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Chapter 1 - Introduction

About Navicat Monitor

Navicat Monitor is a safe, simple and agentless remote server monitoring tool that is packed with powerful features to make your monitoring effective as possible. Monitored servers include MySQL and MariaDB, and compatible with cloud databases like Amazon RDS, Amazon Aurora, Oracle Cloud, Google Cloud, Microsoft Azure and Alibaba Cloud. Navicat Monitor is a server-based software which can be accessed from anywhere via a web browser. With web access, you can easily and seamlessly keep track of your servers around the world, around the clock.

Here are some highlights of Navicat Monitor:

- Real-time instance performance monitoring
- Getting alert notification and setting alert policies
- Query analyzer for identifying slow queries
- Monitoring replications
- Comparing and printing charts

For details, visit our website: https://www.navicat.com
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Chapter 2 - Getting Started

Requirements

Supported Platforms for Installing Navicat Monitor

Windows

- 64-bit

macOS

- Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, macOS 10.12 Sierra, macOS 10.13 High Sierra
- 64-bit

Linux

- Red Hat Enterprise Linux 6.6 or later, CentOS 6.6 or later, Oracle Linux 6.6 or later, Fedora 20 or later, Debian 8.0 or later, SuSE Linux Enterprise 12 or later, Ubuntu 14.04 LTS, 16.04 LTS or 17.10, Amazon Linux 2
- 64-bit

Hardware Requirements for Installing Navicat Monitor

Minimum hardware requirements

- 2-core CPU
- 2GB RAM

Recommended hardware requirements

- 4-core CPU or more
- 8GB RAM or more
- RAID-1 disk mirroring

Disk space minimum requirements

- 4GB/opt

Supported Web Browsers

- Firefox (Latest Version)
• Chrome (Latest Version)
• Internet Explorer 11 or later
• Microsoft Edge 39 or later
• Safari 9.1.3 or later

Supported Servers for Monitoring
• MySQL 5.1.73 or later
• MariaDB 10.0 or later

Supported Repository Databases
• MySQL 5.1.73 or later
• MariaDB 10.0 or later
• PostgreSQL 9.5.1 or later
• Amazon RDS

Installation

Offline Installation

Offline Installation is available for all platforms supported by Navicat Monitor, except Amazon Linux 2.

Installation on Windows

Follow the steps below to install Navicat Monitor on Windows:

2. Open the .exe file.
3. Click Next at the Welcome Screen.
4. Read the License Agreement. Accept it and click Next.
5. Accept the location of the program by clicking Next. If you wish to change the destination of the folder, click Browse.
6. Follow the remaining steps.
7. After the installation, Navicat Monitor starts automatically. Configure the Initial Settings in the pop-up browser.

Installation on macOS
Follow the steps below to install Navicat Monitor on macOS:

1. Download Navicat Monitor macOS version.
2. Open the .dmg file.
3. Drag Navicat to your Applications folder to install.
4. After the installation, Navicat Monitor starts automatically. Configure the Initial Settings in the pop-up browser.

**Installation on Linux**

Your Linux software repository should contain the following packages:

<table>
<thead>
<tr>
<th>OS Version</th>
<th>Packages</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHEL 6.6 or later, CentOS 6.6 or later, Oracle Linux 6.6 or later</td>
<td>patch, autoconf, automake, bison, gcc-c++, libffi-devel, libtool, patch, readline-devel, sqlite-devel, zlib-devel, glibc-headers, glibc-devel, libyaml-devel, openssl-devel, mysql-devel, postgresql-devel</td>
</tr>
<tr>
<td>RHEL 7.0 or later, CentOS 7.0 or later</td>
<td>patch, autoconf, automake, bison, bzip2, gcc-c++, libffi-devel, libtool, patch, readline-devel, sqlite-devel, zlib-devel, glibc-headers, glibc-devel, openssl-devel, mariadb-devel, postgresql-devel, libyaml-devel</td>
</tr>
<tr>
<td>Oracle Linux 7.0 or later</td>
<td>patch, autoconf, automake, bison, bzip2, gcc-c++, libffi-devel, libtool, patch, readline-devel, sqlite-devel, zlib-devel, glibc-headers, glibc-devel, openssl-devel, postgresql-devel, libyaml-devel</td>
</tr>
<tr>
<td>Fedora 20 or later</td>
<td>patch, autoconf, automake, bison, bzip2, gcc-c++, libffi-devel, libtool, patch, readline-devel, sqlite-devel, zlib-devel, glibc-headers, glibc-devel, libyaml-devel, openssl-devel, mysql-devel, postgresql-devel</td>
</tr>
<tr>
<td>Debian 8.0 or later, Ubuntu 14.04, 16.04 &amp; 17.10</td>
<td>g++, gcc, make, libc6-dev, zlib1g-dev, libyaml-dev, libsqlite3-dev, sqlite3, autoconf, libgmp-dev, libgdcm-dev, libncurses5-dev, automake, libtool, bison, pkg-config, libffi-dev, libgmp-dev, libreadline6-dev, libssl-dev, libmysqlclient-dev, libpq-dev</td>
</tr>
<tr>
<td>SuSE 12 or later</td>
<td>(Software Development Kit packages) libyaml-0-2, bison, gdbm-devel, glibc-devel, libffi-devel, libopenssl-devel, readline-devel, sqlite3-devel, zlib-devel, gcc, gcc-c++, libmysqlclient-devel, postgresql-devel</td>
</tr>
</tbody>
</table>

