



dbWatch Control Center



Document Changes

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CHAPTER 1 INTRODUCTION

Today's enterprises are driven by data, underlying all critical enterprise applications. The vast majority of these data are stored in various databases. Which is often a complex mix of different versions of Oracle, MS SQL Server, MySQL and other relational databases.

Today we expect all enterprise systems to be available 24x7 and with acceptable response times. Downtime can directly affect revenue and ability to service customers. Downtime or Loss of data is not acceptable. As criticality, volume and demands grows, so do the cost of keeping these databases up to the task. The task of managing these databases have become a balancing act, attempting to balance cost, performance, flexibility and risk.

dbWatch Control Center is a complete database management solution designed for efficient proactive monitoring and management of large database estates, typically found in manufacturing, retail, government, healthcare, managed service providers or other industries.

dbWatch Control Center allows *database administrators* to manage a large number of databases on different database platforms with a minimum of time and effort, and at the same time offer the flexibility, scalability and functionality required in enterprise environments.

dbWatch Control Center give *IT managers* the complete overview and tools to manage resources optimally, plan ahead and produce all reports and statistics needed for internal reporting and planning.

dbWatch Control Center is designed from the ground up to meet the challenges of today's service providers and IT departments, facing the challenge of managing a large number of old legacy and new database server instances running on multiple platforms and versions. The distributed architecture is designed to be maintenance-free, scale from monitoring a few instances to managing thousands, automate all routine tasks, provide full resource overview and control and make the DBA's as efficient and productive as possible.

dbWatch Control Center provides the insight and analysis required by managers to plan, report, consolidate and optimize hardware use and software license cost. Fewer tools means less cost and time spent on tools and training. By optimizing resources and making DBA's more efficient, costs are kept under control. Full insight and control reduce risks for unwanted service interruption or degradation and simplifies and improves reporting.

dbWatch Control Center offers:

- Complete solution for database monitoring and management on the most common platforms and cloud databases.
- Increasing DBA efficiency up to 20% - 50% or more
- Scalable from a handful to thousands of instances
- Global views to give overview of the entire database estate, resources and performance
- Enable proactive monitoring and management of complex database environments.
- Automation of all monitoring and routine maintenance tasks
- Oracle and MS SQL Server licensing control and optimization
- Provide a flexible platform for customization to allow each enterprise to extend and customize dbWatch Control Center to suit their specific requirements. Full source for all task and procedures included
- Fast ROI. Control Center can be deployed in hours and is easy to learn so you can quickly start benefitting from improved performance and efficiency
- Offers role-based access controls and AD, Kerberos and encrypted connections for government, healthcare, financial and others who require stringent security

CHAPTER 2 DBWATCH FOR IT MANAGERS

Being responsible for operations, you are under constant pressure to increase productivity, control costs, improve quality while minimizing risks. You need solutions that will adapt to your business processes and be future proof, handling whatever may come.

Increase efficiency. With Control Center each of your database administrators can monitor and manage far more database instances and platforms, significantly and measurably increasing the efficiency of your department. Automation of routine tasks and ease-of-use improve DBA productivity. Using Control Center, we see DBA's managing 50 to 500+ instances each.

Reduce risk. Full overview of all resources and real-time monitoring lets you see what is happening and prepare and prevent problems before they become an issue. Automation ensures all routine tasks are performed as scheduled every time, and never forgotten or ignored.

Better overview. With many instances to manage it's easy to lose overview, so we added extensive features for large estates:

- Global views for the complete overview of platforms, versions, performance, capacities and status of all instances
- Functionality to tag, sort, group and filter instances on platform, location, function or other user-defined criteria in all views and reports. This will allow you to better locate the instance(s) that most need your attention, be it lack of resources, poor performance, high growth or other reasons.

Improve quality of operations. With Control Center problem areas are discovered earlier and preventive actions can be initiated before critical situations arise. It gives a better overview of the total database situation as well as the tools the database administrators need to drill down and analyze the performance and health of individual database instances.

Comprehensive, configurable reporting. With Control Center you can instantly produce advanced reports on your key performance indicators – uptime, availability, load, response time and such. The dbWatch Control Center reporting engine is fully customizable to fit your specific requirements. Reporting can be per database instance, across clusters or any other way you choose.

Future proof. Control Center is fully cross-platform and cross-version. We support most major database technologies, both open source and commercial. Whether you are supporting a single or heterogeneous database environment, Control Center provides a single monitoring framework for all your databases and a common solution for all your administrators. On top of that, Control Center also supports multiple versions of the same database platform in the same interface, making managing legacy solutions and transitions to new versions easier.

Fully Customizable. Customization is the single Control Center feature that will benefit you directly more than any other. With Control Center you can fully customize your database monitoring jobs and views like no other solution allows. With a working knowledge of the native SQL procedure language, you can program dbWatch to monitor *any database process*, customized exactly to business processes and priorities. Apply this to the fully customizable Report Manager, and you have an extremely powerful reporting engine for creating fully customized business reports and IT reports.

dbWatch Control Center – Redefining Database Operations.

Fast Return on Investment. With Control Center, you can be up and running in less than a day and start benefitting from improved operations, better monitoring and enhanced reporting. You feel the benefits of Control Center faster and gain more in the long run.

Extensive security features, dbWatch provides a role-based access control, supports Active Directory and Kerberos and can be used with encrypted connections and certificates, providing enhanced security and control.

Sensible Licensing. If you need a database monitoring solution, dbWatch will likely be one of the most profitable investments you make. We have a no-nonsense, simple to understand licensing policy based on the number of database instances you actually use. In addition, the lightweight Control Center architecture has minimal operating costs, it requires no new investments in hardware, database middleware or repository software, and it has low bandwidth consumption.

CHAPTER 3 DBWATCH FOR THE PROFESSIONAL DBA

As a professional DBA you are expected to keep more and more systems running smoothly. You see complexity and workload increase every day and you are expected to manage it all without extra resources. How can you cope?

The answer is better tool support, automation, simplification and flexibility.

Tool support. With Control Center you get all the functionality you need to manage all your instances in one single, easy to use solution. No longer will you need to install, manage and learn a large set of platform, version or function-specific tools. Fewer tools means less to learn and manage and a simpler, more productive environment.

Automation. Routine tasks like checking status and log files, re-indexing, etc. can take considerable time. Control Center will automate most routine tasks for you. It will automatically perform all database maintenance tasks, based on “best practices” learned from working with large enterprises through many years.

Simplification. What can be simpler: one solution, one tool to learn. No more juggling between different tools. Switch from monitoring to management to performance analysis in the same solution – no need to switch anymore.

