

Oracle Enterprise Manager 12c

Sybase ASE Database Plug-in

May 2015

Safe Harbor Statement

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Heterogeneous Datacenter Management

Oracle's Philosophy

- Productize our deep understanding of the Oracle stack to provide integrated management
- Provide generic Oracle solutions for managing non-Oracle technology
 - User Experience Management, Middleware Management, Business Transaction Management, Testing & Test Data Management , ...
- Incent and promote others to provide optimized management for non-Oracle technology
- Provide product extensibility wherever possible
(today's focus: Plug-Ins)



Enterprise Manager 12c Heterogeneous Management

Making The Complex Simple In Three Steps

1. Use or create **plug-ins** using Enterprise Ready Extensible Framework

2. Leverage **common functions** through plug-ins

- Performance & Availability Monitoring
- Configuration Management
- Compliance Management
- Job System
- Alerting & Notifications
- Custom UI
- Reporting

3. Manage **like any other target**



Sybase ASE Plug-In

Revamped for Better Performance Analysis and Monitoring



New features

- New Performance page
- Enabled more Metric Thresholds
- 3 Out-of-the-Box Monitoring templates
- Migrated Information Publisher Reports to Business Intelligence Publisher Reports and more!

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface for a Sybase ASE instance named 'sybase-win8-sup'. The dashboard is divided into several sections:

- Summary:** Shows the instance status as 'Up', with 'Up Since' on Mon May 4 14:27:55 GMT-0400 2015. Server Name is SYBASEWIN8SUP and Database Version is 15.7.0.
- Database Instances:** A table listing database instances and their space utilization.
- Memory:** Displays memory statistics such as Total Physical Memory (123670 memory pages(2k)) and Total Logical Memory (123670 memory pages(2k)).
- Top Processes by CPU Usage (ms):** A line chart showing CPU usage for various processes like HK CHORES, HK GC, JOB SCHEDULER, etc.
- Worker Process Memory:** A line chart showing memory usage for worker processes over time.
- Connection Utilization (%):** A line chart showing the percentage of connections utilized.
- Data Cache Hit Ratio (%):** A line chart showing the hit ratio for the data cache.
- Device I/O (ms):** A line chart showing I/O activity for different devices.
- Incidents and Problems:** A table listing incidents, including 'The database sybsyste' and 'There are not enough'.
- Job Activity:** A summary of job activity, showing counts for Suspended, Problem, Action Required, Scheduled, and Running Executions.

Database Name	Total Data Space (MB)	Free Data Space (MB)	Used Data Space (MB)	Data Space Utilization (%)
master	26	12.76	13.24	50.923
model	6	2.71	3.29	54.833
pubs2	7	2.15	4.85	69.286
pubs2	6	1.4	4.6	76.667

Summary	Target	Severity	Status	Escalation level	Type	Time Since Las...
The database sybsyste		High	New	-	Incident	30 days 24 hours
There are not enough		High	New	-	Incident	26 days 3 hours

Sybase ASE Plug-In 12.1.0.4.0

Benefits

Apply Enterprise Manager management and monitoring to your Sybase ASE workloads.

- ✓ **Comprehensive Monitoring**
 - Availability, Performance Metrics
 - Alerts, Blackouts
 - Templates
 - Groups/ Systems

- ✓ **Configuration Analysis**
 - Detailed configuration collection
 - View/Save/Compare Configurations

- ✓ **Reporting**

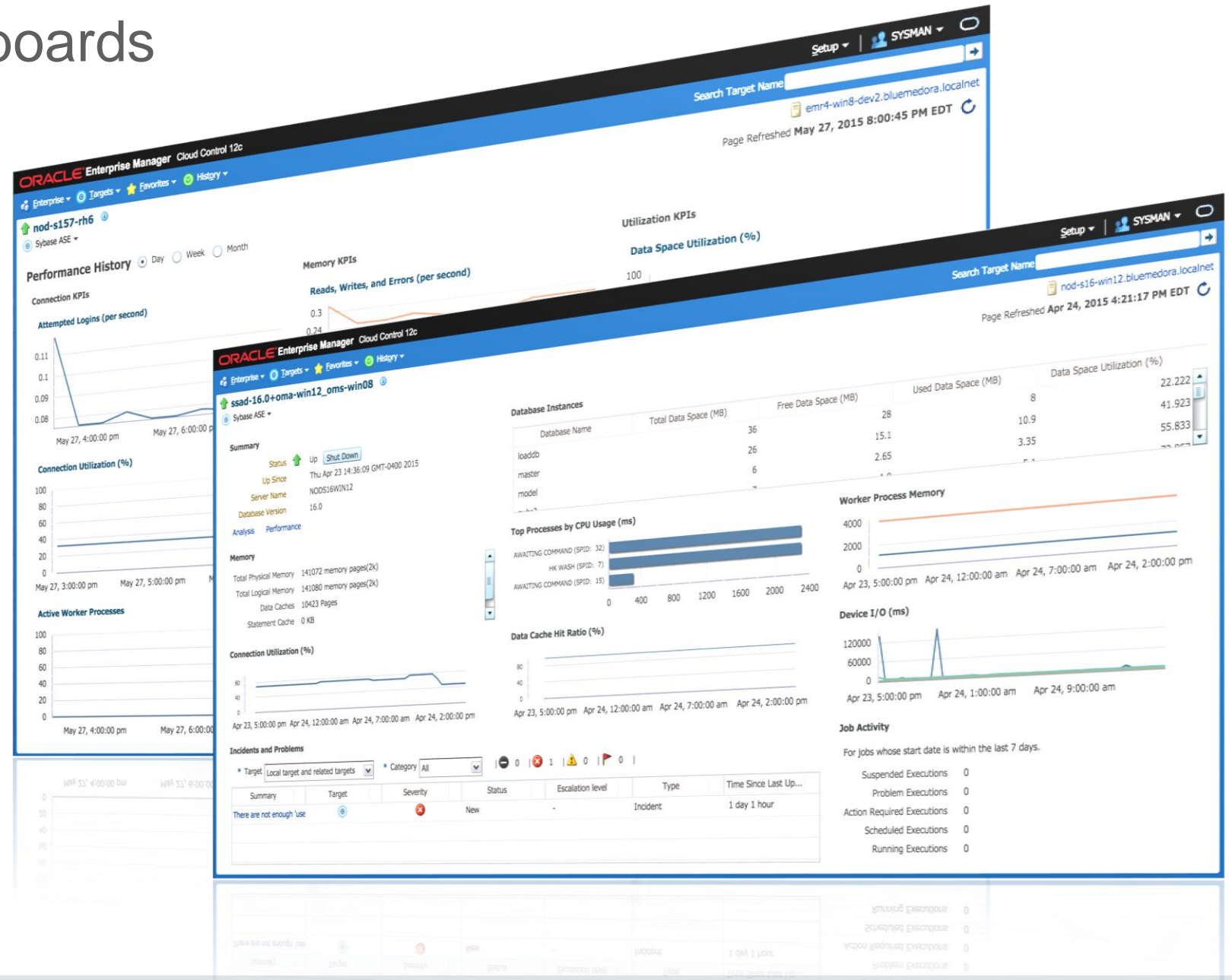
Sybase ASE Plug-In

Features

- Sybase ASE as EM **Managed Target**
 - Comprehensive collection of **monitoring Metrics** (~ 450)
 - Buffer Statistics, Memory Statistics, Cache Statistics
 - Locks, Processes, Space Usage
 - Users and Roles
 - Out-of-box **thresholds** on key metrics
 - 17 Out of the box **Reports** summarize key configuration and performance data
- Comprehensive **configuration management**
 - Server Configuration, Database Settings, Registry and Security Settings
 - Ability to View, Search and Compare configurations
 - Ability to schedule **Jobs**
 - Ability to Start/Stop Sybase ASE Databases
 - **Versions** supported:
 - Version 15.7 and 16.0 of Express (XE), Enterprise (EE), and Developer (DE) editions of Sybase Adaptive Server Enterprise

