Oracle Enterprise Manager 12c

Sybase ASE Database Plug-in

May 2015

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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)

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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

Event and Service Desk Connectors

Oracle Plug-ins

Third Party Plug-ins

RESOLVE DEVELOP DIAGNOSE TEST MONITOR DEPLOY OPERATE

Applications
Middleware
Database
Operating System
Virtual Machine
Servers
Storage

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Sybase ASE Plug-In
Revamped for Better Performance Analysis and Monitoring

NEW

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!

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**

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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

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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
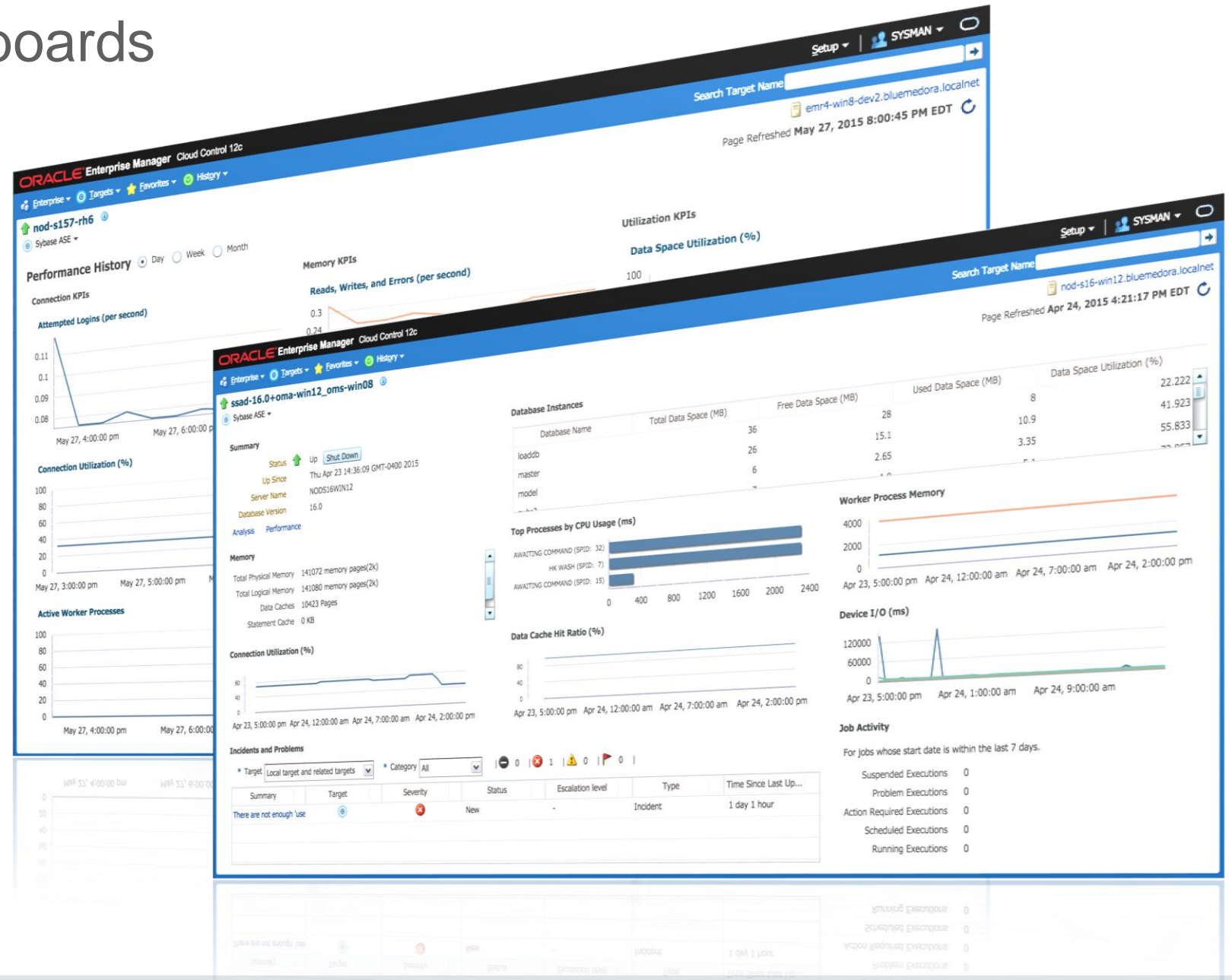
New Sybase ASE Focused Dashboard Views