Better overview. With many instances to manage it’s easy to loose overview, so we added extensive features to tag, sort, group and filter instances in all views and reports. This will allow you to better locate the instance(s) that most need your attention, be it lack of resources, poor performance, high growth or other reasons.

Flexibility. If you have special requirements – and many have – you need the flexibility to modify or extend your tool to match your requirements. So we give you the platform and tools to do so.

This is the single Control Center feature that will change your work life more than any other—the ability to create, modify, and fully customize your own monitoring procedures exactly how you like and in a programming language you already know. To make this happen, we had to do a few things that no one else had done before:

1. Monitoring procedures are written in the native procedure language of each supported database (PL SQL for Oracle, T-SQL for MS SQL and Sybase, etc.).
2. All monitoring code is fully open for you to read, change, or modify—anyway that you like.
3. Users can create fully customized monitoring procedures from scratch, or modify the procedures we provide.
4. The Control Center Task Editor tool that lets you develop, edit, and manage your monitoring alerts, jobs, and SQL procedures in an easy to use graphical interface.

This design opens up possibilities that no other solution can offer the advanced DBA. With Control Center you can monitor any database component, any state, or any process exactly the way you want to, limited only by the database programming language itself.

If you can do it your native procedure language, you can do it with Control Center!

It is designed to quickly relieve the pressures you face as a DBA, with features that secure and automate your database management routines at the expert level. With Control Center installed, you’ll be the authority, with documented control over all your databases and the reports to prove it!

Out-of-the-box configurations. Control Center comes with a complete set of monitoring alerts and tasks, *preconfigured according to best practices* for each supported database platform. The standard installation includes default thresholds and parameters that you can use to immediately start monitoring critical database components and processes, leaving you secure in the knowledge that your monitoring configuration will stand the test of any inspection.

Easy to Use. With an intuitive and uncomplicated GUI, Control Center provides a total overview of all your database instances in a single, cross-platform interface. Fancy graphics and distractions have been kept in check in order to

dbWatch Control Center – Redefining Database Operations.

give you the relevant information you need to get your job done, in a simple and efficient format, when and where you need it.

With Control Center fully installed in a few hours you are quickly up and running.

Time-saving features. We constantly focus on building a better product that helps DBA's stay productive and efficient. So we have features like database auto-discovery, which will help you discover all databases in your network and add them into Control Center's management framework.

CHAPTER 4 ARCHITECTURE

Agent-less monitoring and management

dbWatch supports two ways of monitoring and managing database servers:

- “Basic mode”. No agents, software or files needs to be installed on the database server instance or underlying operating system or server.
- “Standard mode”. A small schema is installed on the server instance.

In neither mode is any agent required. Installation and operation require only access to the database server.

Distributed repository

The statistics collected are stored distributed on each monitored instance and automatic maintenance procedures ensures the log files and collected data are kept relevant and compact.

Distributed and open platform

dbWatch is built on a unique architecture designed to provide the best possible capabilities for monitoring and managing heterogeneous database platforms.

Our design provides the most precise and relevant database monitoring information possible. With dbWatch you can modify any of the included monitoring procedures to better suit your preferences.

But we took it a step further—we designed dbWatch so you'll have the power to design and develop your own monitoring procedures and jobs from scratch, fully customized to your own needs, your technical requirements, or your company's business logic.

This openness is not limited to the monitoring procedures, also the Management module and Reporting module provides customers with the flexibility to develop and customize the way they manage or report on their database systems.

dbWatch is built on standard, three-tier client server architecture, with database monitoring agents inside the database (dbWatch Engines), the application server (dbWatch Server), and client GUI (dbWatch Monitor Client). In addition, dbWatch includes extensions to support integrating with third-party systems management solutions.

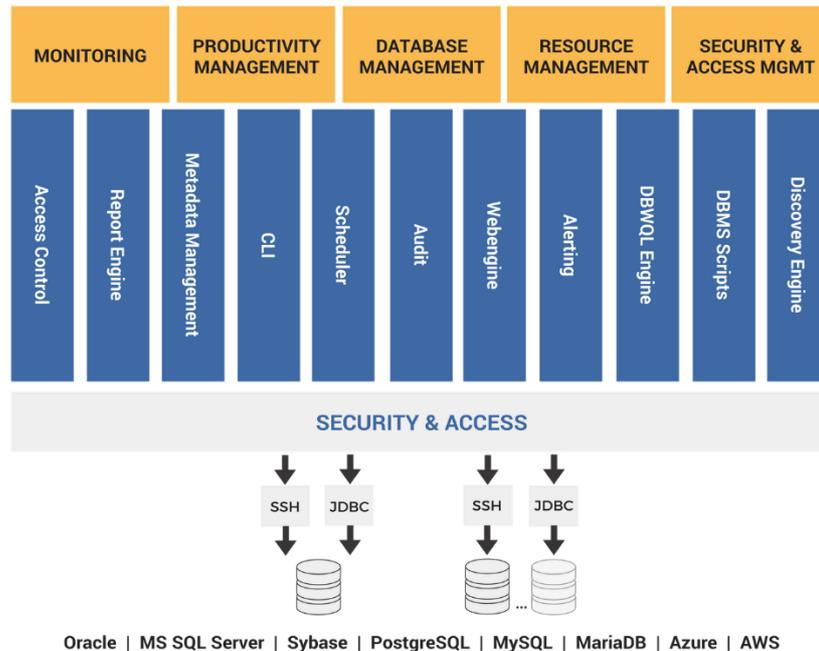


Figure 1: dbWatch Enterprise Manager overview

dbWatch Engines

dbWatch Control Center uses an [intelligent database schema](#) inside the database, called *dbWatch Engines*, for monitoring each database instance. The dbWatch Engine employs two types of monitoring procedures – dbWatch *Alerts* for real-time alarms and warnings, and dbWatch *Tasks* for trend analysis and reporting.

Each Engine is populated with a set of Alerts and Tasks, *defined by you* as relevant to monitoring your database instances. dbWatch Control Center comes with a broad range of advanced out-of-the-box Alerts and Tasks for each supported database platform. You can use these in their standard configurations, edit and modify them, or create your own fully customized Alerts and Tasks from scratch.

Intelligent database schema. Instead of using external agents with proprietary code, installed at the operating system level, the dbWatch Engine is an intelligent database schema installed internally in the database instance being monitored, containing programmable logic, procedures, and routines for monitoring and data collection (at around 50 MB, they are completely non-intrusive and without any significant performance impact). This allows for rapid deployment without the hassle of installing software on each database server.

Native support. The dbWatch Engines are programmed in the native programming language for each supported database (PL SQL for Oracle, T-SQL for MS SQL and Sybase, etc.). Since this is a language that you are already familiar with, you will not need new training or external consultants. This also makes the dbWatch Engine truly platform independent, and much easier to manage.