New Intuitive UI Dashboards

- Revamped for Better Performance Analysis and Monitoring
- Exposes even more key performance indicators
- Adds additional performance page with advanced investigative capabilities



New Sybase ASE Focused Dashboard Views

- View Database server as well as individual database instance health and availability
- Stop and Start jobs for the database
- Key health, performance, and availability views

Summary

Status ↑ Up
 Up Since Mon May 4 14:27:55 GMT-0400 2015
 Server Name SYBASEWIN8SUP
 Database Version 15.7.0
 Analysis Performance

Database Instances

Database Name	Total Data Space (MB)	Free Data Space (MB)	Used Data Space (MB)	Data Space Utilization (%)
master	26	12.76	13.24	50.923
model	6	2.71	3.29	54.833
pubs2	7	2.15	4.85	69.286

Memory

Total Physical Memory 123670 memory pages(2k)
 Total Logical Memory 123670 memory pages(2k)
 Data Caches 9959 Pages
 Statement Cache 0 KB
 Procedure Cache 10.125 MB

Top Processes by CPU Usage (ms)

HK CHORES (SPID: 9)
 HK GC (SPID: 8)
 JOB SCHEDULER (SPID: 15)
 CHECKPOINT SLEEP (SPID: 6)
 HK WASH (SPID: 7)

Worker Process Memory

Graph showing memory usage over time from May 3, 4:00:00 pm to May 4, 8:00:00 am.

Connection Utilization (%)

Graph showing connection utilization percentage over time.

Data Cache Hit Ratio (%)

Graph showing data cache hit ratio percentage over time.

Device I/O (ms)

Graph showing device I/O in milliseconds over time.

Incidents and Problems

* Target Local target and related targets * Category All | 0 | 2 | 0 | 0 |

Summary	Target	Severity	Status	Escalation level	Type	Time Since Las...
The database subsystem	📍	🔴	New	-	Incident	30 days 24 hours
There are not enough	📍	🔴	New	-	Incident	26 days 3 hours

Job Activity

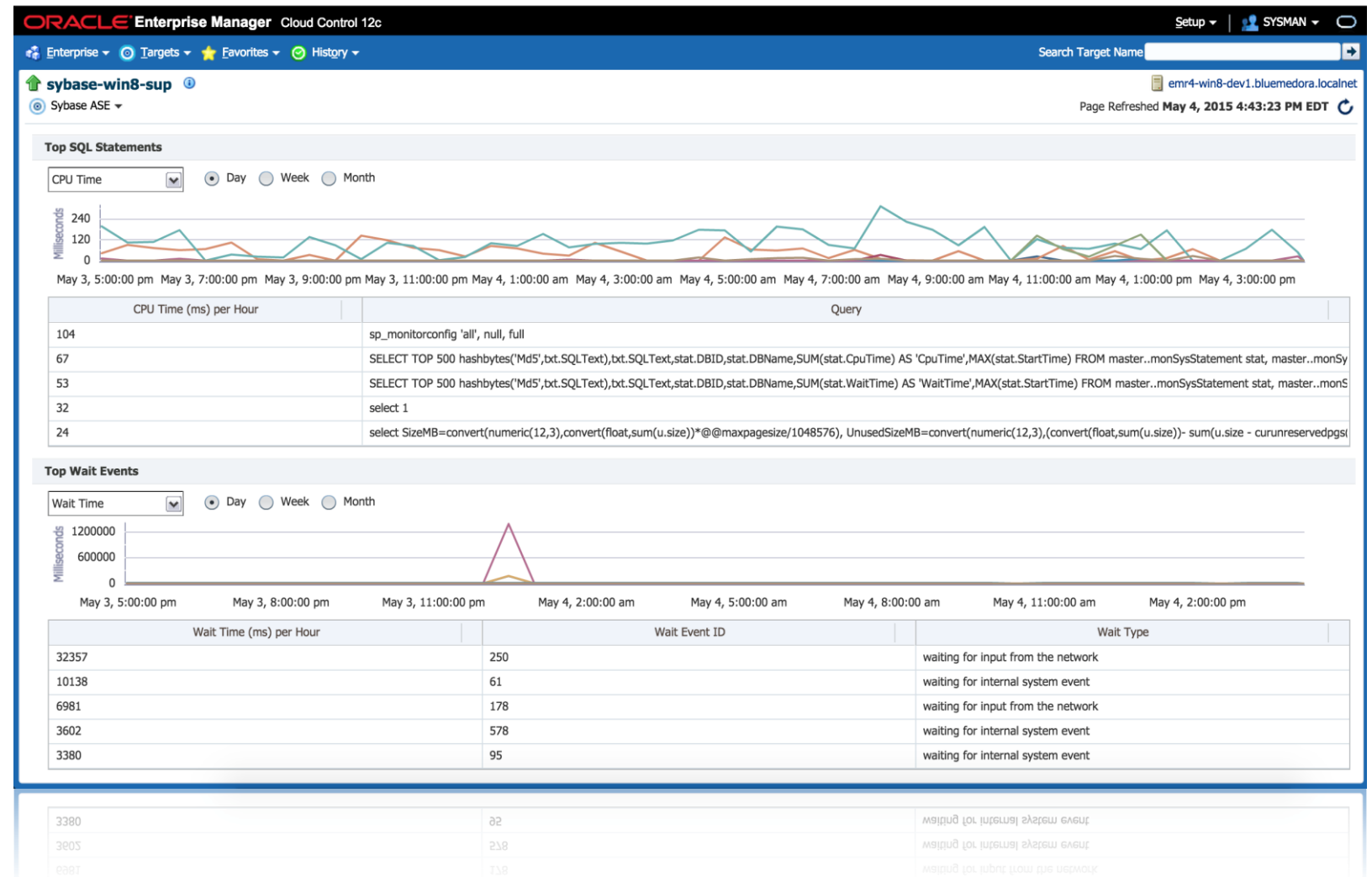
For jobs whose start date is within the last 7 days.

