail	
Error message subtle and easy to miss	
16 OPS-2 OpenEdge Management in the Real World	
-	
Tip #3: Stay Current	
Apply all available patches	
Lingrado to OpenEdge 10.1C (Management	
<ul> <li>Upgrade to OpenEdge 10.1C (Management 3.1C)</li> </ul>	
Easy upgrade and worth the effort	
<u> Excliange</u>	
Control of the Contro	
Tip #4: Segregate	
<ul> <li>Do not install OpenEdge Management in the OpenEdge installation directory</li> </ul>	
Do not put your trend database in the default	
directory  Initial config via web page suggests creating	
DB in install dir  Also consider moving the config ODB DB	
Fathom.o* in \$OEM/config     FathomConfigDir in \$OEM/fathom.init.params	
Never a good idea to mix programs and data	

### Tip #5: Backup Your Configuration Immediately create a backup job for the OpenEdge Management configuration Backup to prod DB backup directory • Create job from existing template: - "Configuration Backup" Create a simple script to backup other files: · fathom.properties · fathom.init.properties • fathomrealm.properties isteliane) Tip #6: Plan for Plenty of Disk Space Trend database and working directory can consume significant space Manage trend frequency • Graph Cache can grow quickly · Reports created in working directory Plan for some kind of archive/purge of working directory Tip #7: Archive and Purge Trend DB Do NOT wait to create Compact/Archive/Purge job Schedule weekly Otherwise trend DB will grow quickly i-velimie):

### Tip #8: Optimize Trend DB for Purge Set your trend DB startup parameters to optimize archive/purge • -B 20000 (8Kb DB block size) -The default may change so check block size after installation • BI Cluster size of 4-8Mg • -L 100 000 • -bibufs 50 • One APW plus the BIW is diang Tip #9: Do not Forget X Libraries If you do not see graphs on UNIX, make sure X-Windows is installed • Or at a minimum the graph libraries X-windows libraries also mandatory for remote monitoring · Sonic will not install without them isidiaig: Tip #10: No Spaces! Do not use spaces in OpenEdge and OpenEdge Management installation directories • No "C:\Program Files" · Remote monitoring will not work High ang

Most Important Tip
Get to know the OpenEdge Management
Support Team
<ul> <li>Currently:</li> <li>Cyril Gleiman, Libor Laubacher, Darrel Cronkhite, Phil O'Donnell, Richard Shulman and Hugo Loera</li> </ul>
25 OPS-2: OpenEdge Management in the Real World
Phase II: Business Process Monitoring
<ul> <li>Obviously DBs, AppServers, etc must stay up</li> <li>Be proactive, not reactive</li> </ul>
What other business processes are key?     Ex.: EDI upload/download
<ul> <li>What could potentially disrupt your business?</li> <li>Ex.: Lock conflicts, licensing issues</li> </ul>
25 OPS-2: OpenEdge Management in the Real World
Business Process Monitoring (cont)
Old method:
Cron scripts, batch jobs, other schedulers
<ul><li>New method:</li><li>OpenEdge Management Jobs</li></ul>
<ul> <li>One central place for all things OpenEdge</li> <li>Do not send emails from scripts</li> </ul>
Generate OpenEdge Management Alerts     Let the Alert configuration decide what to do
27 OPS-2: OpenEdge Management in the Real World Lister State    28 OPS-2: OpenEdge Management in the Real World

### Business Process Monitoring (cont...) Long Transaction Monitoring · Old-style code allows users to control TX start and end · Can result in incredible BI growth! Simple to add a custom job to monitor and report long transactions Monitor \_TRANSACTION VST isteliane) Business Process Monitoring (cont...) Validate Schema Holders Many companies interface with other systems via DataServer • 3<sup>rd</sup> party support may not notify you when they make changes to their app • Simple task to check schema holder every morning Business Process Monitoring (cont...) Lock Conflicts · Common problem: Normal processing interferes with batch processing and vice- Especially true with older systems -Longer lock times Automatically monitor \_LOCK VST for lock conflicts Hadinig ?

Business Process Monitoring (cont)	
<ul> <li>License Counts</li> <li>Licensing needs grow with your business</li> <li>Don't let a vendor audit surprise you with a big invoice!</li> </ul>	
31 OPS-2: OpenEdge Management in the Real World	
Business Process Monitoring (cont)	
<ul><li>Non-Progress processes</li><li>Still crucial to your business</li><li>Examples:</li></ul>	
EDI     Batch processing queues     Shop floor equipment     OpenEdge won't necessarily monitor	
However can centralize alert and response    Comparison   Compari	
Phase III: Task Consolidation	
<ul><li>Inventory all tasks related to your OpenEdge environment:</li><li>DBA tasks</li></ul>	
Application tasks     Note the pertinent information:     User account that executes the task	
<ul><li>Parameters</li><li>Schedule</li><li>Careful! Not all tasks are run by CRON</li></ul>	