Open and extensible. The dbWatch Engines code base is fully open. You can read, edit, or modify the code exactly the way you like. And most importantly, you can create your own monitoring procedures and jobs that are fully customized to your work needs or your business processes.

The combination of the following features gives you a combination of advantages that no other database monitoring solution can:

dbWatch Control Center – Redefining Database Operations.

- The most advanced monitoring possible—if you cannot do it in native procedure language, you cannot do it at all.
- Fully self- service—create and modify your monitoring activities exactly the way you want them to be!

dbWatch Server

The dbWatch Server is the nerve center of the dbWatch infrastructure.

dbWatch Server connects and manages all dbWatch Engines and is used for the following:

- Configuring and scheduling alerts and tasks
- Alert Messaging—SMS, email, third-party tools
- Reporting—configuring, creating, generating, and distributing reports
- User administration, role based access controls
- Security handling – encryption, certificates
- Active Directory and Kerberos integration
- Auto-scanning for new instances

Scheduling and triggering Alerts and Tasks. Each dbWatch Alert and Task comes with a default schedule. dbWatch Server lets you easily configure these schedules and triggers to fit your requirements and preferences (the crontab format may be new to MS users but explanatory text fields are included).

Alert Messaging. DbWatch Server is used to specify alert messaging and routing. You can configure alarms to be sent to one or multiple destinations:

- dbWatch Client
- Email
- SMS
- Third-party system management platform

dbWatch alert messaging is completely flexible, allowing you to configure different messaging rules depending on the day of the week, hour, calendar date, etc., to fully support the shift schedule of your IT management processes.

Platform. While dbWatch Control Center comes complete with all the monitoring alerts, maintenance tasks and reports that most users need, we recognize the need for some users to adapt and extend the tools for unique requirements. That's why Control Center is delivered with an integrated development environment (IDE) and the source to all tasks and alerts so each DBA can easily modify, extend or create new tasks, procedures and reports. Control Center also includes a command line interface (CLI) and farm data language (FDL) for querying across multiple instances and versions.

UX Client

The dbWatch Client provide the graphical user interface for the dbWatch user, with a highly intuitive and easy to use structure.

The client provides a full overview of all of the monitored databases in a single common interface. For ease of use instances can be given names and properties, grouped, sorted, filtered in any way so each view matches the local needs and makes operations easier.

The complete user interface is customizable through [FDL](#). You can read about it by following the link.