Follow the steps below to install Navicat Monitor on Linux:

1. Download Navicat Monitor Linux version installation package for your OS version.
2. Open Terminal. Execute the following commands as “root”.
3. Install Navicat Monitor:

<table>
<thead>
<tr>
<th>OS Version</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>RHEL 6.6 or later</td>
<td>yum --enablerepo=rhel-6-server-optional-rpms localinstall navicatmonitor-x.y.z.rpm</td>
</tr>
<tr>
<td>Operating System</td>
<td>Installation Command</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>RHEL 7.0 or later</td>
<td><code>yum --enablerepo=rhel-7-server-optinal-rpms localinstall navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>CentOS 6.6 &amp; 7.0 or later</td>
<td><code>yum localinstall navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>Oracle Linux 6.6 or later</td>
<td><code>yum localinstall navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>Oracle Linux 7.0 or later</td>
<td><code>yum --enablerepo=ol7_optional_latest install navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>Fedora 20 or later</td>
<td><code>yum localinstall navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>Debian 8.0 or later, Ubuntu 14.04</td>
<td><code>dpkg -i navicatmonitor</code></td>
</tr>
<tr>
<td>SuSE 12 or later</td>
<td><code>zypper in navicatmonitor-x.y.z.rpm</code></td>
</tr>
<tr>
<td>Ubuntu 16.04 &amp; 17.10</td>
<td><code>gdebi navicatmonitor</code></td>
</tr>
</tbody>
</table>

4. Start Navicat Monitor:
   `sudo /etc/init.d/navicatmonitor start`

5. Configure the Initial Settings.

**Online Installation**

Online Installation is only available for macOS and Linux platforms.

**Installation on macOS**

- [ Install on macOS with Homebrew ]

**Installation on Linux**

- [ Install on Red Hat Enterprise Linux 6.6 or later with Yum ]
- [ Install on Red Hat Enterprise Linux 7.0 or later with Yum ]
- [ Install on CentOS 6.6 or later with Yum ]
- [ Install on CentOS 7.0 or later with Yum ]
- [ Install on Oracle Linux 6.6 or later with Yum ]
- [ Install on Oracle Linux 7.0 or later with Yum ]
- [ Install on Fedora 20 or later with Yum ]
- [ Install on Debian 8.0 or later or Ubuntu 14.04 LTS with Apt ]
- [ Install on SuSE Linux Enterprise 12 or later with Zypper ]
- [ Install on Ubuntu 16.04 LTS or 17.10 with Apt ]
- [ Install on Amazon Linux 2 with Yum ]
Upgrade

Before you upgrade Navicat Monitor, we recommend that you back up your current Navicat Monitor settings. See Migration / Backup for details.

Windows

Follow the steps below to upgrade Navicat Monitor on Windows:

1. In the system tray, right-click and choose Check For Updates.

2. If a new version is available, click Install.

3. After the upgrade is finished, Navicat Monitor starts automatically.

macOS

Follow the steps below to upgrade Navicat Monitor on macOS:

1. In the menu bar, click and choose Check For Updates.

2. If a new version is available, click Install Update.

3. After the download is finished, click Install.

4. After the upgrade is finished, Navicat Monitor starts automatically.
Follow the steps below to upgrade Navicat Monitor on Linux:

1. Open Terminal. Execute the following commands as "root".

2. Stop Navicat Monitor:
   
   `sudo /etc/init.d/navicatmonitor stop`

3. Update Navicat Monitor:

<table>
<thead>
<tr>
<th>OS Version</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Hat Enterprise Linux,</td>
<td>yum clean all; yum update navicatmonitor</td>
</tr>
<tr>
<td>CentOS, Oracle Linux, Fedora</td>
<td></td>
</tr>
<tr>
<td>Ubuntu, Debian</td>
<td>apt-get upgrade</td>
</tr>
<tr>
<td>SUSE</td>
<td>zypper refresh; zypper update navicatmonitor</td>
</tr>
</tbody>
</table>

4. Start Navicat Monitor:
   
   `sudo /etc/init.d/navicatmonitor start`

Initial Setup

After you have installed Navicat Monitor and start it for the first time, a browser will pop up and open the URL `http://<your_ip_address>:<port_number>` of your Navicat Monitor. You need to complete the basic configuration of Navicat Monitor in the Welcome page.

Note: `<your_host_address>` is the host name of the system that installed Navicat Monitor, and `<port_number>` is 3000 by default. For Linux version, you need to open the browser and go to `http://<your_ip_address>:<port_number>` manually.

If you want to import Navicat Monitor configuration settings, see Migration / Backup for details.
**Create Superuser Account**

Superuser is a local user (Manager) account which has unlimited access to Navicat Monitor functionalities.

1. In the Welcome page, click **Initial Settings**.

2. Enter the profile information of the superuser: Username, Password, Full Name, Email, Mobile.

![Initial Settings Superuser Profile](image)

3. Click **Next**.

**Set Repository Database**

Repository database stores alerts and performance metrics data for historical analysis. It can be either a MySQL database, MariaDB database, PostgreSQL database or Amazon RDS instance. We do not recommend setting the repository database to an instance that you plan to monitor or a production database.

**Note:** Manager can change the repository database anytime after the initial setup, see [Repository Database](#) for details.