- 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

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
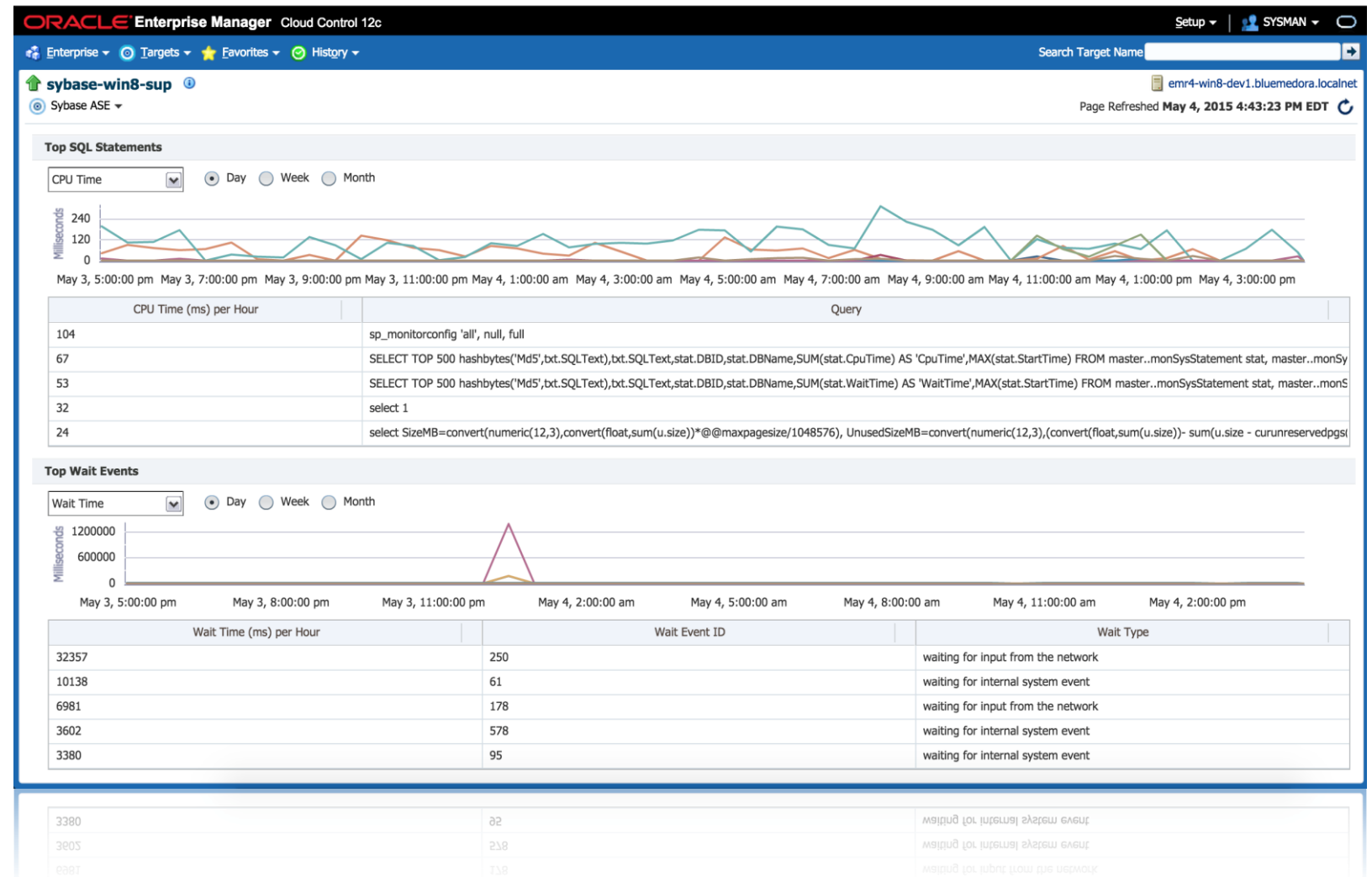
Identify Top Sybase ASE SQL Activity