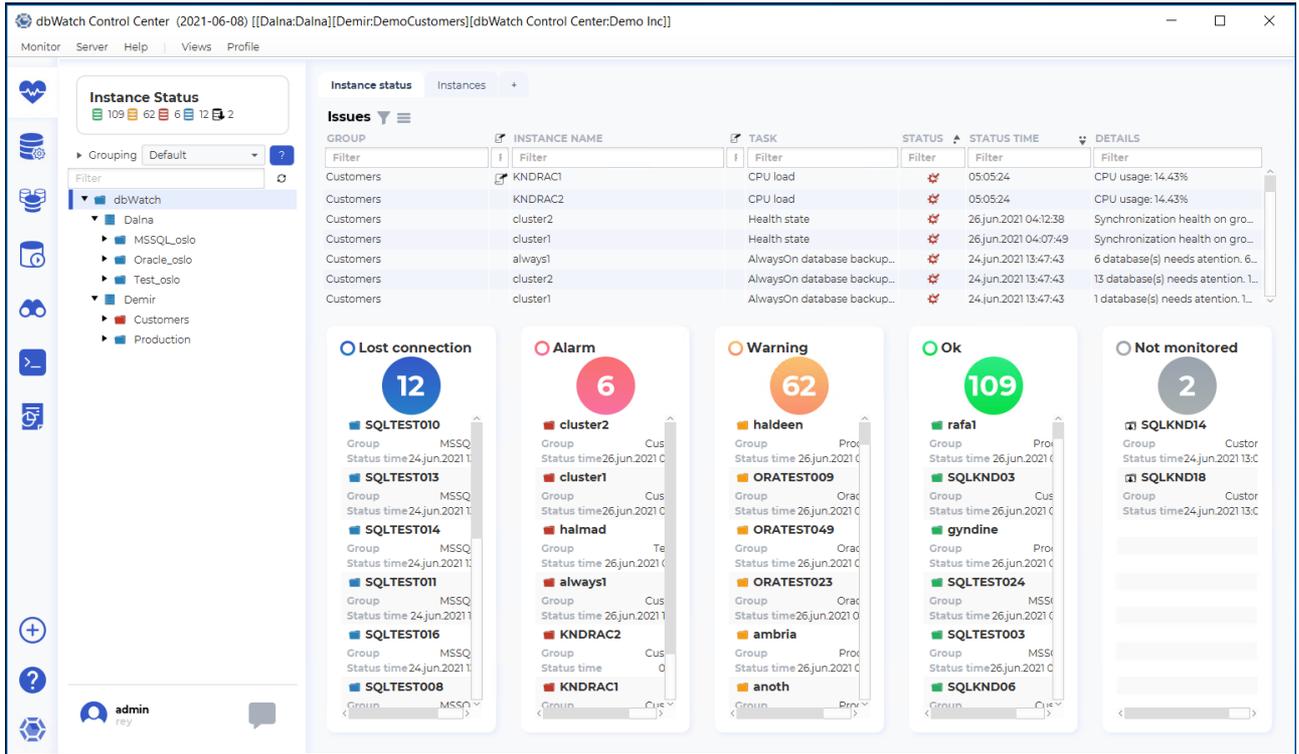


Figure 2: Instance Status Overview – Job Statuses and Alarms

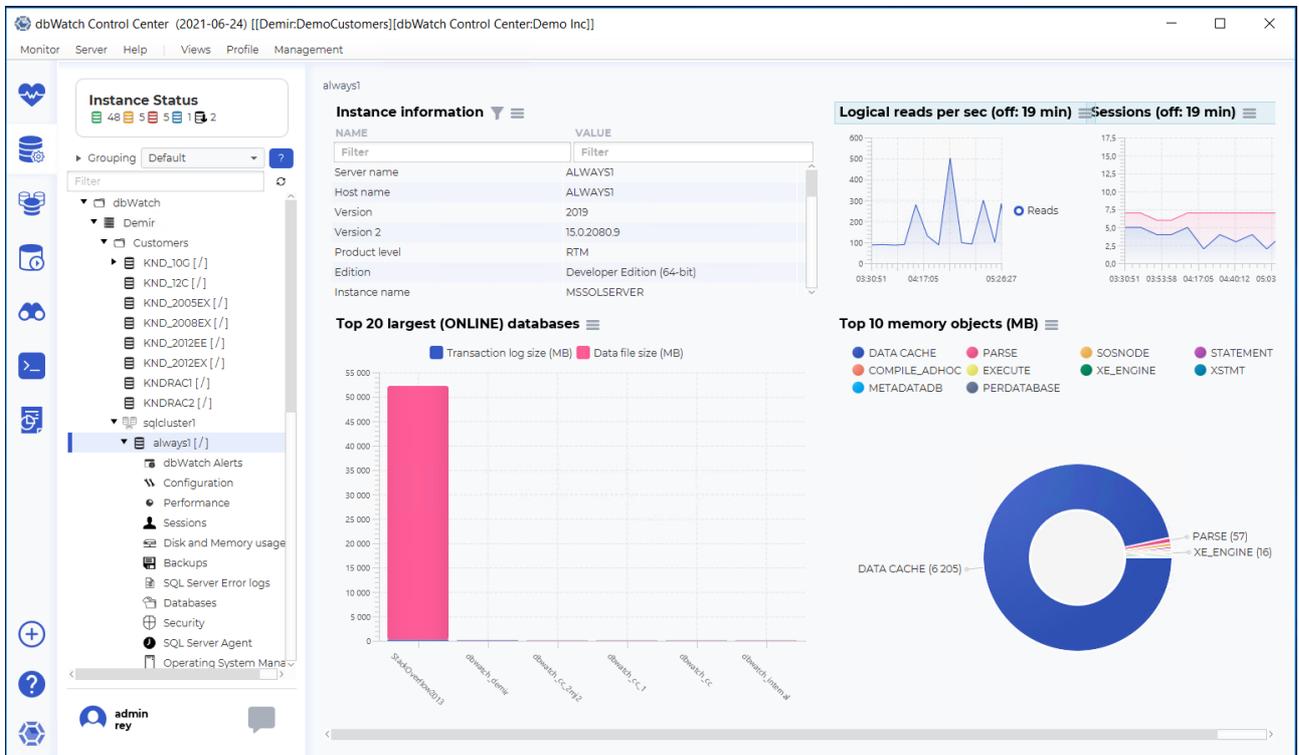


Figure 3: Single Instance - Performance dashboard

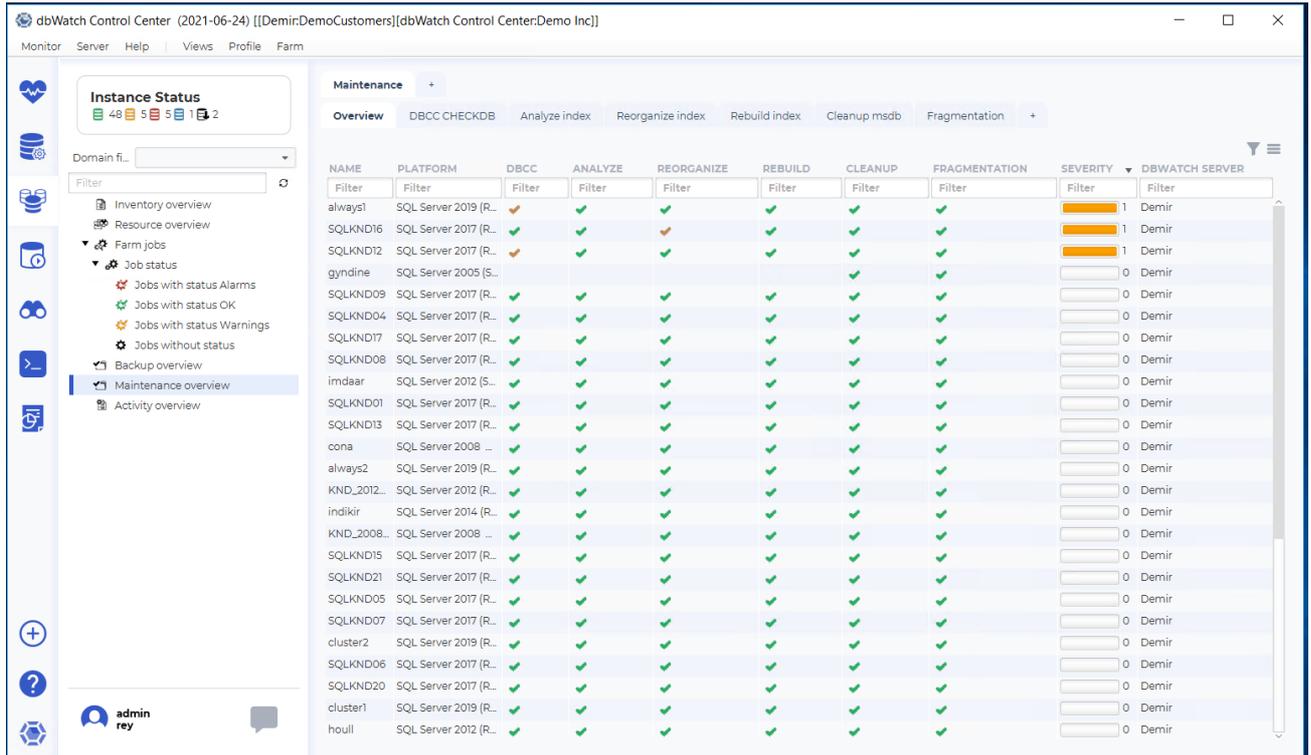


Figure 4: Farm View - SQL Index and DB Maintenance Overview

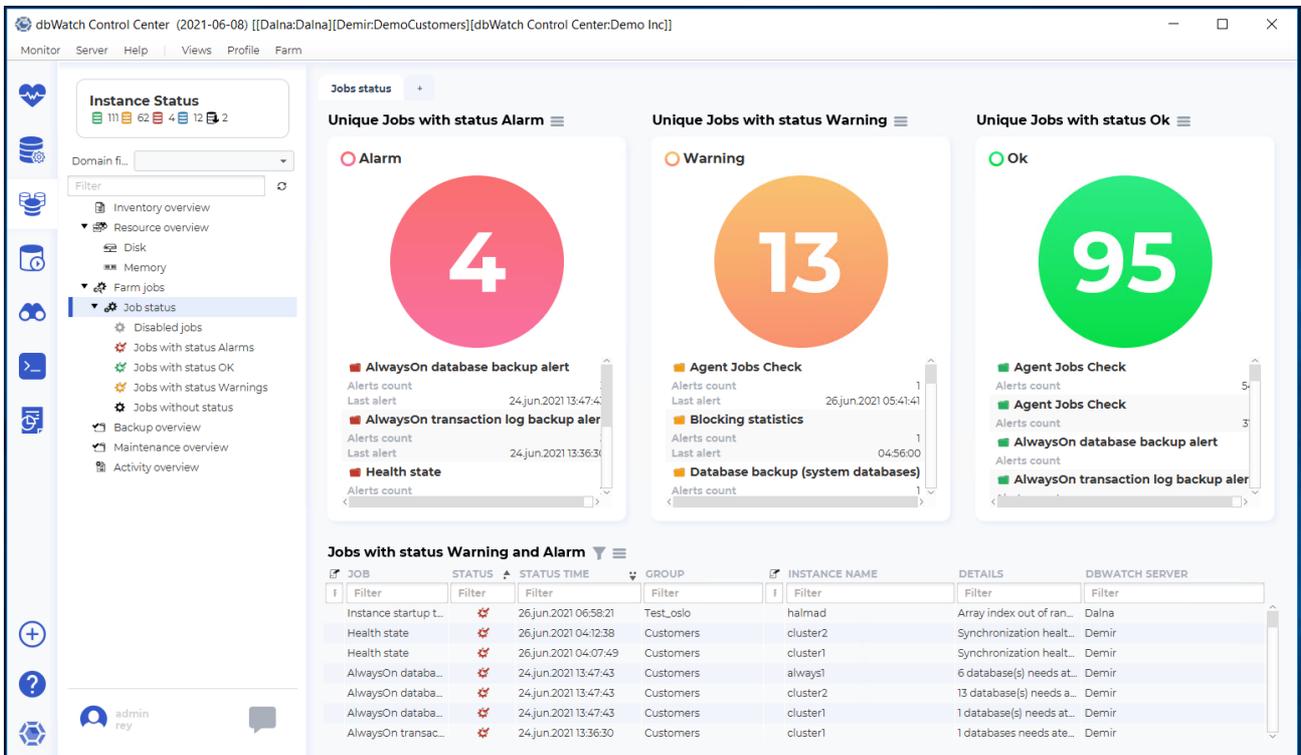


Figure 5: dbWatch Farm View - Jobs Status Farm Overview

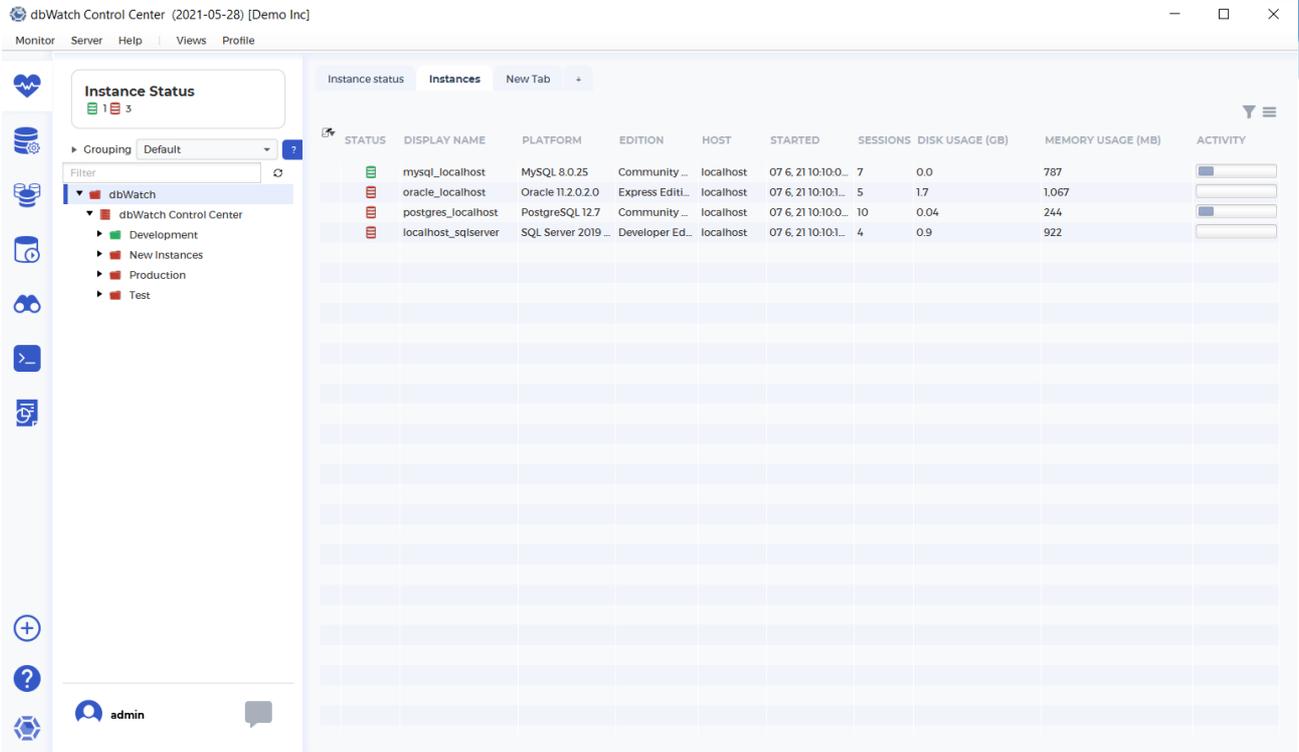


Figure 6: Instance View - Monitoring Instance Activity, Memory and Sessions