Suspended Executions 0
 Problem Executions 0
 Action Required Executions 0
 Scheduled Executions 0
 Running Executions 0



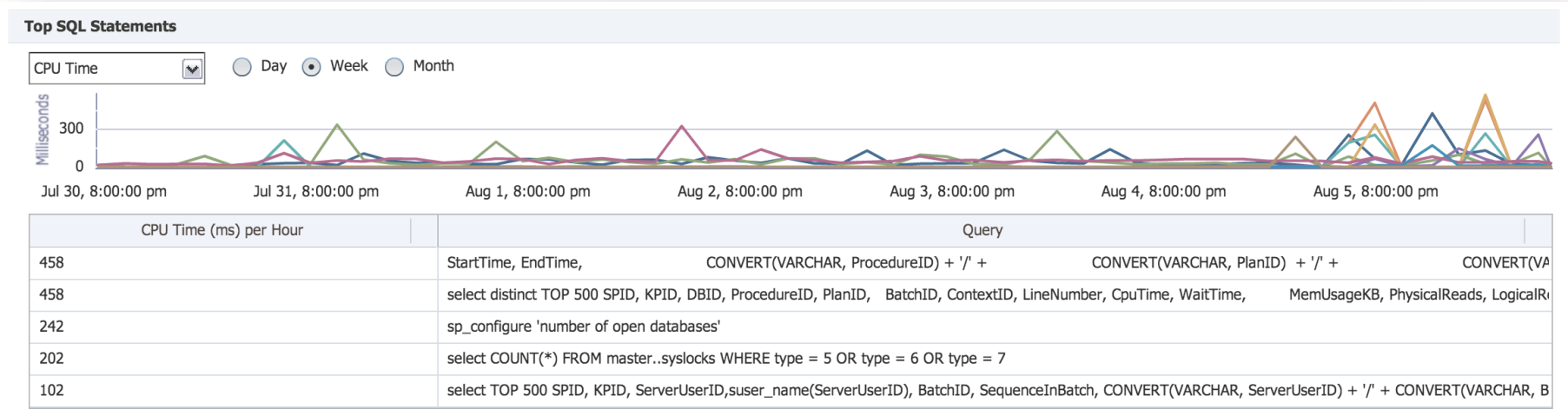
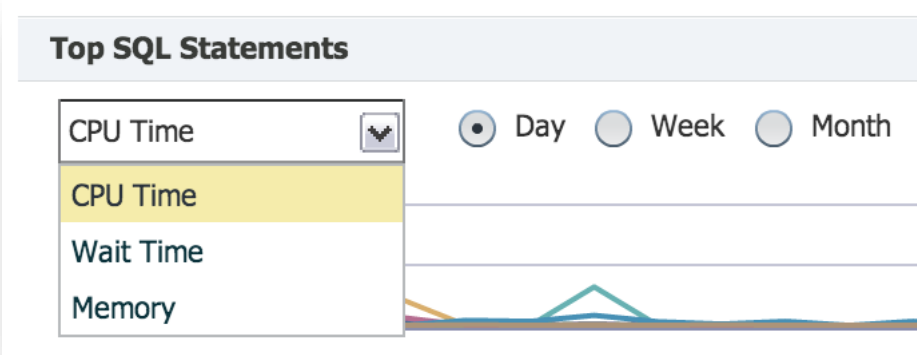
Drill into Sybase ASE SQL and Wait Events Statistics

- View SQL statistics by CPU Time, Wait Time, and Memory
- Break down of Wait Events by Wait Time and Wait Count

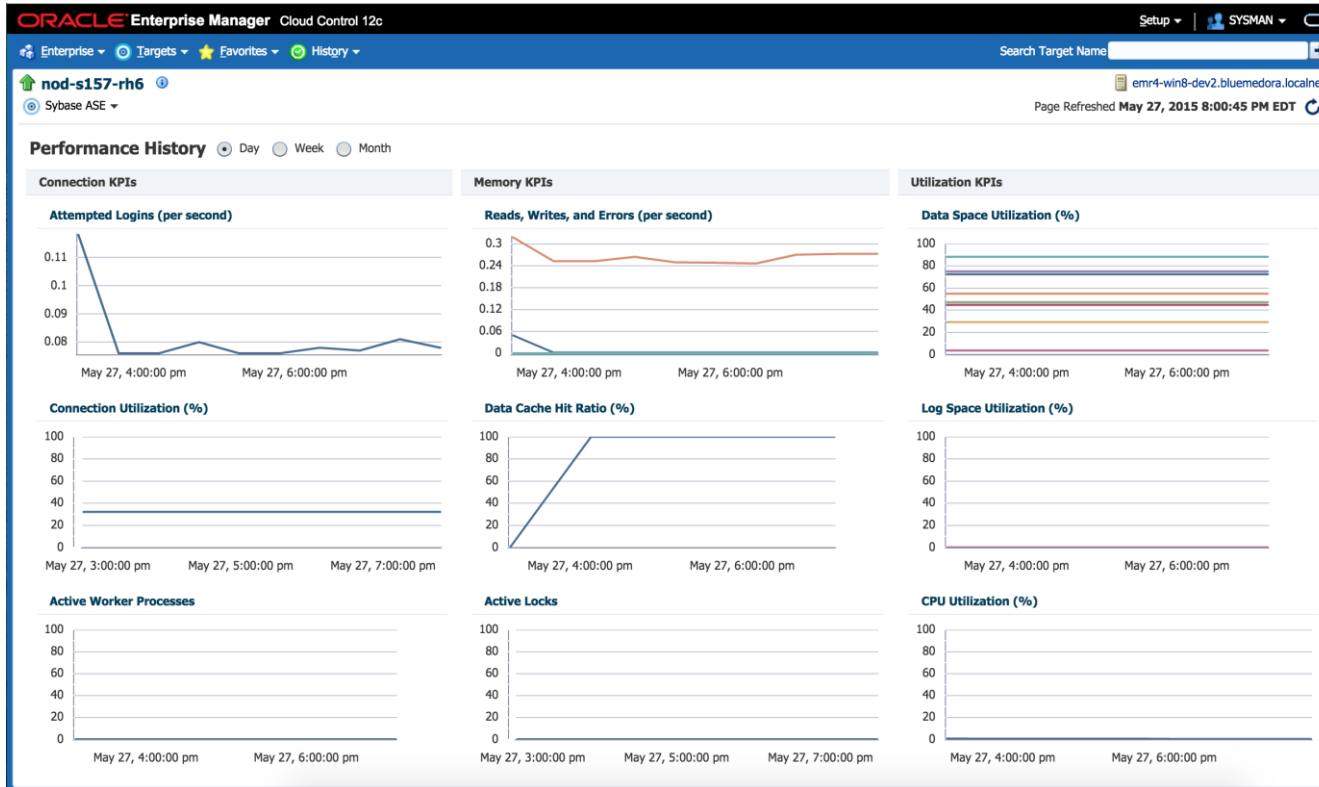


Identify Top Sybase ASE SQL Activity

- Identify “Top” SQL queries
- View by CPU Time or Execution Count
- Limit to last Day, Week or Month