- Identify "Top" SQL queries

- View by CPU Time or Execution Count

- Limit to last Day, Week or Month

Top SQL Statements

CPU Time ▾   ● Day   ○ Week   ○ Month

CPU Time
Wait Time
Memory

Top SQL Statements

CPU Time ▾   ○ Day   ● Week   ○ Month

CPU Time (ms) per Hour	Query
458	StartTime, EndTime, CONVERT(VARCHAR, ProcedureID) + '/' + CONVERT(VARCHAR, PlanID) + '/' + CONVERT(VA
458	select distinct TOP 500 SPID, KPID, DBID, ProcedureID, PlanID, BatchID, ContextID, LineNumber, CpuTime, WaitTime, MemUsageKB, PhysicalReads, LogicalR
242	sp_configure 'number of open databases'
202	select COUNT(*) FROM master..syslocks WHERE type = 5 OR type = 6 OR type = 7
102	select TOP 500 SPID, KPID, ServerUserID,suser_name(ServerUserID), BatchID, SequenceInBatch, CONVERT(VARCHAR, ServerUserID) + '/' + CONVERT(VARCHAR, B

View Historical Key Performance Indicators
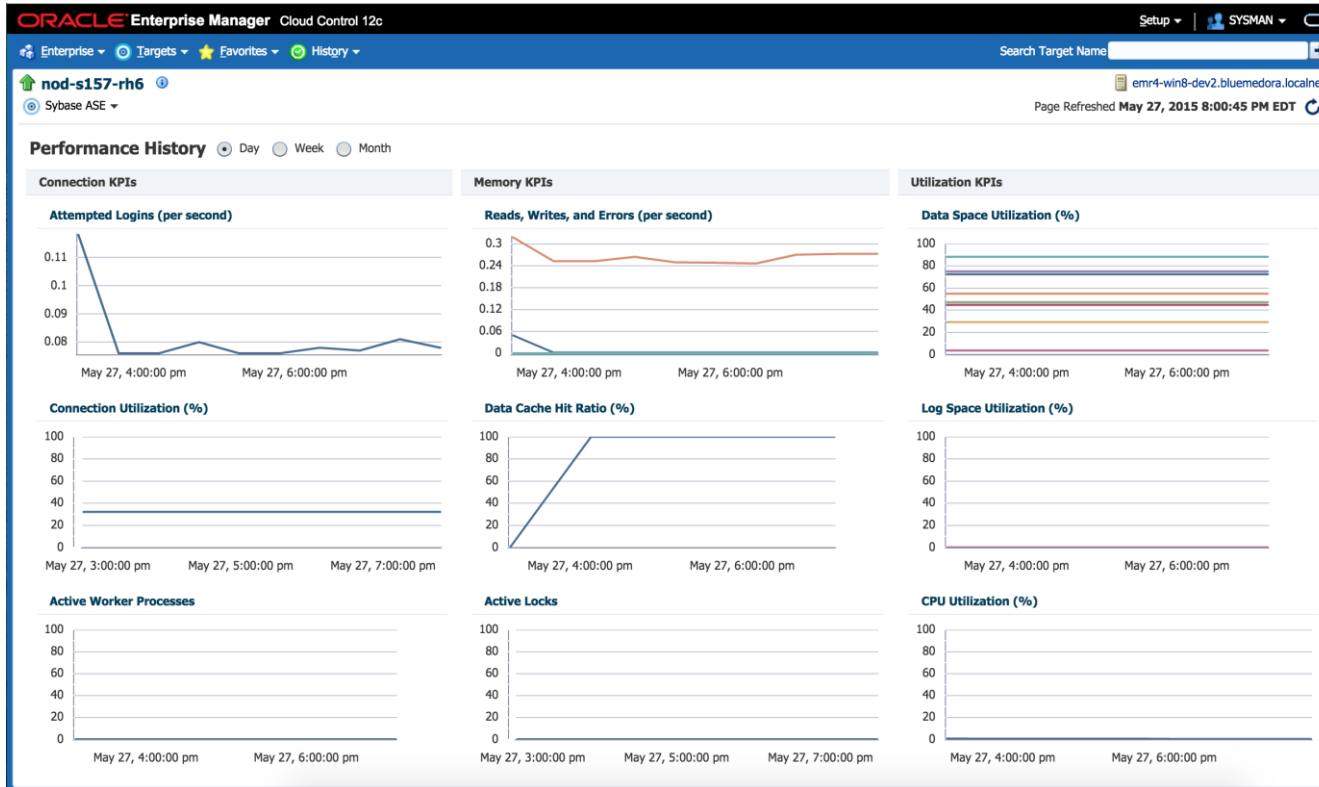
- Connection KPIs