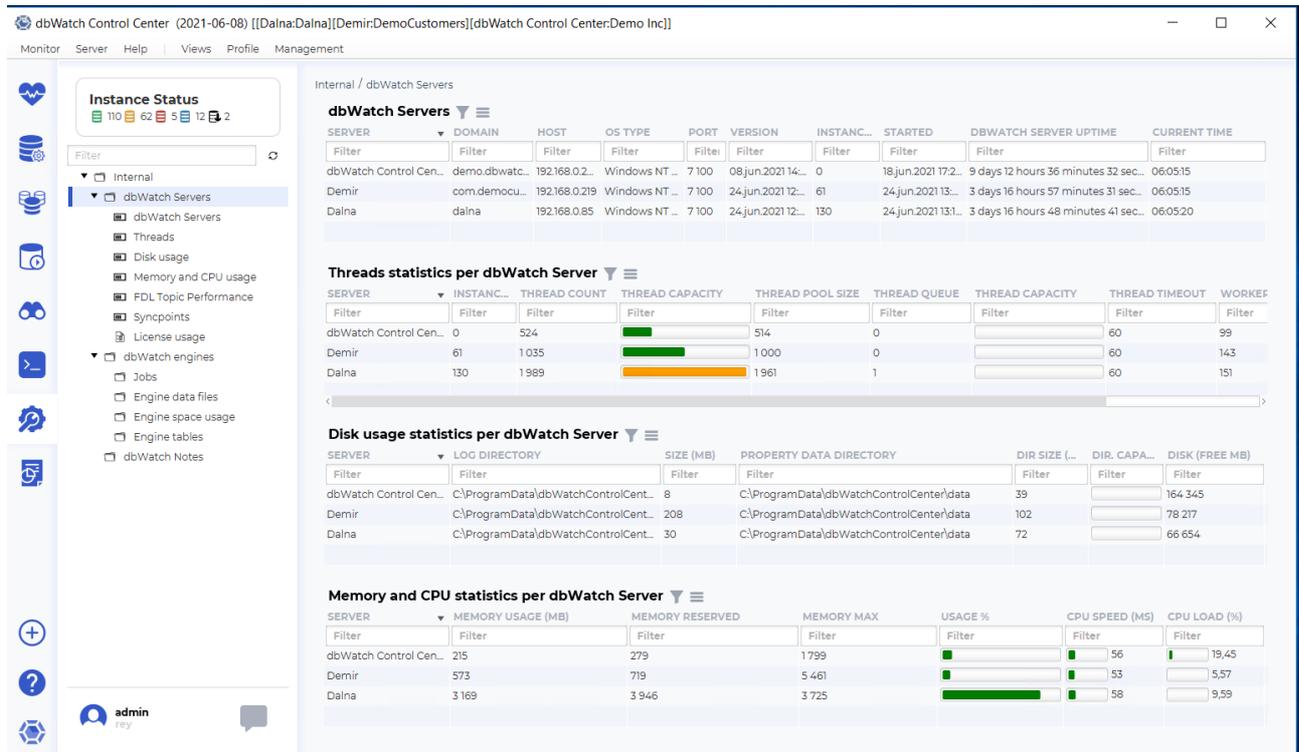


Figure 7: dbWatch Internal – seeing other dbWatch Servers

CHAPTER 5 DISTRIBUTED MONITORING

In large or complex environments there is sometimes need for deploying multiple dbWatch servers and connect them together in a single monitoring view.

This need can arise when you:

- Need to monitor more than 250 instances (win) 500(Linux)
- Multiple locations/data centers
- Have subnets with servers behind firewalls
- Multiple organizations/customers/units