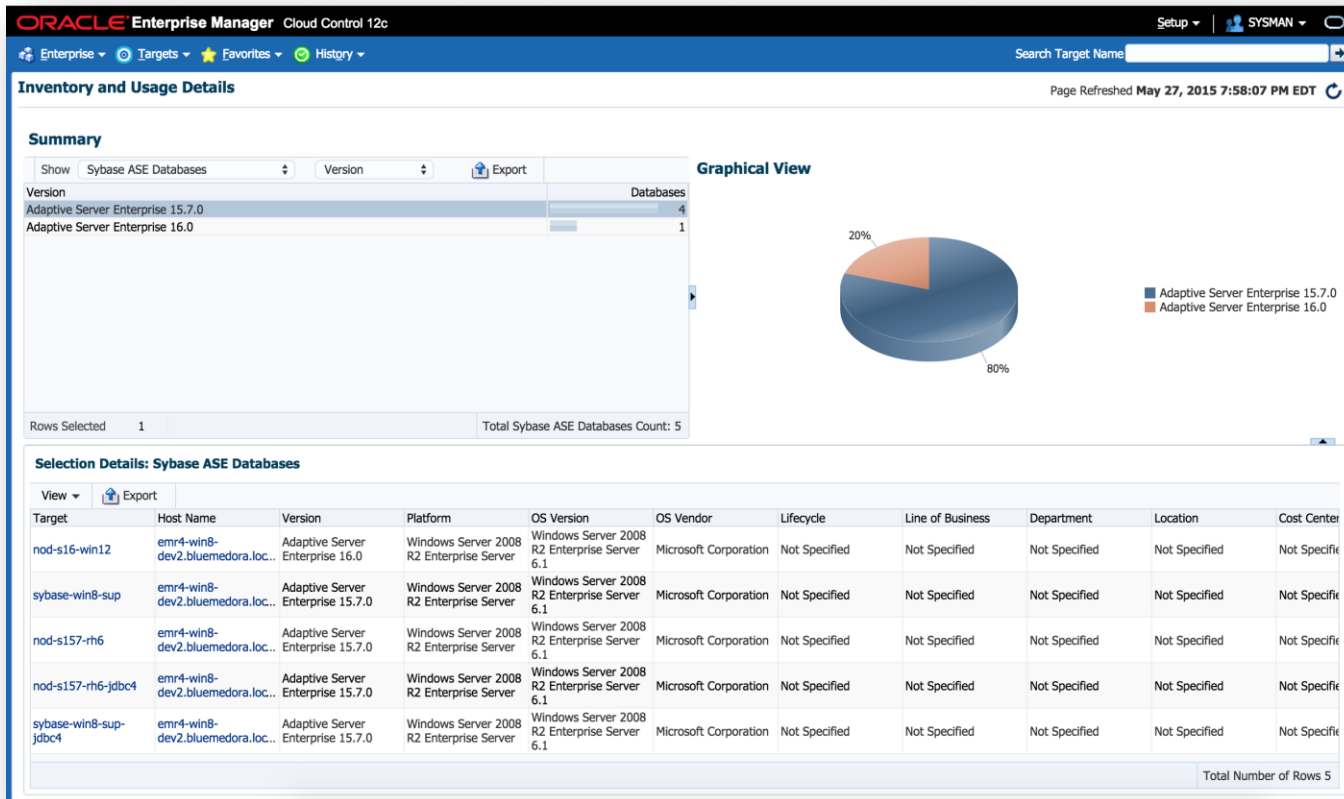


View Historical Key Performance Indicators



- Connection KPIs
- Memory KPIs
- Utilization KPIs
- View the performance history by Day, Week, or Month

Inventory and Usage Details



- Drill down multiple levels of inventory details
- View different trends in inventory counts charted

Metrics

Hundreds of performance and configuration metrics available for incident thresholds, reports, analysis and comparison.

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface. The top navigation bar includes 'Setup', 'SYSMAN', and a search field for 'Target Name'. The main content area is titled 'sybase-win8-sup' and shows a list of metrics on the left and a table of 'Open Metric Events' on the right. The 'Open Metric Events' table has columns for 'Metric Name', 'Severity', 'Message', 'Last Collected Timestamp', and 'Open Since'. Two events are listed: one with 'Error Severity' and another with 'Data Space Utilization(%) for sybssystemprocs'. Below this is a section for 'Top 5 alerting metrics (Last 7 days)' with columns for 'Metric Name', 'Critical Alert Count', and 'Warning Alert Count', which currently shows 'No data to display'.

Metric Name	Severity	Message	Last Collected Timestamp	Open Since
Error Severity	⊗	There are not enough 'user connections' available to start a new process. Retry when there are fewer active users, or ask your System Administrator to reconfigure ASE with more user connections..	n/a	26 days and 4 hours
Data Space Utilization(%) for sybssystemprocs	⊗	The database sybssystemprocs's data space utilization is 91.023. It has crossed warning (80) or critical (90) threshold.	May 4, 2015 4:48:03 PM EDT	31 days and 1 hour

Metric Name	Critical Alert Count	Warning Alert Count
No data to display.		

Drill Down Into Individual Sybase ASE Statistics

- Drill into hundreds of Sybase ASE metrics
- View associated alerts for particular metrics
- Choose to view the metric in real-time or customized historical views

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface. The top navigation bar includes 'Enterprise', 'Targets', 'Favorites', and 'History'. The main content area is titled 'sybase-win8-sup' and shows 'All Metrics'. A search bar is present. On the left, a tree view shows the 'Database Instances' metric selected. The main table displays the following data:

Database Name	Data Space Utilization(%)	Free Data Space (MB)	Free Log Space (MB)	Log Space Utilization(%)	Total Data Space (MB)	Total Log Space (MB)	Used Data Space (MB)	Used Log Space (MB)
master	50.92	12.76	0	0	26	0	13.24	0
model	54.83	2.71	0	0	6	0	3.29	0
pubs2	69.29	2.15	0	0	7	0	4.85	0
pubs3	76.67	1.4	0	0	6	0	4.6	0
sybmgmtdb	48.6	38.55	0	0	75	0	36.45	0
sybssystemdb	28.92	8.53	0	0	12	0	3.47	0
sybssystemprocs	91.02	15.44	0	0	172	0	156.56	0
tempdb	3.52	102.27	0	0	106	0	3.73	0

Additional information shown includes: Collection Schedule: Every 1 Hour; Upload Interval: Every Collection; Last Upload: May 4, 2015 4:48:03 PM EDT. A note at the bottom states: 'Data shown in above table is collected in real time.'