- Memory KPIs

- Utilization KPIs

- View the performance history by Day, Week, or Month

Inventory and Usage Details
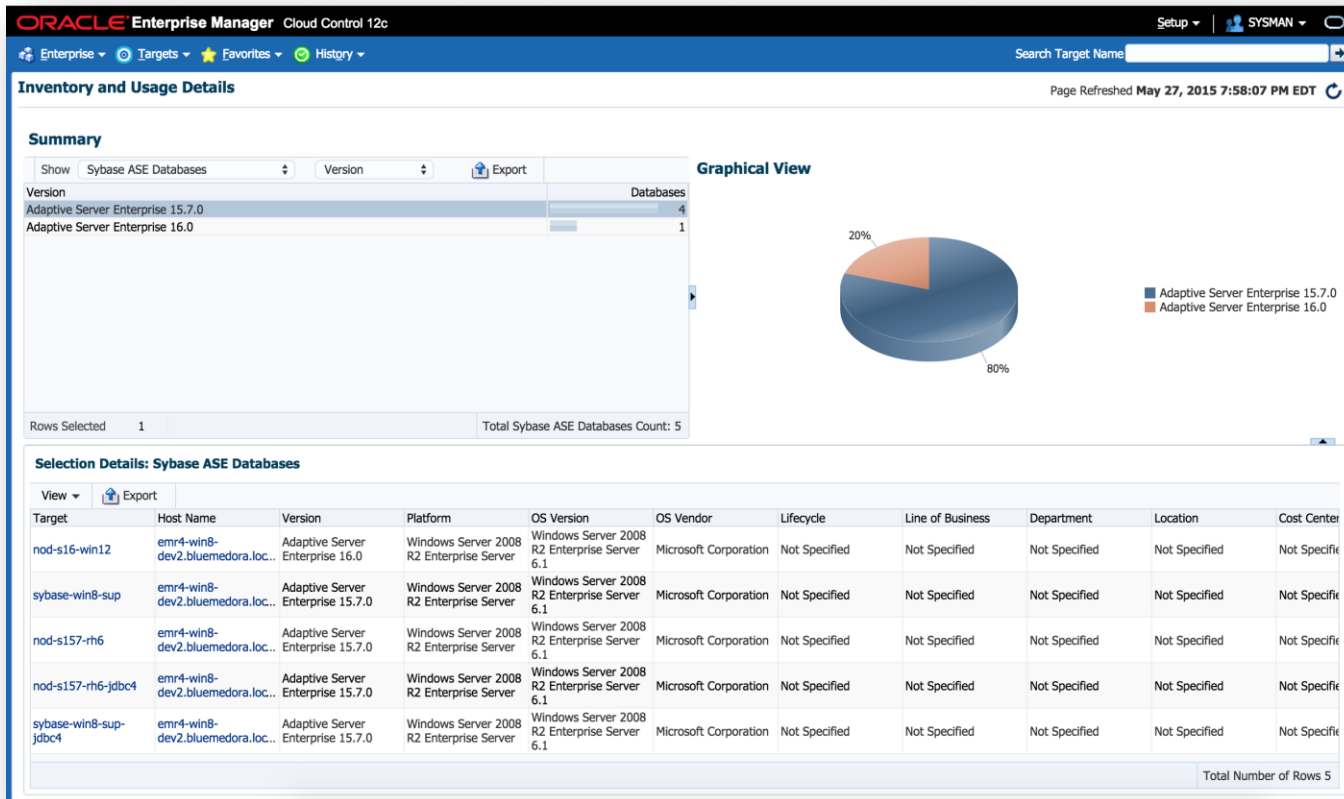
- Drill down multiple levels of inventory details