- Need to minimize network/Firewall traffic
- Need Redundancy

dbWatch Control Center has supported multiple monitoring/management servers for a long time. This can have multiple benefits:

- Scales to thousands of instances
- Simplify access to instances behind firewalls
- Reduce network traffic
- Redundancy
- Data and stats cached locally on each server



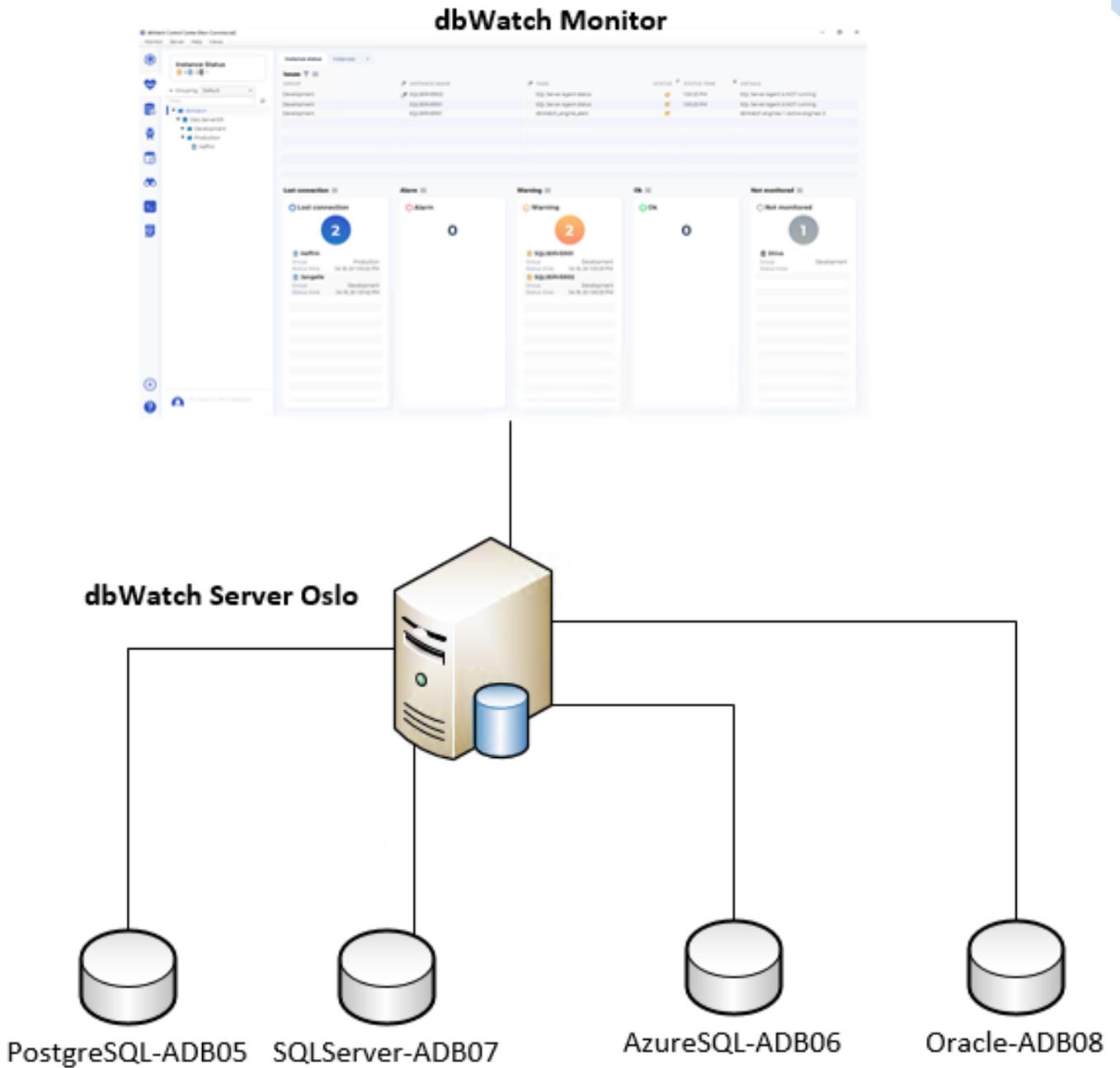


Figure 8: Normal, single server configuration. Scales to 250 (windows) or 500 (Linux) instances