Comprehensive Sybase ASE Metric Thresholds

ORACLE Enterprise Manager Cloud Control 12c Setup | SYSMAN

Enterprise Targets Favorites History Search Target Name

nod-s157-rh6 Sybase ASE emr4-win8-dev1.bluedora.localnet

Sybase Adaptive Server Enterprise: nod-s157-rh6 > Metric and Collection Settings

Metric and Collection Settings Cancel OK

Metrics Other Collected Items

View Metrics with thresholds

Expand All | Collapse All

Metric	Comparison Operator	Warning Threshold	Critical Threshold	Corrective Actions	Collection Schedule	Edit
▼ nod-s157-rh6						
▼ Adaptive Server Engines Statistics					Every 30 Minutes	
Engine CPU (for System DB Services) Utilization (%)	>	80	90	None		
Engine CPU (for User Commands) Utilization (%)	>	80	90	None		
▼ Adaptive Server Statistics					Every 30 Minutes	
Sybase ASE (Overall) CPU Utilization (%)	>	80	90	None		
Sybase ASE (Overall) IO Utilization (%)	>	80	90	None		
▼ Database Instances					Every 1 Hour	
Data Space Utilization(%)	>	80	90	None		
Log Space Utilization(%)	>	80	90	None		
▼ Data Caches statistics					Every 60 Minutes	
Data Cache Hit Ratio (%)	<	80	60	None		
▼ Most Recent Error Messages					Every 1 Hour	
Error Severity	>=		17	None		
▼ Open Databases statistics					Every 1 Hour	
Is backup in progress	=		1	None		
Is last backup failed	=		1	None		

Sybase ASE Monitoring Templates

- Apply a subset of collection settings to multiple targets
- Standardize monitoring across your enterprise

ORACLE Enterprise Manager Cloud Control 12c

Setup | SYSMAN

Search Target Name

Page Refreshed May 5, 2015 10:39:28 AM EDT

Monitoring Templates

Monitoring Templates can be used to apply a subset of monitoring and collection settings to multiple targets. This allows you to standardize monitoring across your enterprise. When a Monitoring Template is applied to a target, any monitoring settings not specified in the Monitoring Template remain unaffected on the target.

Search

Name: Target Type: Sybase Adaptive Server Enterprise

Display Oracle Certified Templates

Actions: View, Create, Edit, Delete..., Apply..., Compare Settings..., View Past Apply Operations...

Name	Target Type	Owner	Status			Description
			Pending	Failed	Aborted	
Sybase ASE Efficiency Monitoring Template	Sybase Adaptive Server Ente...	SYSMAN	0	0	0	Recommended template for monitoring Sybase ASE efficiency.
Sybase ASE Traffic Monitoring Template	Sybase Adaptive Server Ente...	SYSMAN	0	0	0	Recommended template for monitoring Sybase ASE traffic.
Sybase ASE Utilization Monitoring Template	Sybase Adaptive Server Ente...	SYSMAN	0	0	0	Recommended template for monitoring Sybase ASE utilization.

Columns Hidden: 6

Total Rows: 3

Heterogeneous System Topology

Enterprise Manager helps you meet the challenges of managing the heterogeneous enterprise

- Comprehensive, top-down visibility into your infrastructure
- Rapid, accurate diagnosis & resolution of complex problems

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface. The main area shows a Configuration Topology for a 'DIL Heterogeneous System'. The topology includes three nodes: 'Sybase_ASE_Database', 'IBM_DB2_Database', and 'PluginDemo-SQLServer-2012cluster'. The 'PluginDemo-SQLServer-2012cluster' node is selected, and its properties are shown in the right-hand panel. The properties panel includes a 'Filter' section with 'Node Types' set to 'Hosts' and a 'Properties' section with 'General' tab selected. The 'General' tab shows the following information:

Property	Value
Up Since	Mar 27, 2014 6:59:51 PM
Availability (%)	99.94
Agent	em-win8-sr4.bluededora.localnet:3872
Host	em-win8-sr4.bluededora.localnet
Member of	DIL Heterogeneous System

Incident Manager For Sybase ASE Plug-In

ORACLE Enterprise Manager Cloud Control 12c Setup | SYSMAN

Enterprise Targets Favorites History Search Target Name

nod-s16-rh6-2_REMOTE emr4-oel6-qa.bluededora.localnet

Sybase ASE Page Refreshed May 5, 2015 9:50:35 AM EDT

Incident Manager: All open incidents

Views Search

- Out-of-box
 - My open incidents and problems
 - Unassigned incidents
 - Unacknowledged incidents
 - Escalated incidents
 - All open incidents
 - Unassigned problems
 - All open problems
 - Events without incidents

Actions View View search criteria Acknowledge Clear ...

Severity	Summary	Target	Priority	Status	Last Updated	Owner	Ackno	Escalaf	Type	Category
✖	Can't send to site 'NODS16RH62_XP'..	nod-s16-r...	None	New	May 5, 2015 9:29:30 ...	-	No	No	Incident	Error
✖	Can't send to site 'NODS16RH62_XP'..	nod-s16-r...	None	New	Apr 22, 2015 8:28:13 ...	-	No	No	Incident	Error

Rows Selected 1 Columns Hidden 22 Row count

✖ Can't send to site 'NODS16RH62_XP'..

Unassigned, Not acknowledged

General Events Notifications My Oracle Support Knowledge All Updates Related Events Related Metrics

Incident Details

ID 206

Metric Severity

Metric Group monErrorLog

KeyVal 15/2031632/15

EngineNumber 0

ErrorNumber 7215

Time

Target nod-s16-rh6-2_REMOTE (Sybase Adaptive Server Enterprise) ⓘ

Incident Created May 5, 2015 9:29:30 AM EDT

Last Updated May 5, 2015 9:29:30 AM EDT

Summary Can't send to site 'NODS16RH62_XP'..

Internal Event monErrorLog:Severity

Name

Event Type Metric Alert

Category Error

Tracking Acknowledge Clear ... Add Comment ... Manage ... More

Escalated No Owner -

Priority None Acknowledged No

Status New

Last Incident created by rule (Name = Incident management rule set for all targets, Comment Create incident for critical metric alerts [System generated rule]..: on May 5, 2015 9:29:30 AM EDT

This incident will not be automatically cleared. You can clear by clicking the Clear button above.

Guided Resolution

Diagnostics	Actions
<ul style="list-style-type: none"> Problem Analysis View topology View recent configuration changes View Metric Help 	<ul style="list-style-type: none"> Edit Thresholds

Metric Extensions

Missing a metric your team depends on?

Do you want to integrate custom scripts?

Use Oracle Enterprise Manager's Metric Extension capabilities to easily expand and customize the Sybase ASE solution with a convenient UI-based development workflow.

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface for configuring a new metric extension. The page title is 'Metric Extensions' and the user is identified as 'SYSMAN'. The configuration process is shown in a multi-step wizard, currently on 'Step 1 of 6: General Properties'. The main heading is 'Create New: General Properties'. Below this, a brief instruction states: 'Specify the basic properties for the metric extension. The default collection can be overridden on a target instance basis in the target's Metric and Collection Settings page.' The configuration is divided into two sections: 'General Properties' and 'Collection Schedule'. In the 'General Properties' section, the 'Target Type' is set to 'Sybase Adaptive Server Enterprise'. The 'Name ME\$' field contains 'Sybase_New_Metric', with a note indicating that names can only contain alphanumeric characters and specific special characters. The 'Display Name' is 'My New Sybase Metric'. The 'Adapter' is 'OS Command - Multiple Columns', with a checked option for 'Tokenizes OS command output using user-specified delimiter'. A 'Description' text area is present but empty. The 'Collection Schedule' section shows 'Data Collection' set to 'Enabled', 'Use of Metric Data' set to 'Alerting and Historical Trending', 'Upload Interval' set to '1' collection, and 'Frequency' set to 'By Minutes' with a 'Repeat Every' interval of '15' minutes.