- View different trends in inventory counts charted

Metrics

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

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

Comprehensive Sybase ASE Metric Thresholds

Sybase ASE Monitoring Templates

- Apply a subset of collection settings to multiple targets

- Standardize monitoring across your enterprise

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**

Incident Manager For Sybase ASE Plug-In

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.

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

Compare Sybase ASE Configurations

Reports

Comprehensive out-of-the-box reports

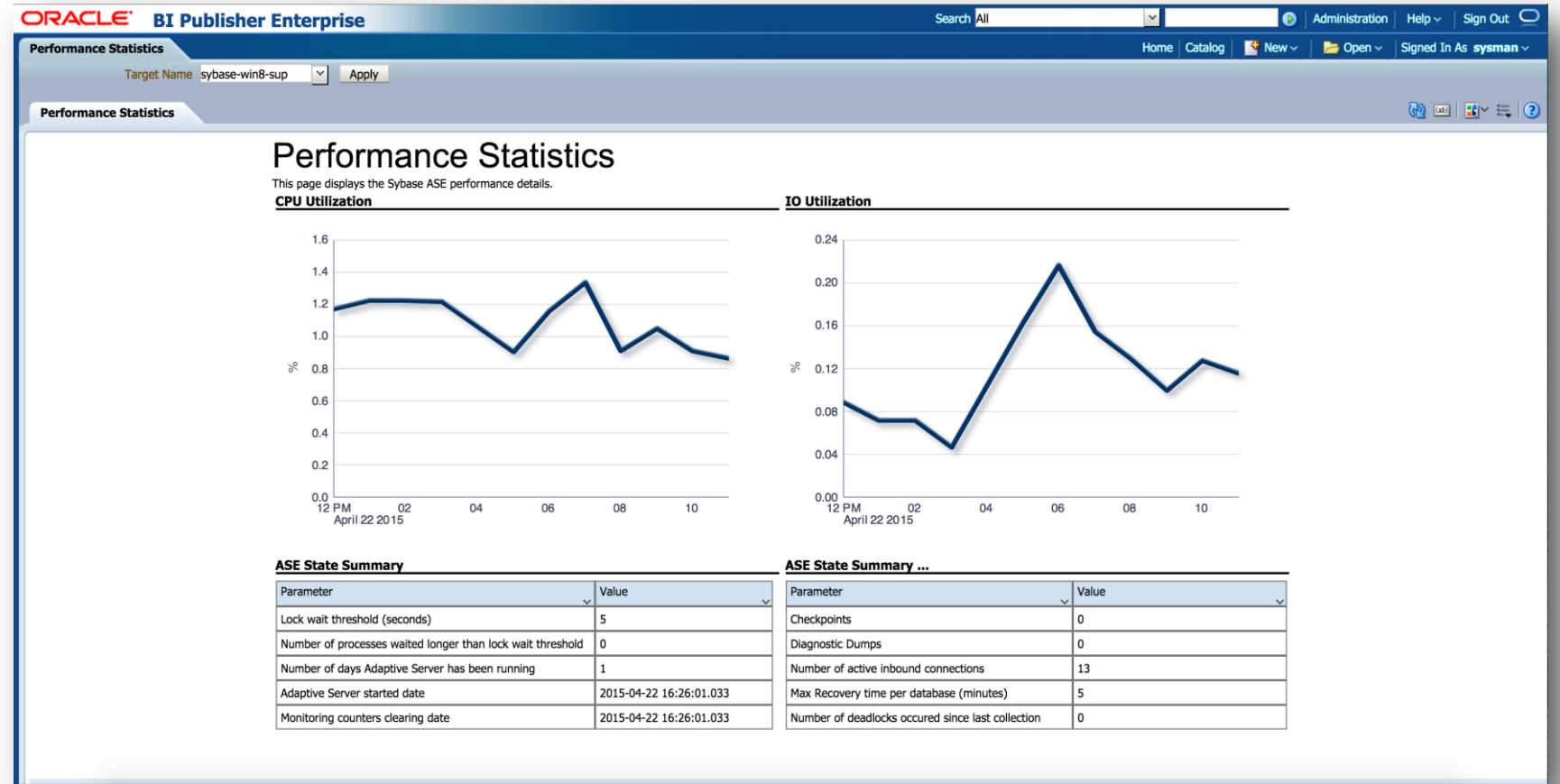Includes 17 Sybase ASE reports including reports focused on:

- Performance Monitoring

- Configuration

- Storage
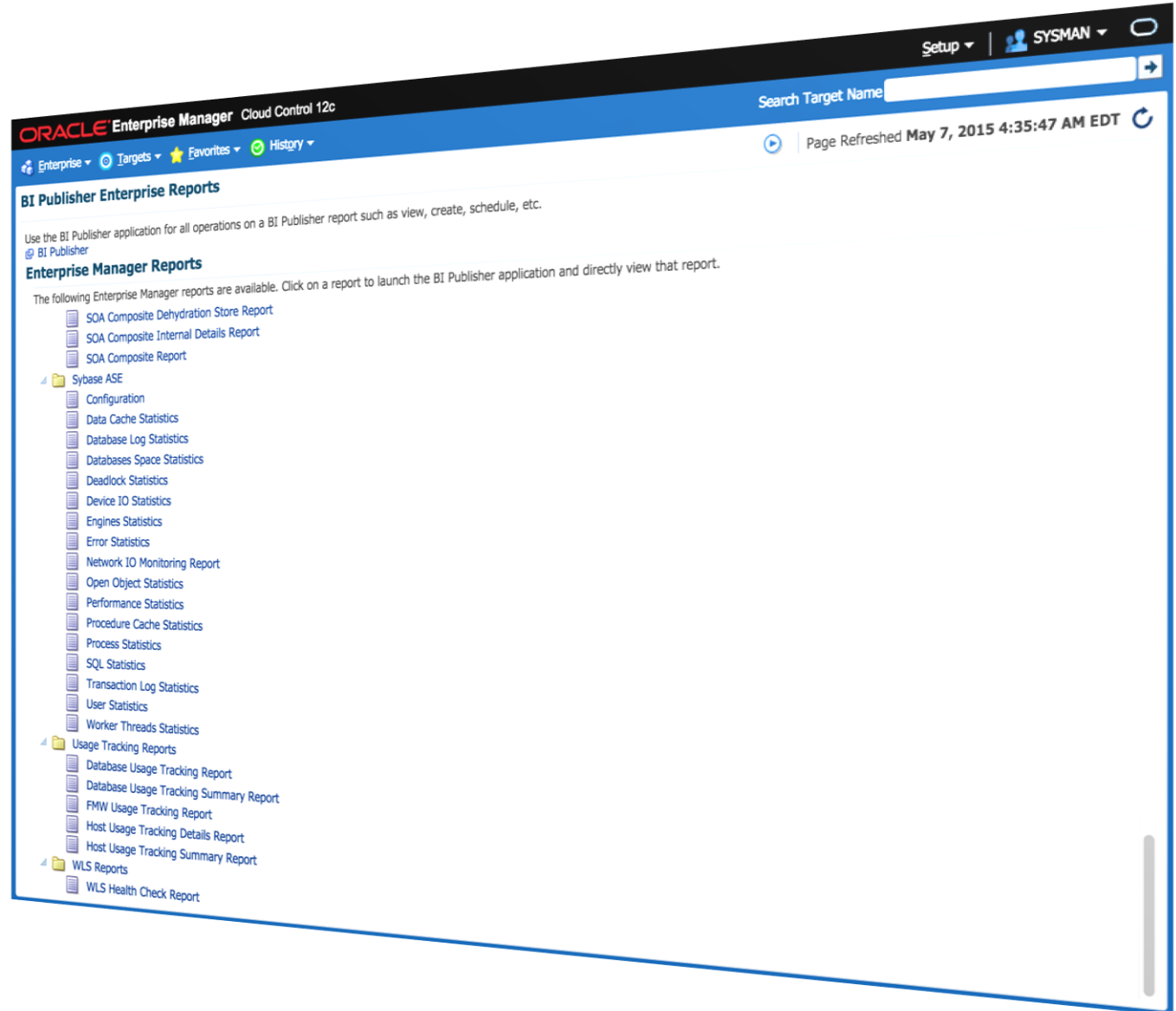
Reports
Performance

- 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

Reports
Storage

- Schedule a report to identify databases storage utilization

- Identify file growth and location

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 [   ] →

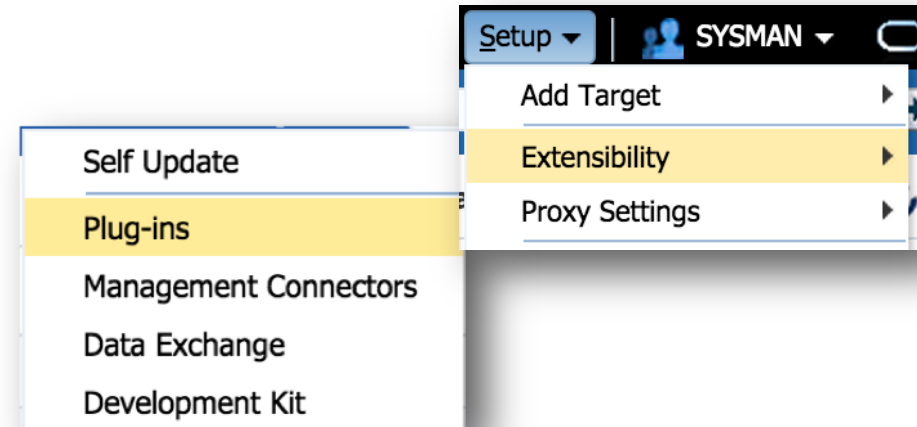| Status	OS Platform	Plug-in Name	Re	Version	Vendor
Available	Generic Platform	Oracle E-Business ...	0	12.1.0.2.0	ORACLE
Available	Generic Platform	Oracle E-Business ...	0	12.1.0.1.0	ORACLE
Applied	Generic Platform	Sybase ASE Datab...	0	12.1.0.4.0	ORACLE
Available	Generic Platform	Oracle Secure Glo...	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

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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.

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

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