Multiple dbWatch Servers

dbWatch Monitor

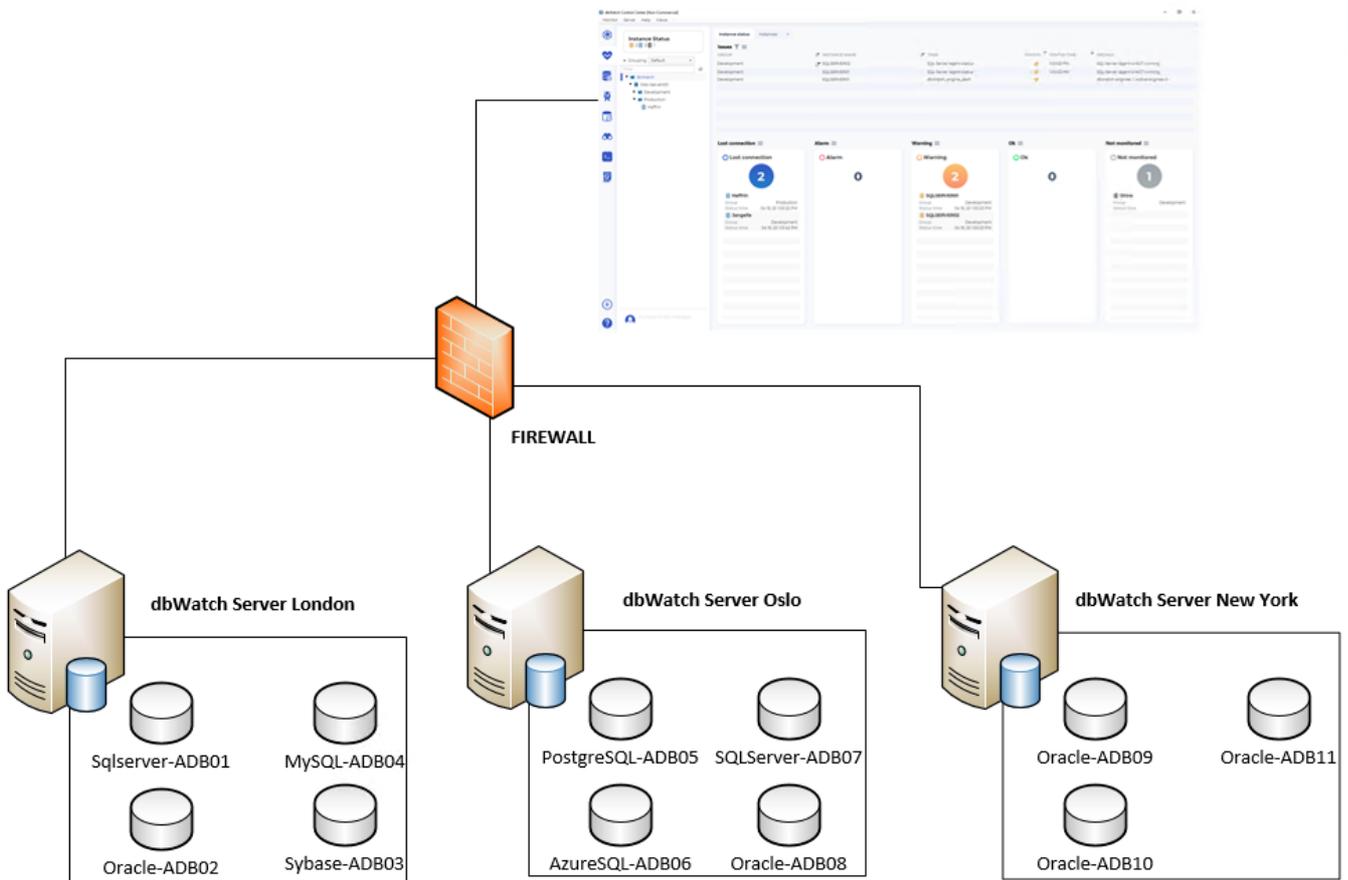


Figure 9: Multiple dbWatch servers connected in hierarchy to serve multiple locations or subnets. Excellent scalability!

The following chapter describes the unique dbWatch architecture and the relations between the individual components in the platform.

dbWatch Control Center on Instance and Database Monitoring

Monitoring Module provides a wide range of monitoring tasks and alerts. Tasks provide statistics and growth rates for your database, which allows for better planning and performance analysis of how your system is behaving. Alerts provide alarms and warning that enables you to react to problems as quickly as possible. The Monitoring module provides an easy to use interface for configuring and controlling the individual monitoring tasks and alerts, and also provides an interface for changing and developing your own custom monitoring.

dbWatch Control Center on Instance and Database Management

Management module provides an administration GUI to do the day-to-day administration work for you (DBA's). Unique to dbWatch we provide a set of different interfaces. This allows you to tailor the management interface depending on what work a certain user is allowed to do. You can give some, more sensitive and complex, administration privileges, and less complex interfaces with limited possibilities to others. You can even, if you have the privilege, edit your configuration to add new possibilities on your own.

dbWatch Control Center for Database Farm Reporting

Report module is a powerful reporting tool that lets you automatically generate and distribute reports in html or pdf formats to designated recipients. Report module comes with standard DBA reports for each platform. The real power of Report module lies in customization—the ability to create your own set of reports, fully customized to fit your needs, those of your organization, or even your external customers. With Report module, you can report on any data or any process that dbWatch monitors, with data presentation formats, default texts, logos, and graphics configured exactly according to each report's needs.

Report module automatically triggers reporting procedures, using data stored locally in the distributed dbWatch Engines. Data results are then centrally collected, processed, formatted, and distributed by dbWatch Server to designated recipients according to schedules defined by you.

Report module automates the entire reporting process, eliminating the need for unnecessary manual reporting routines and activities.

dbWatch includes a broad range of standard reports out-of-the-box. You can also create your own fully customized reports with your own logos, in-house default texts, charts, and tables. You can automatically generate and distribute reports electronically at pre-set schedules, in html or pdf formats.

dbWatch Control Center – SQL tools

SQL Worksheet is a powerful, fully cross platform SQL tool that allows you to simultaneously execute commands or perform SQL queries across multiple databases, regardless of platform.

With SQL Worksheet, you can easily compare query results across your database environment, no matter how large. Ingeniously simple, SQL Worksheet will relieve you of headaches and save you valuable time from unnecessary manual labor working in large environments.

CHAPTER 7 SCALABILITY AND LARGE DATACENTER FEATURES

dbWatch Control Center is designed from the ground up to handle large environments. dbWatch is used to manage anything from a handful to more than one thousand database server instances at a time in the largest enterprise and service provider environments.