Heinigh:

#### DBA Tasks

- Job templates already exist for most DBA tasks
  - DB Backup/Restore
  - DB Analysis
  - Index Compaction
  - BI Truncate/Grow
- Easy to create new templates
  - Simply copy and modify existing perl scripts

OPS-2: OpenEdge Management in the Real Worl



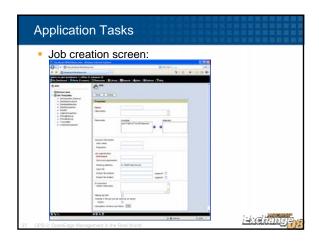
## for (\$x=0; \$x <= \$#RESRC\_DENAME; \$x++) { print scalar(localtime(time)), "Compacting index on database \$RESRC\_DENAME(\$x\\n"; print scalar(localtime(time)), "Compacting index \$FM\_IDXINDEXNAME on \$FM\_IDXINDEXNAME using \$FM\_COMPACTIONNUMBER(n"); \$rc = system("\$CMD \"\$RESRC\_DEPATH(\$x\)" -C idxcompact \$FM\_IDXINDEXNAME.\$FM\_IDXINDEXNAME \$FM\_COMPACTIONNUMBER"); if (\$rc != 0) { print scalar(localtime(time)), "IDXCompact error on database ", \$RESRC\_DENAME(\$x\], " error ",\$rc >> 8; print "\n"; } }

#### **Application Tasks**

- Consolidating application tasks requires two distinct actions:
  - Remove the task definition from its current location and create as a job
  - Modify error-handling to generate OpenEdge Management alerts

OranEdna Mananament in the Real World

Progress	Exchange 2008
8-11	June. 2008



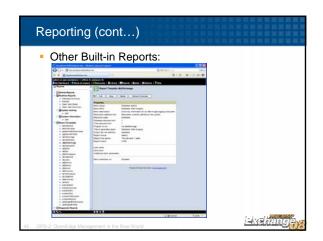
# Phase IV: Reporting Organizations implement OpenEdge Management for its monitoring capabilities ROI typically justified by just one avoided catastrophe Trend database reporting is the cream in your coffee, the icing on your cake... You don't really know your OpenEdge environment until you start mining this data

# Reporting (cont...) • Quick and dirty ROI: • DB Analysis report - How fast is your DB growing? - Which tables? - Is this normal? If not, find out why... - How much disk space should I budget for next year?

## Reporting (cont...) Real customer example: • Item table grew by 7 GB in one day • Weekly, automated report in OpenEdge Management alerted DBA · Was a coding error Reporting (cont...) Index Usage Report • Which indexes are being used the most? • Again: Is this normal? · What if use of an index suddenly increases or drops significantly? -Trend report will point this out - Compare to table usage report isdialg: Reporting (cont...) Index Analysis Report · Automatically notify DBA when time to compact or rebuild index · Index size may indicate need to change storage area Hadinig ?

# Reporting (cont...) Checkpoint VST/promon only contain info on last 8 CKPTs CKPTs are typically bunched: Large # of CKPT in very small period of time Often during overnight batch Promon – Activity shows total # CKPTs since startup May be misleading Set the trending interval very low to catch all CKPTs

# Reporting (cont...) • OpenEdge Management Alert Report • Detailed view of all OpenEdge-related issues • Problem and resolution • Easy to identify and correct recurring issues • Easy to confirm SLA-compliance



### Reporting (cont...) Any script can monitor a DB Might be ugly to manage and maintain Still doable • In fact, most of you probably are doing it this Trend data brings a whole new level of monitoring and understanding isteliane) In Summary Go slow… Take the time to understand what you're doing Consolidate Make OpenEdge Management the center of your OpenEdge universe Take Control • Use the data in the trend DB to get a firm understanding of your environment i-vetaig Mustn't Forget... Thanks to a few gentlemen from Tech Support: Darrel Cronkhite Cyril Gleiman Libor Laubacher Do not hesitate to call them if you have any questions

i-dialg?

# For More Information, go to... Want a copy of killprosession? Email pk@progresswiz.com OpenEdge Management on PSDN: http://www.psdn.com/library/kbcategory.jspa?categoryID= 1296 OpenEdge Management on the PEG http://www.peg.com/lists/oemgmt/web/

## Relevant Exchange Sessions OPS-04: The Complete DB DRP! OPS-13: Building and Deploying HA Apps OPS-08: Alerts, Alarms, Pages... OPS-15: What Was Happening with My Database... OPS-24: Success with OpenEdge Replication OPS-21:Managing Multiple Sites Part-Time: OpenEdge Repl and Mgmt Case Study