ORACLE Enterprise Manager Cloud Control 12c

Metric Extensions

General Properties Adapter Columns Credentials Test Review

Create New: General Properties

Back Step 1 of 6 Next Finish Cancel

Specify the basic properties for the metric extension.
The default collection can be overridden on a target instance basis in the target's Metric and Collection Settings page.

General Properties

- * Target Type: Sybase Adaptive Server Enterprise
- * Name ME\$: Sybase_New_Metric
A Metric Extension Name can only contain alpha-numeric characters and the following non leading special characters : (,), ', ' , ;
- * Display Name: My New Sybase Metric
- * Adapter: OS Command - Multiple Columns
Tokenizes OS command output using user-specified delimiter
- Description: [Empty text area]

Collection Schedule

- Data Collection: Disabled Enabled
- Use of Metric Data: Alerting Only Alerting and Historical Trending
- Upload Interval: 1 Collections
- Frequency: Collection Frequency: By Minutes
Repeat Every: 15 Minutes

Latest Configuration of Sybase ASE

- Sybase version and fix pack level
- Platform and OS details
- Relevant Sybase Charsets Information
- Disk I/O Configuration Parameters
- And Much More

The screenshot displays the Oracle Enterprise Manager Cloud Control 12c interface for a Sybase ASE instance. The top navigation bar shows the instance name 'nod-s16-rh6-2_REMOTE' and the user 'SYSMAN'. The main content area is titled 'Latest Configuration' and includes a search bar for 'System Databases'. Below the search bar, a table lists the system databases with the following columns: Database Name, Database Size, Owner Name, Database ID, Date of Creation, and Status.

Database Name	Database Size	Owner Name	Database ID	Date of Creation	Status
master	26.0 MB	sa	1	Apr 03, 2015	full
model	6.0 MB	sa	3	Apr 03, 2015	full
pubs2	7.0 MB	sa	4	Apr 03, 2015	full
pubs3	6.0 MB	sa	5	Apr 03, 2015	full
sybmgmtdb	76.0 MB	sa	31515	Apr 03, 2015	full
sybssystemdb	12.0 MB	sa	31513	Apr 03, 2015	full
sybssystemprocs	196.0 MB	sa	31514	Apr 03, 2015	full
tempdb	106.0 MB	sa	2	Apr 22, 2015	no_recovery

The status bar at the bottom indicates 'Rows Selected: 1' and 'Total Number of Rows: 8'. The page was refreshed on May 5, 2015, at 9:55:18 AM EDT.

Compare Sybase ASE Configurations

ORACLE Enterprise Manager Cloud Control 12c Setup | SYSMAN

Enterprise | Targets | Favorites | History | Search Target Name

Compare Result

Page Refreshed **May 10, 2015 8:40:07 PM EDT**

Result for job CONFIGURATION COMPARISON JOB SUN MAY 10 2015 20:39:51 EDT

Comparison Job Activity >

Comparison Details

Template No Template

First Configuration **sybase-win8-sup (Sybase Adaptive Server Enterprise)** Second Configuration **nod-s157-rh6 (Sybase Adaptive Server Enterprise)**
 Collected May 9, 2015 11:02:28 PM (Latest Configuration) Collected May 10, 2015 4:36:43 PM (Latest Configuration)

Compare Save Mode Save Only Differences

Job Details

Show Differences Only [Export All Differences](#)

Target Properties

- Sybase ASE Version
- System Listeners
- Maximum Number of Connections
- System Databases
- Installed Scripts
- Charsets Information
- Component Integration Services C
- DTM Administration Configuration
- Disk I/O Configuration Parameters
- Error Log Configuration Parameter
- Extended Stored Procedure Config
- General Information Configuration
- Java Services Configuration Pararr
- Languages Configuration Paramet
- Lock Manager Configuration Pararr
- Memory Use Configuration Param
- Meta-Data Caches Configuration P
- Monitoring Configuration Paramet

Result	Property Name
	JDBC URL (Example: jdbc:sybase:Tds:<host>:<port>)

Configuration Properties

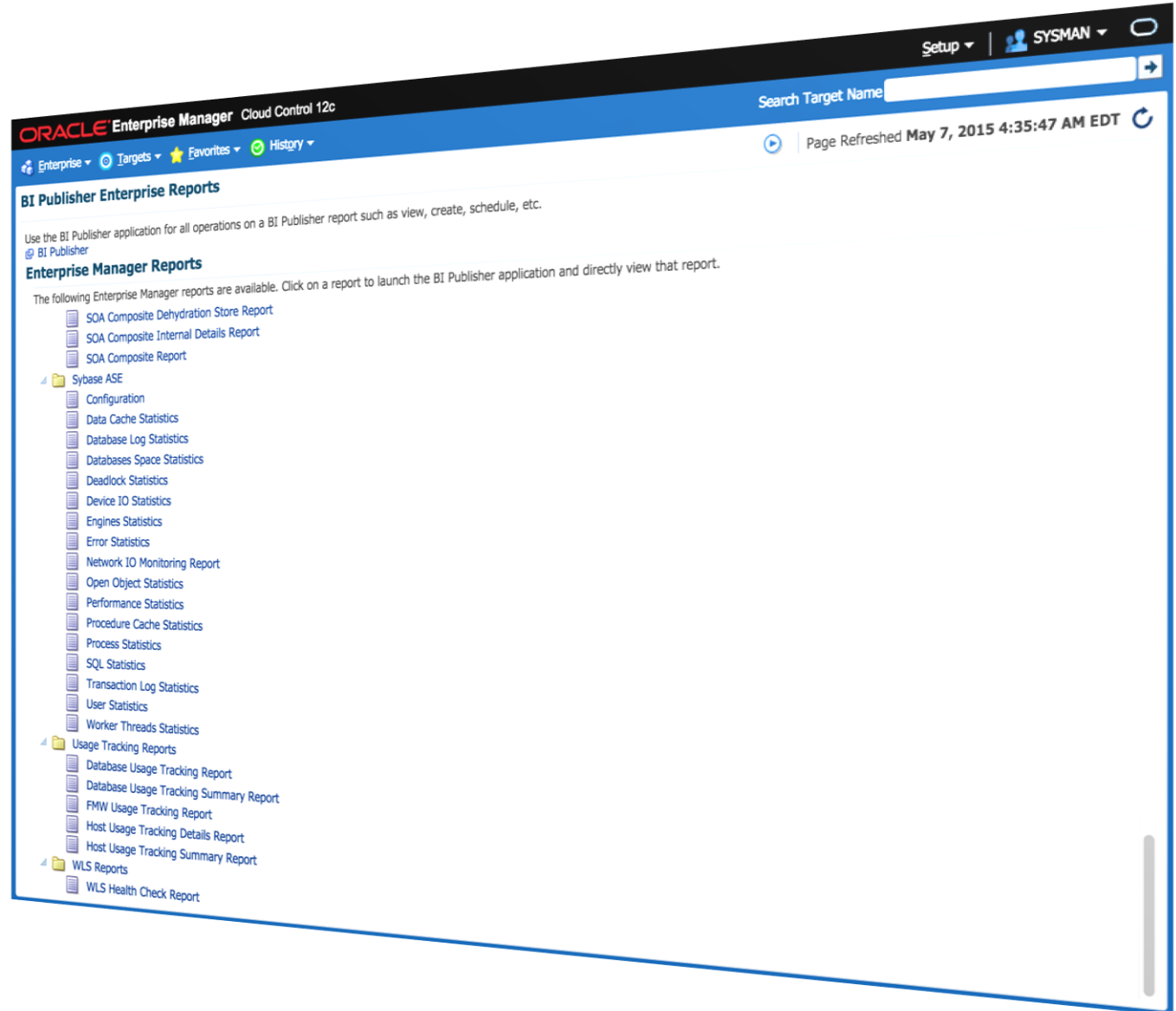
Result	Configuration Property Name	First	Second
	Property Value	jdbc:sybase:Tds:sybase-win8-sup.bluedora.localnet:2500	jdbc:sybase:Tds:nod-s157-rh6.bluedora.localnet:5000