To work efficiently in the largest environments dbWatch has several special features:

- Distributed, scalable architecture. Agents are distributed on each instance, and statistics are kept locally on each instance. This avoids building huge central repositories
- Each instance can have its own set of user-defined properties and tags. This makes it easy to attach meaningful information to each instance, so the DBA's know the function and role of each instance, helping them understand the usage patterns and priorities of each.
- User-defined grouping of instances
- Filters to select instances
- Group actions. Perform a query, report or add/change agents and tasks on selected groups of instances
- Resource reports giving full in-depth overview of all instances, software licenses, capacity, utilization etc.
- Bulk import of instance information
- Auto-scan for new instances
- Ability to distribute dbWatch servers in subnets to obey firewall and security rules in a secure, controlled manner

Cluster management

dbWatch Control Center supports AlwaysOn clustering with its recent release. Although, it is still fully polished for Oracle RAC and Microsoft as of the moment.

Security

dbWatch implements several technologies and methodologies to support use in secure environments like defense, police, hospitals, and banking:

- Active Directory
- Role-based, fine grained access controls
- Encrypted connections using certificates
- Kerberos

License control and optimization

dbWatch can analyze license usage and advise on optimal licensing for both Oracle and MS SQL Server.

Consolidation support

dbWatch can analyze the complete set of instances and offer information and advice on server consolidation:

- Detect inactive databases
- Analyze server software, load, resource/capacity utilization
- Provide recommendations as to which instances are candidates for consolidation or should best be kept separate

CHAPTER 9 CUSTOMIZATION AND DEVELOPMENT

While dbWatch is delivered complete and ready to use, and 90% of dbWatch users use it as delivered, we do recognize that sometimes there is a legitimate requirement for modifying, extending, or customizing dbWatch to local needs. For this reason, we offer a full and comprehensive set of development and customization tools and options:

- All tasks and alerts are written in native database programming language and delivered in source form. They can be modified or extended by developers or DBA's in the native development environment
- All user-interface is defined in XML and may be modified by the customer
- All standard reports are available in source form and may be modified or extended.
- There is command-line interface (CLI) available so most dbWatch functions can be called from scripts.
- The very powerful and flexible internal dbWatch Farm Data Language FDL is available for developers and DBA's

Basically, almost all you see in dbWatch can be modified, added to, or extended by competent users. For full information see the [dbWatch support pages](#) and [online documentation](#).

CHAPTER 10 RELEASE AND VERSION INFO

The latest major release of dbWatch Control Center is version 415 released last May 28, 2021. The following is an overview of some of the new features and functionality in the latest dbWatch Control Center version.

New features

- Global views for performance, capacities and maintenance
- Revamped User Interface
- Farm Management Module
- Customizable dashboards in Management module
- Support for grouping, filtering and search for instances
- Support for monitoring instances without installation
- Major upgrade of the PostgreSQL support
- Support for AlwaysOn cluster
- Performance report for Oracle
- Schedule reports with different users
- Farm Data Language (FDL)
- Command line (CLI) support
- Auto-discover instances – add, modify and delete
- Added time topic for Server
- Support Multiple dbWatch Server connection
- Improved “Connected users” view
- New “Internal engine files” views (MS SQL Server, Oracle)
- Internal Messaging system for users

For more information on the previous versions and releases, you can check the [release notes](#) in our online documentation. You can also check the [version summary](#) to track the recent release.

CHAPTER 11 TECHNICAL SPECIFICATIONS

The following sections specify the technical prerequisites for using the dbWatch platform.

Supported Database Platforms

dbWatch supports the following databases for its most recent release:

- Oracle: 8i, 9i, 10g, 11g, 12c, 18c, 19c
 - Standard edition and Enterprise edition
- MS SQL Server: 2000, 2005, 2008, 2012, 2014, 2016, 2017, 2018, 2019
- Sybase: 12, 15
- MySQL: 5.0 and later
- MariaDB
- PostgreSQL: 8.2 and later

Technical Requirements

- a. **dbWatch Server**
 - Windows, Apple OSX or Linux Server on I386 (VMWare virtual server supported)
 - 8 GB RAM recommended
 - 2 GB HD Space
 - Installs in under 15 minutes
- b. **dbWatch Engine (per instance)**
 - 500 Mb free space in each database instance recommended
 - Bulk install for large database environments
 - SA, SYS or other superuser password required for each engine installation
 - Installs in under 2 minutes per instance
- c. **dbWatch Client**
 - Windows, Apple OSX or Linux operating system for use with graphical interface
 - 500 Mb hard drive space
 - Java support
 - 4 Gb memory
 - Client - Server communication requires single port only

APPENDIX A PRECONFIGURED MONITORING PROCEDURES

dbWatch delivers pre-configured monitoring procedures based on best practices for each supported database platform.

Oracle

Blocking detector	ASM disk statistics
Buffer cache statistics	ASM diskgroup check
Memory statistics	Job scheduler
Redo statistics	Availability check
Session load	Alert log check
Wait statistics	RMAN Backup check
File I/O statistics	CPU Load
Open cursors check	Network statistics
Disk read statistics	Top user memory usage
Latch statistics	User memory statistics
SQL Statements statistics	Oracle License information
Undo statistics	Auto extensible data files
DML Performance	Temp tablespace usage
RAC Monitoring	Backup log check
Flash recovery area usage	Export log check
Free extents check	File status check
Segment size collector	Listener log check
Segment size status	Listener status check
Tablespace check	Data Guard archive check

MS SQL Server

Blocking detector	SQL statements statistics
Data hit ratio	Index usage statistics
Session load	External fragmentation

File I/O stats

DML Performance

DB growth rates

Disk space check

Filegroups growth rate

Transaction log size

Transaction log space usage

Agent jobs check

DB uptime

SQL Server agent status

Sybase

Data cache monitor

Disk activity monitor

Engine CPU monitor

System monitor collector

Procedure cache check

Database disk space usage

Internal fragmentation

Memory object statistics

Transaction log backup check

Backup all databases task

Datafile size check

Database mirroring

Log shipping monitor

Database status

Database backup check

Session load

Database space check

Database growth rate

Database uptime

MySQL

Memory setup

Session load

Temporary table check

Binlog cache check

InnoDB buffer pool check

Database load

Lock statistics

Database growth rate

Key buffer check

Network traffic

Query cache

Thread cache

Temp table check

Database uptime

PostgreSQL

Analyze check

Disk block hit rate

Locks held

Index block hit rate

Database growth rate

Log size statistics

Tablespace

Vacuum check

Database uptime

Daily analyze job

Schema growth and info

Session load

Table and index statistics

Transaction statistics

Backup check (pg_dump)

Go to <https://wiki.dbwatch.com/ControlCenter/> for detailed information about each procedure.

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