1. Choose the **Database Type** of the repository database.

2. Enter the connection information to the database.

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>The host name or IP address of the database server.</td>
</tr>
<tr>
<td>Port</td>
<td>The TCP/IP port for connecting to the database server.</td>
</tr>
<tr>
<td>Database Name</td>
<td>The name of the repository database. It can be either an empty existing</td>
</tr>
<tr>
<td></td>
<td>database or a new database created by Navicat Monitor.</td>
</tr>
<tr>
<td>Username</td>
<td>User name for connecting to the database server. The user account must</td>
</tr>
<tr>
<td></td>
<td>have the following privileges:</td>
</tr>
<tr>
<td></td>
<td><strong>MySQL / MariaDB</strong> - SELECT, INSERT, UPDATE, DELETE, CREATE,</td>
</tr>
</tbody>
</table>
DROP, INDEX, ALTER, CREATE TEMPORARY TABLES, CREATE VIEW on all database objects

PostgreSQL - Can login, Can create database and Superuser

Password

Password for connecting to the database server.

---

3. Click Next.

Set Application Information

1. Edit the application information if necessary.

<table>
<thead>
<tr>
<th>Port</th>
<th>The port number that Navicat Monitor will listen.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web URL</td>
<td>The website URL of Navicat Monitor that will be used in Alert emails.</td>
</tr>
<tr>
<td>IP Address</td>
<td>If the machine has been assigned multiple IP addresses, you can specify an IP address for users to access Navicat Monitor. 0.0.0.0 means all IP addresses on the machine.</td>
</tr>
</tbody>
</table>
2. Click **Next**.

**Confirm Settings**

Confirm the configuration information, and click **Finish**. Initial configuration process may take a few minutes for setting up the repository database.

**Log in Navicat Monitor**

After the configuration completed successfully, a login page will be displayed and you can log in Navicat Monitor with the manager user account.
User Interface

Main Toolbar

1 Navigation Menu

The Navigation Menu allows you to access basic features, such as Overview, Alerts, Query Analyzer, Replications and Configurations.

2 Bell Icon

When an upgrade is available, a blue dot next to the bell icon lets you know there are notifications to view. Click the bell icon to view the notification.

3 User Menu

The User Menu allows you to open your own profile page and log out the current user's session. If you have enough privileges, you can open the Activation page.

Navicat Monitor Manager

Navicat Monitor Manager is a small utility that provides quick access to Navicat Monitor, shows the status information of the application, notifies you any changes and updates. It is only available in Windows and macOS versions.
Create Instances

Once you have finished the Initial Settings and have logged in Navicat Monitor, you can create the instances you want to monitor. Navicat Monitor uses an agentless architecture to monitor your database servers and collect data at regular intervals. It does not require installing any agent software on the servers being monitored.

You can create new instances on the following pages by clicking + New Instance and selecting the server type.

- **Overview**
- **Configurations**

In the New Instance window, enter a friendly name to best describe your instance in Instance Name and select the Group of your instance. If you want to add a new group, click New Group. Then, provide the following information to connect your server.
Connect Gateway Server

Navicat Monitor can connect the database server over a secure SSH tunnel to send and receive monitoring data. It allows you to connect your servers even remote connections are disabled or are blocked by firewalls.

1. In the **Gateway Server** section, enable **Connect to gateway server through SSH tunnel**.

2. Enter the following information:

<table>
<thead>
<tr>
<th>Host Name</th>
<th>The host name of the SSH server.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>The port where SSH server is activated, by default it is 22.</td>
</tr>
<tr>
<td>Username</td>
<td>A user on SSH server machine. (It is not a user of database server.)</td>
</tr>
<tr>
<td>Authentication Method</td>
<td>The type of authentication: Password or Public Key.</td>
</tr>
<tr>
<td>Password</td>
<td>[Password Authentication] Password for login SSH server.</td>
</tr>
<tr>
<td>Private Key</td>
<td>[Public Key Authentication] It is used together with your public key. The private key should be readable only by you. Note: Put your private key file in Navicat Monitor &gt; Private Key folder.</td>
</tr>
<tr>
<td>Passphrase</td>
<td>[Public Key Authentication] A passphrase is exactly like a password, except that it applies to the keys you are generating and not an account.</td>
</tr>
</tbody>
</table>

Enter Instance Connection Details

1. In the **MySQL Server** or **MariaDB Server** section, enter the following information:

<table>
<thead>
<tr>
<th>Host Name</th>
<th>The host name or IP address of the database server.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port</td>
<td>The TCP/IP port for connecting to the database server.</td>
</tr>
<tr>
<td>Username</td>
<td>A monitoring user for connecting to the database server. We recommend creating a separate account for the monitoring user which does not causes load on the monitored instance. You should grant REPLICATION CLIENT, SUPER, PROCESS and SELECT on all database objects to the monitoring user.</td>
</tr>
<tr>
<td>Password</td>
<td>The login password of the monitoring user.</td>
</tr>
<tr>
<td>Server Type</td>
<td>The type of the server: Unix-like or Windows.</td>
</tr>
</tbody>
</table>

2. Click **New**.

Login SSH / SNMP to Access System Metrics

Navicat Monitor works over SSH / SNMP to access and collect server’s system performance metrics such as CPU and memory resources. If you do not provide this login, you can still monitoring your server without the system performance metrics shown.