Reports

Comprehensive out-of-the-box reports

Includes 17 Sybase ASE reports including reports focused on:

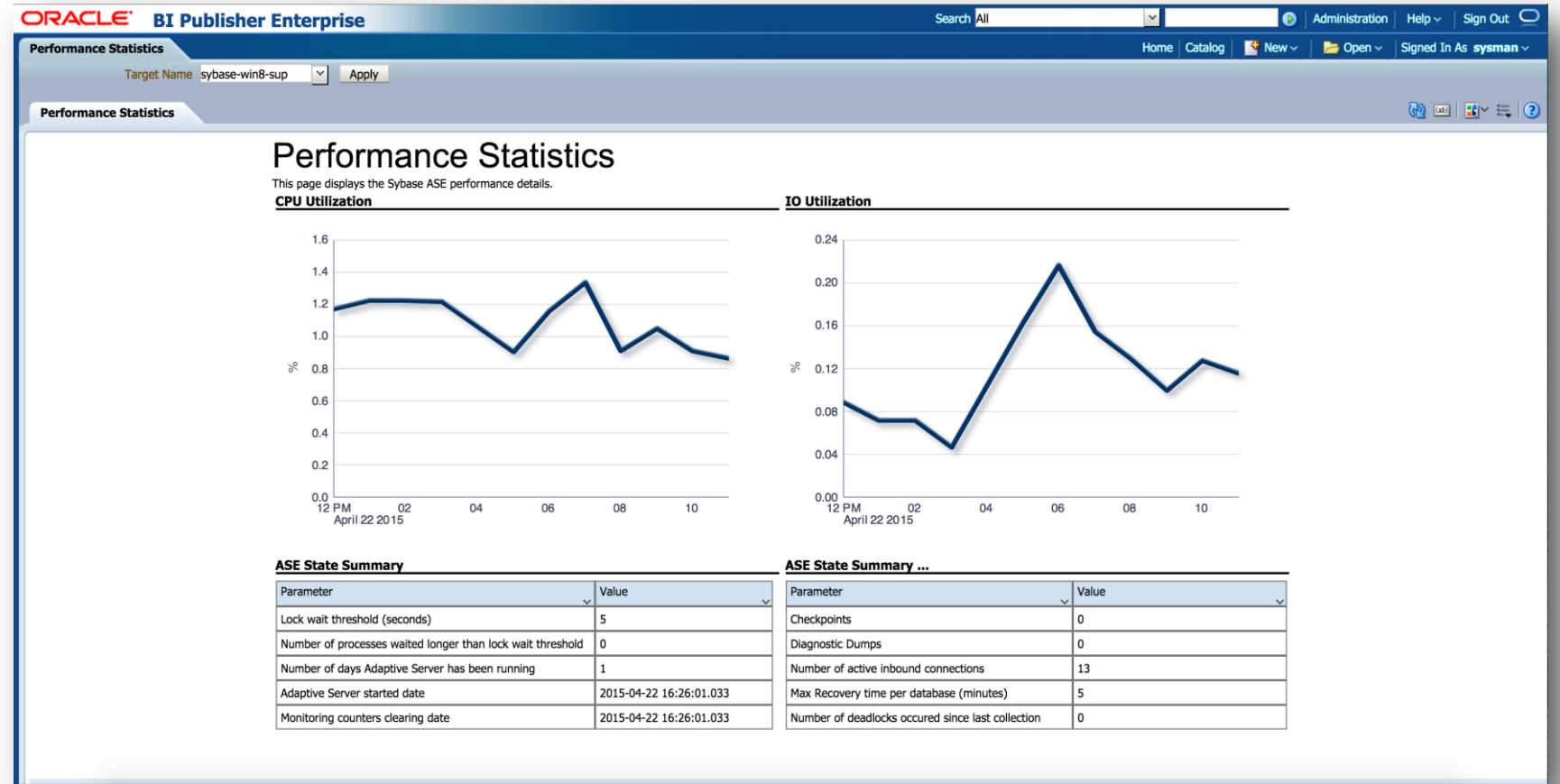
- Performance Monitoring
- Configuration
- Storage



Reports

Performance

- In-depth performance reports
- View the SQL query statements consuming the most resources or taking the longest to execute



Reports

Configuration

- In-depth configuration reports
- Reports for database and system configuration
- At-a-glance comparison of key database configuration values

The screenshot displays the Oracle BI Publisher Enterprise Configuration page for target 'sybase-win8-sup'. The page is divided into several sections:

- Sybase ASE Version:** Shows the current version as 'Adaptive Server Enterprise/15.7.0/EBF 20374 SMP ESD#02 /P/X64/Windows Server/ase157esd2/3109/64-bit/OPT/Sat Jul 07 01:16:39 2012'.
- System Listeners:** A table showing the ASE Server Name and Port (sybase-win8-sup 2500) and the Network Protocol (nlwsock).
- Information About Databases:** A table listing database names and their owners.
- Installed Scripts:** A table listing script names and their versions.
- Memory Use Configuration Parameters:** A table comparing Default Value, Memory Used, Config Value, Run Value, Unit, and Type for various memory-related parameters.
- Metadata Caches Configuration Parameters:** A table comparing Default Value, Memory Used, Config Value, Run Value, Unit, and Type for various metadata cache parameters.

Database Name	Owner
master	sa
model	sa
pubs2	sa
pubs3	sa
sybmgmtdb	sa
sybssystemdb	sa
sybssystemprocs	sa
tempdb	sa

Script Name	Version
ODBC MDA Scripts	15.7
OLEDB MDA Scripts	15.7
installcommit	15.7
installjdbc	JCor 11.3

Parameter Name	Default Value	Memory Used	Config Value	Run Value	Unit	Type
CIPC large message pool size	2048	0	2048	2048	number	static
CIPC regular message pool size	32768	0	32768	32768	number	static
DMA object pool size	16384	0	16384	16384	number	static
additional network memory	0	0	0	0	bytes	dynamic
allocate max shared memory	0	0	0	0	switch	dynamic
allow resource limits	0	#4	0	0	switch	static
audit queue size	100	2	100	100	number	dynamic
average cap size	200	0	200	200	bytes	static
caps per ccb	50	0	50	50	number	static
compression memory size	0	152	0	0	memory pages(2k)	dynamic

Parameter Name	Default Value	Memory Used	Config Value	Run Value	Unit	Type
number of open databases	12	6124	12	12	number	dynamic
number of open indexes	500	1598	500	500	number	dynamic
number of open objects	500	996	500	500	number	dynamic
number of open partitions	500	673	500	500	number	dynamic
open index hash spinlock ratio	100	0	100	100	ratio	dynamic
open index spinlock ratio	100	0	100	100	ratio	dynamic
open object spinlock ratio	100	0	100	100	ratio	dynamic
partition groups	1024	556	1024	1024	number	dynamic
partition spinlock ratio	10	12	10	10	ratio	dynamic

Reports

Storage

- Schedule a report to identify databases storage utilization
- Identify file growth and location

ORACLE BI Publisher Enterprise Search All Administration Help Sign Out

Databases Space Statistics Target Name sybase-win8-sup Apply

Databases Space Statist...