**Unix-like Servers**

1. In the **CPU & Memories** section, enable **Login SSH to access data of CPU & Memories**.
2. Enter the following information:

<table>
<thead>
<tr>
<th>Port</th>
<th>The port where SSH server is activated, by default it is 22.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Username</td>
<td>A user on SSH server machine. (It is not the user of database server.)</td>
</tr>
<tr>
<td>Authentication Method</td>
<td>The SSH authentication method: Password or Public Key.</td>
</tr>
<tr>
<td>Password</td>
<td>[Password Authentication] Password for login SSH server.</td>
</tr>
<tr>
<td>Private Key</td>
<td>[Public Key Authentication] It is used together with your public key. The private key should be readable only by you.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> Put your private key file in Navicat Monitor &gt; Private Key folder.</td>
</tr>
<tr>
<td>Passphrase</td>
<td>[Public Key Authentication] A passphrase is exactly like a password, except that it applies to the keys you are generating and not an account.</td>
</tr>
</tbody>
</table>

3. Click **New**.

**Windows Type Servers**

1. In the **CPU & Memories** section, enable **Login SNMP to access data of CPU & Memories**.

2. Enter the following information:

| Community     | The SNMP community string (acts as a password) that is assigned on the server for authentication. |

3. Click **New**.

**Note:** When you connect a Windows type server using a gateway, Navicat Monitor cannot access system metrics.
Chapter 3 - Configurations

Activation

When the trial period of an instance is finished, Navicat Monitor requires tokens to continue monitoring that instance. If you have purchased tokens in our website, you will receive a token key for activating the purchased tokens in Navicat Monitor. To manage your tokens and license your instances, go to Configurations -> Activation.

Activate Tokens

In the # Local Activated Tokens section, paste your token key into the Enter Token Key text box and click the Activate button. Navicat Monitor contacts our licensing server to activate the token key. If the activation process is successful, the token key details are displayed.

Offline Activation

Offline activation is available when your computer does not have an internet connection. You will need another computer with an internet connection to complete this activation process.

1. In the No Internet Connection dialog, click Offline Activation.
2. Copy the Request Code in the Copy the Request Code Here: box.
4. Paste/Enter the Request Code into the left box.
5. Click Get Activation Code.
6. Copy the generated Activation Code in the right box.
7. Go back to the computer where you are activating Navicat Monitor.
8. Paste the Activation Code into the Paste the Activation Code Here: box.
9. Click Activate.

Allocate Tokens

In the # of # Tokens Available section, all unlicensed instances are displayed in the Unlicensed Instances list and all licensed instances are displayed in the Licensed Instances list. You can allocate available tokens to your unlicensed instances, select an unlicensed instance and click the License > button. If you want to release tokens for licensing other instances, select a licensed instance and click the < Unlicense button.
**Note:** When the trial period expires, Navicat Monitor stops monitoring and collecting data from all unlicensed instances, and will not raise alerts for them.

### Deactivate Tokens

In the **# Local Activated Tokens** section, click the **Deactivate** button next to the token key you want to deactivate. Navicat Monitor contacts our licensing server to deactivate the token key. If the deactivation process is successful, the token key details are removed from the list.

If there is not enough available tokens for deactivating your token key, you may need to unlicense your instances to release some tokens. Otherwise, the **Deactivate** button will not be enabled.

### Repository Database

Migrating an existing repository database to a different database can include moving to a different database type (for example, MySQL to PostgreSQL), or migrating to a database on a different operating system (for example from Windows to macOS).

If you want to migrate your Repository Database, follow these steps:

1. Stop the Navicat Monitor application by executing **command** or using the icon in the system tray / menu bar.
2. In your database management tool, copy your current repository database (all tables with both structure and data) to your new repository database.
3. Start the Navicat Monitor application and launch Navicat Monitor in your browser.
4. Go to **Configurations**.
5. Click **Repository Database**.
6. Click **Edit Settings**.
7. Edit the repository database settings.

<table>
<thead>
<tr>
<th>Database Type</th>
<th>The type of the database server</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>The host name or IP address of the database server.</td>
</tr>
<tr>
<td>Port</td>
<td>The TCP/IP port for connecting to the database server.</td>
</tr>
<tr>
<td>Database Name</td>
<td>The name of the repository database.</td>
</tr>
<tr>
<td>Username</td>
<td>User name for connecting to the database server. The user account must have the following privileges: MySQL / MariaDB - SELECT, INSERT, UPDATE, DELETE, CREATE, DROP, INDEX, ALTER, CREATE TEMPORARY TABLES, CREATE VIEW on all database objects PostgreSQL - Can login, Can create database and Superuser</td>
</tr>
<tr>
<td>Password</td>
<td>Password for connecting to the database server.</td>
</tr>
</tbody>
</table>

8. Restart the Navicat Monitor application to resume monitoring.

**Application**

You can view or change the application settings of Navicat Monitor, such as Port, Web URL and IP Address. To configure the application settings, go to Configurations -> Application.

The application settings of Navicat Monitor is listed.

<table>
<thead>
<tr>
<th>Port</th>
<th>The port number that Navicat Monitor will listen.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Web URL</td>
<td>The website URL of Navicat Monitor that will be used in the Alert emails.</td>
</tr>
<tr>
<td>IP Address</td>
<td>If the machine has been assigned multiple IP addresses, you can specify an IP address for users to access Navicat Monitor. 0.0.0.0 means all IP addresses on the machine.</td>
</tr>
</tbody>
</table>

**Note:** Once you have changed the above settings, you should restart the Navicat Monitor application for it to take effect.

**Migration / Backup**

**Export Monitor Settings**

Exporting Navicat Monitor settings can be useful if you want to migrate application server or for backup purposes. The exported zip file includes Token Keys, Instance Settings, Repository Database Settings and all the files necessary for the restoration.

1. Go to Configurations.

2. Click Export Monitor Settings.

3. In the Export Monitor Settings window, click Download Monitor Settings Zip.
4. If your are migrating the application server, you must deactivate all Token Keys in the Activation page before activating them in a new application server.

Import Monitor Settings

After you installed Navicat Monitor on a new server, you can import the Monitor Settings file (the exported zip file) in Initial Settings.

Note: You can only migrate settings within the same major and minor release. For example, Navicat Monitor v1.1.x only accept v1.1.y zip file.

1. Start and open Navicat Monitor.
2. Click Import Monitor Settings.
3. Drop or browse the zip file to upload it.
4. Click Unlock Monitor Settings.
5. After the settings are unlocked, click Continue.
6. Modify the repository database settings if necessary.
7. Click Restore Monitor Settings.
8. If the restoration is successful, click Continue.
9. All existing tokens are listed. Click Activate if you want to activate them now. And then, click Continue.
10. Allocate the activated tokens to licenses existing instances.
11. Click Finish.

General Settings

You can configure the security, date & time, log, LDAP and Active Directory settings. To configure the basic settings of Navicat Monitor, go to Configurations -> General Settings.

Security

You can change the requirements of the user passwords to increase the password strength and enforce all other user sessions to log out.

Date & Time

The date and time information of Navicat Monitor is listed. You can enable the Use a 24-hour clock to use the 24 hour system.

Log House Keeping
Navicat Monitor logs the detailed server errors and messages for tracking down any problems occurred in the servers. You can control the build retention policy for logs by specifying both the **Maximum size of each build** and the **Maximum no. of builds to keep**.

**LDAP Settings**

Navicat Monitor is able to authenticate users via an externally hosted LDAP server. To use LDAP authentication, configure the following information:

<table>
<thead>
<tr>
<th>LDAP Server Host Name</th>
<th>Enter the host name, IP address or URL of your LDAP server.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Encryption</td>
<td>Select the encryption for communicating with your LDAP server.</td>
</tr>
<tr>
<td>Port</td>
<td>Enter the port for connecting your LDAP server.</td>
</tr>
<tr>
<td>LDAP server allows anonymous bind</td>
<td>Turn on this option if your LDAP server allows anonymous binds.</td>
</tr>
<tr>
<td>User Search Base</td>
<td>Enter the search base filter to search for the user. (For example: If your users are located in &quot;domain.com&quot;, then the search base filter would be <code>dc=domain,dc=com</code>)</td>
</tr>
<tr>
<td>User DN</td>
<td>Enter the user distinguished name to bind to your LDAP server if it does not allow anonymous binds. (For example: If your user name is admin, then the User DN would be <code>cn=admin,dc=domain,dc=com</code>)</td>
</tr>
<tr>
<td>Password</td>
<td>Enter the password for the User DN specified.</td>
</tr>
</tbody>
</table>

**Test Settings**

Click this button to test the connection between Navicat Monitor and your LDAP server.

**Authentication mode**

Select the authentication mode to use for authenticating the user with your LDAP server.

**[Comparison Authentication] Password attribute name**

Enter the attribute name that contains the password-based authentication mechanism name.

**[Comparison Authentication] Password digest mechanism**

Select the password-based authentication mechanism.

**User Search Attribute**

Enter the attribute name that contains the user login name.

---

**Microsoft AD Settings**

You can configure Navicat Monitor to authenticate users with Microsoft Active Directory (AD) credentials. To use Active Directory authentication, configure the following information:

<table>
<thead>
<tr>
<th>AD Server Host Name</th>
<th>Enter the host name or IP address of your AD server.</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Search Base</td>
<td>Enter the search base filter to search for the user. (For example: If your users are located in &quot;domain.com&quot;, then the search base filter would be <code>dc=domain,dc=com</code>)</td>
</tr>
<tr>
<td>User DN</td>
<td>Enter the user distinguished name to bind to your AD server. (For example: If your user name is admin, then the User DN would be <code>cn=admin,dc=domain,dc=com</code>)</td>
</tr>
</tbody>
</table>
Users & Roles

Manage Users

Navicat Monitor allows creating local users, or external users using LDAP or AD authentication. Go to Configurations -> Users to configure users.

Note: The manager user account created during Initial Setup cannot be changed to LDAP or AD user.

Hint: You can view or edit your own profile by clicking your user icon on the top left corner and selecting My Profile.

Create New Users

You can create new users by clicking + Create New User in the left pane.

To create local users

1. Select the Local User tab.

2. Enter the Username and Name.

3. Assign a Role to the new user.

4. Enter the Password, Confirm Password.

5. Click the icon and enter user's email and phone number.

6. Repeat Step 2 - 5 to add another new user.

7. Click Create User.

To create LDAP users

1. Select the LDAP User tab.

2. Enter the LDAP Username and Name.

3. Assign a Role to the new user.

4. Click the icon and enter user's email and phone number.

5. Repeat Step 2 - 4 to add another new user.
6. Click Create User.

**Hint:** To set the LDAP settings, you can go to [General Settings](#).

### To create AD users

1. Select the **AD User** tab.

2. Enter the **AD Username** and **Name**.

3. Assign a **Role** to the new user.

4. Click the ➤ icon and enter user's email and phone number.

5. Repeat Step 2 - 4 to add another new user.

6. Click Create User.

**Hint:** To set the Microsoft AD settings, you can go to [General Settings](#).

### Manage Existing Users

#### To edit a user

1. In the left pane, select a user.

2. Modify the user profile.

3. Click Update Profile.

#### To delete a user

1. In the left pane, hover over the ☻ icon next to the user.

2. Select **Remove User**.

### Manage Roles & Privileges

Roles are collections of privileges to which users are assigned. By default, Navicat Monitor includes three predefined roles for you to assign to difference users for restricting their access. It also allows you to create new roles with customized privileges settings. To configure roles and their privileges, go to [Configurations -> Roles & Privileges](#).