Databases Space Statistics

This page displays the databases space related reports.

Top 10 Databases by Data Space Utilization

Database Name	Total Data Space (MB)	Used Data Space (MB)	Free Data Space (MB)	Total Log Space (MB)	Used Log Space (MB)	Free Log Space (MB)	Data Space Utilization (%)	Log Space Utilization (%)
sybsystemprocs	172	156.56	15.44	0	0	0	91.02	0
pubs3	6	4.6	1.4	0	0	0	76.67	0
pubs2	7	4.85	2.15	0	0	0	69.29	0
model	6	3.29	2.71	0	0	0	54.83	0
master	26	13.24	12.76	0	0	0	50.92	0
sybmgmtdb	75	36.45	38.55	0	0	0	48.6	0
sybsystemdb	12	3.47	8.53	0	0	0	28.92	0
tempdb	106	3.77	102.23	0	0	0	3.56	0







Top 10 Databases by Log Space Utilization

Database Name	Total Data Space (MB)	Used Data Space (MB)	Free Data Space (MB)	Total Log Space (MB)	Used Log Space (MB)	Free Log Space (MB)	Data Space Utilization (%)	Log Space Utilization (%)
master	26	13.24	12.76	0	0	0	50.92	0
model	6	3.29	2.71	0	0	0	54.83	0
tempdb	106	3.77	102.23	0	0	0	3.56	0
sybsystemprocs	172	156.56	15.44	0	0	0	91.02	0
pubs3	6	4.6	1.4	0	0	0	76.67	0
sybmgmtdb	75	36.45	38.55	0	0	0	48.6	0
sybsystemdb	12	3.47	8.53	0	0	0	28.92	0
pubs2	7	4.85	2.15	0	0	0	69.29	0

Plug-ins: Where do you get them?

Self Update: Oracle Provided Content

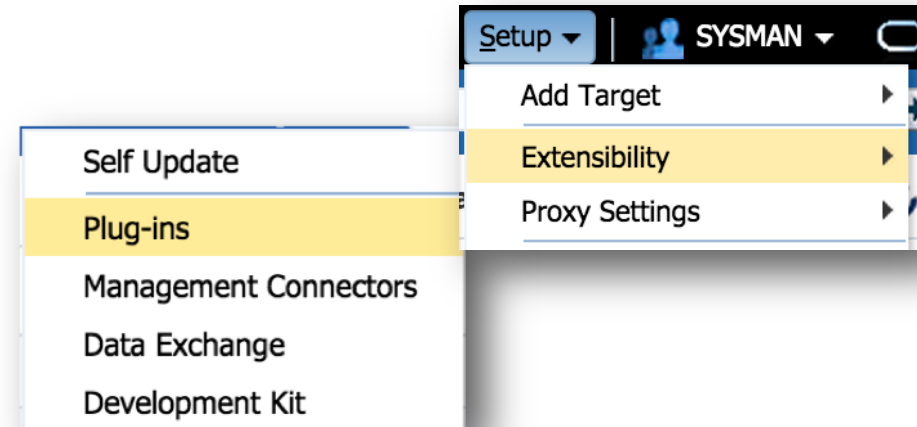
- Self Update
- Download the Sybase ASE plug-in directly from Self Update
- Delivers new features and updates
- Single console to search, download and manage target plug-ins
- Proactive notification for Oracle supplied updates if running in connected mode
- Supports Online & Offline modes
- Allows import of non-Oracle entities

Plug-in Updates						
Actions ▾		Download	Apply	Plug-in	Search Description	
Status	OS Platform	Plug-in Name	Re	Version	Vendor	
 Available	Generic Platform	Oracle E-Business ...	0	12.1.0.2.0	ORACLE	
 Available	Generic Platform	Oracle E-Business ...	0	12.1.0.1.0	ORACLE	
 Applied	Generic Platform	Sybase ASE Datab...	0	12.1.0.4.0	ORACLE	
 Available	Generic Platform	Oracle Secure Glo...	0	12.1.0.1.0	ORACLE	
 Available	Generic Platform	Oracle Secure Glo...	0	12.1.0.1.0	ORACLE	
 Available	Generic Platform	MySQL Database	0	12.1.0.2.0	ORACLE	

Plug-In Manager

Single window Solution for all (Un)Deployment

- Integrated with Self Update
- Plug-ins must be deployed to OMS before agents
- Download, Deploy and Upgrade Plug-Ins across OMS and agent
- Option to resume the plug-in deployment. It will start from failed step.



This page lists the plug-ins available, downloaded, and deployed to the Enterprise Manager system. Use this page to deploy or undeploy plug-ins.

Name	Version			Management Agent with Plug-in	Description
	Latest Available	Latest Downloaded	On Management Server		
> Applications					
> Cloud					
> Databases					
IBM DB2 Database	12.1.0.3.0	12.1.0.2.0		0	Enterprise Manager for DB2. Plugin provides comprehensive monitoring of DB2 environments.
Microsoft SQLServer Database	12.1.0.5.0	12.1.0.4.0		0	Enterprise Manager for Microsoft SQL Server
MySQL Database	12.1.0.2.0			0	Enterprise Manager for MySQL Database
Oracle Database	12.1.0.7.0	12.1.0.6.0	12.1.0.6.0	0	Enterprise Manager for Oracle Database provides comprehensive management for Oracle Database and related targets such as Real Application Cluster, Automatic Storage Management (ASM) etc.
Oracle TimesTen In-Memory Database	12.1.0.3.0			0	Enterprise Manager for Oracle TimesTen In-Memory Database
Sybase ASE Database	12.1.0.4.0	12.1.0.4.0	12.1.0.4.0	1	Enterprise Manager for Sybase ASE. Plugin provides comprehensive monitoring Sybase ASE Environments.
> Engineered Systems					
> Middleware					
> Servers, Storage and Network					

For More Information...

- The Sybase ASE Plug-in is listed in the **Oracle Technology Global Price List** under: **System Monitoring Plug-in for Non Oracle Databases**
- The **Oracle Global Price List** can be found at: <http://www.oracle.com/us/corporate/pricing/technology-price-list-070617.pdf>
- Latest Sybase ASE Plug-in documentation for installation, troubleshooting and monitoring metric reference: http://docs.oracle.com/cd/E24628_01/install.121/e25214/toc.htm