Each predefined roles has different privileges:

<table>
<thead>
<tr>
<th>Role</th>
<th>Privileges</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manager</td>
<td>Can access all pages with full control. The privileges of this role are non-editable.</td>
</tr>
</tbody>
</table>
| DBA    | Can access all pages, **except** the following features:  
             - Activate Token Keys, and License / Unlicense instances |
- Edit General Settings, Repository Database, Data Purge
- Retrieve all log files
- Edit Alert Notification Settings
- Add / Remove / Edit Users' Profiles, Roles & Privileges

| Operator                  | Can access all pages, except the following features:
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- End Process in Query Analyzer</td>
</tr>
<tr>
<td></td>
<td>- All configuration changes</td>
</tr>
</tbody>
</table>

**Set IP Address Restrictions**

As a manager, you can restrict login access at the role-level to prevent users from logging in to Navicat Monitor from any unauthorized locations. If IP address restrictions are defined for a role, the restrictions impacts all users belong to that role. To set a range of IP addresses or a single IP address to restrict for a role:

1. In the left pane, select a role.

2. In the **IP Address Restrictions** section, click **+ Add Range**.

3. Choose the **Type** of the IP address: IPv4 / IPv6.

4. Enter the **Subnet**.

5. Click **Save**.

**Create New Roles**

You can also create new roles to suit the access control needs of users. Based on their needs, you can create customized roles which can be assigned to the desired users to empower them to perform tasks, within the specified boundaries.

1. In the left pane, click **+ New Customized Role**.

2. Enter the **Role Name**.

3. In the **IP Address Restrictions** section, click **+ Add Range** if you want to restrict the access of the new role from an IP Address range.

4. In the **Privileges** section, turn on the privileges that you want to grant to the role.

5. Click **Save**.

**Manage Existing Roles**

**To edit a role**

1. In the left pane, select a role.

2. Modify the role profile: Role Name (only for customized roles), IP Address Restrictions settings or Privileges.
To duplicate a role

1. In the left pane, hover over the icon next to the role.
2. Select Duplicate.
3. The newly created role is named role_name Copy.

To delete a customized role

1. In the left pane, hover over the icon next to the role.
2. Select Delete.

Instances & Groups

Manage Instances & Groups

Navicat Monitor can monitor multiple servers. You can create instances, categorize your instances into groups, and assign members. To configure instances and groups, go to Configurations -> All Instances.

To create a new instance to monitor your server, click + New Instance and select the server type. Then, enter the appropriate information in the New Instance window. See Create Instances for details.

Manage Instances

To edit an instance

1. Select an instance.
2. Modify the instance settings.
3. Click Edit.

Hint: To change the group of instances, simply drag-and-drop selected instances from a group to another.

To suspend monitoring an instance

1. Select an instance.
2. Click More Action and select Pause Monitor.

To change the group of an instance

1. Drag and drop an instance into a group in the left pane.

To delete an instance
1. Select an instance you want to delete.

2. Click More Action and select Delete Instance.

Hint: Deleting multiple instances is supported.

Manage Groups & Members

Groups allow you to organize your instances into collections. Each group is shown as a tab label in the Overview page for filtering the instances quickly. You can also assign users to specific groups as members. If alert notification has configured, Navicat Monitor will send notifications to all members in the group at once when an alert is raised.

All groups are displayed on the left pane and the members of the selected group are displayed on the right pane.

To create a new group

1. Click + New Group.

2. Enter the name of the new group.

3. Click New.

To rename a group

1. In the left pane, hover over the icon next to the group.

2. Select Rename Group.

3. Enter a new group name.

4. Click Rename.

To add members to a group

1. In the left pane, hover over the icon next to the group.

2. Select Add Members to Group.

3. Enter the name or username of users.

4. Click Add Members.

To remove a member from a group

1. In the left pane, select a group.

2. In the right pane, click the member avatar that you want to remove.

3. Select Remove from Group.
To delete a group

1. In the left pane, hover over the icon next to a group.
2. Select Delete.

Set Maintenance Windows

If you have to do maintenance work on your servers regularly, you may want to suspend monitoring and stop receiving alerts from Navicat Monitor during maintenance. Navicat Monitor provides the ability for you to set maintenance window time periods to disable monitoring selected instances. During that period, no alerts are raised and no notifications are sent out. To set the maintenance windows of instances, go to Configurations -> All Instances.

**Note:** You can also suspend monitoring on an individual instance manually. See the “To suspend monitoring an instance” section above.

To set maintenance window

1. Find the relevant instance.
2. Click the Set Maintenance Window button in the Maintenance Window column.
3. Enter / select the date and time that you want the maintenance window to start, its duration and recurrence pattern.
4. Click Save.

**Hint:** Click More Action and select Set Maintenance Window to set maintenance window for selected instances.

To edit the maintenance window

1. Find the relevant instance.
2. Click the Edit button in the Maintenance Window column.
3. Modify the time period.

4. Click Save.

To delete the maintenance window

1. Find the relevant instance.

2. Click the Delete button in the Maintenance Window column.

Hint: Click More Action and select Delete Maintenance Window to delete maintenance window for selected instances.

Alerts

Adjust Alert Policy

Alert is triggered when a monitored metric value crosses a specified threshold for a certain duration. You can enable or disable alerts and change their thresholds and inherit settings. To configure the alert policy, go to Configurations -> Alert Policy.

The Alert Type table displays all available alerts and their details. There are three types of alerts: System, Security and Performance.

<table>
<thead>
<tr>
<th>Alert Type</th>
<th>Inherit From</th>
<th>Enabled</th>
<th>Threshold</th>
<th>Notification</th>
<th>Notification Recipient</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Alerts</td>
<td>Parent</td>
<td>✓</td>
<td>&gt; 90 %</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>Maximum allowed packet</td>
<td>This level</td>
<td>✓</td>
<td>Warning</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>Memory usage</td>
<td>Parent</td>
<td>✓</td>
<td>&gt; 90 %</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>MySQL replication availability</td>
<td>Parent</td>
<td>✓</td>
<td>Critical</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>MySQL server availability</td>
<td>Parent</td>
<td>✓</td>
<td>Warning</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>MySQL server restart</td>
<td>This level</td>
<td>✓</td>
<td>Critical</td>
<td>Email</td>
<td>All Users</td>
</tr>
<tr>
<td>Swap space usage</td>
<td>Parent</td>
<td>✓</td>
<td>&gt; 90 %</td>
<td>Email</td>
<td>All Users</td>
</tr>
</tbody>
</table>

Change Inherit Settings

By default, when you open the Alert Policy page, you are at the All Instances level. You can select a level on the left pane to view its alert policy settings. Those alerts that have been customized at the selected level are marked as This level in the Inherit From column.

1. In the left pane, select a level.

2. In the Alert Type table, check the box of an alert.

3. Click Configure Alerts.

4. Choose Inherit settings from:
5. Click **Save**.

**Hint:** Changing inherit settings for multiple alerts is supported.

### Enable / Disable Alerts

When Navicat Monitor is first installed, all alerts are enabled by default to identify any potential problems with your instances.

1. In the left pane, select a level.

2. In the Alert Type table, check the box of an alert.

3. Click **Configure Alerts**.

4. Turn **Enable Alert** to ON or OFF.

5. Click **Save**.

**Hint:** Enabling or disabling multiple alerts is supported.

### Set Alert Thresholds

Navicat Monitor raises alerts when certain thresholds are reached. Each alert has its default thresholds. You can adjust the settings to suit your case.

1. In the left pane, select a level.

2. In the Alert Type table, check the box of an alert.

3. Click **Configure Alerts**.

4. In the **Alert Settings** section, configure the following information:

<table>
<thead>
<tr>
<th>Raise this alert when:</th>
<th>Set the threshold that triggers the alert.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical</td>
<td>If the monitored value crosses the defined value, Navicat Monitor will raise a Critical alert.</td>
</tr>
<tr>
<td>Warning</td>
<td>If the monitored value crosses the defined value, Navicat Monitor will raise a Warning alert.</td>
</tr>
<tr>
<td>for longer than</td>
<td>Set the duration that the monitored value crosses the defined value.</td>
</tr>
</tbody>
</table>

5. Click **Save**.

### Set Notification Settings

---

<table>
<thead>
<tr>
<th>Parent</th>
<th>Inherit the Alert Settings and Notification Settings from its parent level.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customize for this level and level below</td>
<td>Apply customized Alert Settings and Notification Settings for the selected level and all levels below it.</td>
</tr>
</tbody>
</table>
Navicat Monitor can send notifications to recipients each time an alert is triggered. You can set who will receive the notifications when an alert is triggered.

1. In the left pane, select a level.

2. In the Alert Type table, check the box of an alert.

3. Click **Configure Alerts**.

4. In the **Notification Settings** section, configure the following information:

   | Send notification when: | Select the alert statuses (raised, ended) you want to send notifications. |
   | Via: | Select the methods (Email, SMS, SNMP) you want to send notifications. |
   | Recipient (Email & SMS): | Select users and/or specific email addresses you want to notify. |

5. Click **Save**.

**Note:** Notification is generated when the alert is "Enabled" and the **channels** to receive notifications must be configured.

**Hint:** Changing notification settings for multiple alerts is supported.

**Edit Manager Note**

Managers and users who have permission assigned to their roles can create manager notes to help other users investigate alerts. It will show in the **Alert Details** page when the alert is triggered. With manager notes, users can understand the status of an alert, or help resolve problems identified by the alert.

1. In the left pane, select a level.

2. In the Alert Type table, check the box of an alert.

3. Click **Configure Alerts**.

4. Enter a note for that alert in the **Manager note**: text box.

5. Click **Save**.

**Set Up Notifications**

Navicat Monitor provides 3 channels (emails, SNMP traps and SMS messages) to send notifications whenever an alert is raised in your monitoring or a system problem while you are using it. To configure the alert notifications, go to **Configurations -> Notifications**.

**Email Notifications**

1. In the **Email** section, enable **System error message raised** and/or **Alert raised**.
2. Configure the following information:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SMTP Server</td>
<td>Enter your Simple Mail Transfer Protocol (SMTP) server for outgoing messages.</td>
</tr>
<tr>
<td>Port</td>
<td>Enter the port number you connect to your outgoing email (SMTP) server.</td>
</tr>
<tr>
<td>Require a secure (TLS) connection</td>
<td>Enable this option if your SMTP server requires an secure encrypted connection.</td>
</tr>
<tr>
<td>Mail server requires a username and password</td>
<td>Enable this option if your SMTP server requires authorization to send email. Enter <strong>Account username</strong> and <strong>Password</strong>.</td>
</tr>
<tr>
<td>Send from Email Address</td>
<td>Enter an email address that used in the &quot;From&quot; field for all notification emails sent by Navicat Monitor.</td>
</tr>
<tr>
<td>Send test email to this email address / Send Test Email</td>
<td>Enter an email address to send a test email for checking your configuration.</td>
</tr>
</tbody>
</table>

3. Click **Save**.

**Note:** If the **System error message raised** option is on, you will receive log files generated by Navicat Monitor when a system problem occurred. You can submit the logs to **Navicat Support Center**.

**SNMP Notifications**

1. In the **SNMP v2c** section, enable **Alert raised**.

2. Configure the following information:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SNMP Target Address</td>
<td>Enter the IP address of your server which receive the SNMP traps.</td>
</tr>
<tr>
<td>SNMP Target Port</td>
<td>Enter the Port number of your server which receive the SNMP traps.</td>
</tr>
<tr>
<td>SNMP Community String</td>
<td>Enter the SNMP community string (acts as a password) that is assigned on your server for authentication.</td>
</tr>
<tr>
<td>Download MIB file</td>
<td>Download the MIB file provided by Navicat Monitor and load it into your server.</td>
</tr>
<tr>
<td>Send Test Trap</td>
<td>Send a test trap to the target and port you specified.</td>
</tr>
</tbody>
</table>

3. Click **Save**.

**SMS Notifications**

1. In the **SMS** section, enable **Alert raised**.

2. Configure the following information:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Provider</td>
<td>Select the SMS service provider based on your requirement: Clickatell, Twilio or Others.</td>
</tr>
<tr>
<td>API Key</td>
<td>[Clickatell] Enter the unique API Key of your Clickatell account.</td>
</tr>
<tr>
<td>Account SID</td>
<td>[Twillio] Enter the unique Account SID of your Twilio account.</td>
</tr>
<tr>
<td><strong>Auth Token</strong></td>
<td>[Twilio] Enter the unique Auth Token of your Twilio account.</td>
</tr>
<tr>
<td>---------------</td>
<td>-------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>HTTP API URL</strong></td>
<td>[Others] Enter the URL of the HTTP-API for sending SMS messages.</td>
</tr>
<tr>
<td><strong>Post / Get</strong></td>
<td>[Others] Choose to send SMS messages using a HTTP POST or HTTP GET request.</td>
</tr>
<tr>
<td><strong>Message Key</strong></td>
<td>[Others] Enter the parameter name of the text of the SMS message.</td>
</tr>
<tr>
<td><strong>Recipient Mobile No. Key</strong></td>
<td>[Others] Enter the parameter name of recipients’ mobile number.</td>
</tr>
<tr>
<td><strong>Other Key(s)</strong></td>
<td>[Others] Enter the other parameter names required for sending messages through your SMS provider, e.g. username, password.</td>
</tr>
<tr>
<td><strong>Value</strong></td>
<td>[Others] Enter the value of the parameter you specified.</td>
</tr>
<tr>
<td><strong>Send test sms to this phone number / Send Test SMS</strong></td>
<td>Select a country and enter a phone number to send a test SMS message for checking your configuration.</td>
</tr>
</tbody>
</table>

3. Click **Save**.

**Data Purging**

The repository database stores all data collected by Navicat Monitor during monitoring process. It might consume large amounts of your hard disk space. To prevent the database from growing too large or use all your hard disk space, you can set a regular automatic data purge. To configure the data purging settings, go to **Configurations -> Data Purging**.

Data is stored in two categories: alert and performance data. Alert Data is displayed on various sections of Overview, Alert History and Alert Details pages and Performance Data is displayed on various sections of Overview, Instance Details and Chart pages.

You can choose how long to keep data in each categories. ‘Do Not Purge’ is set as default. It means data will be stored indefinitely in the Repository Database. To change this setting, select a time option from the **Purge Data Older Than** drop-down menu and click **Save**.
Chapter 4 - Overview

Overview Dashboard

The Overview dashboard page shows all instances that are monitored by Navicat Monitor. You can get a high-level summary information and the healthy status of your instances, identify instances which require critical attention.

Instance Cards

The instance cards let you identify the server status and system resource usage. To create a new instance to monitor your server, click **New Instance** and select the server type. Then, enter the appropriate information in the New Instance window. See [Create Instances](#) for details.

By default, instance cards show all available system resource usages. Click **X of Y Shown** and uncheck the metrics that you are not interested in. Select **Restore Default** to restore the cards to their default settings.

Hover over a metric in a card to bring up a small chart. Move the mouse pointer over on the chart to show the time and the values at that point.
You can click on an instance to view its details and metrics.

Pause monitoring an instance

You may want to pause monitoring a specific instance temporarily. Click the icon and select Pause Monitoring. Navicat Monitor stops collecting information from the server until the monitoring resumes. To start monitoring again, select Resume Monitoring from .

Stop refreshing metrics

Navicat Monitor refreshes the metrics on the dashboard every 60 seconds. To stop or start refreshing the metrics, click the or icon. Server data collection does not stop during the stop period.

Change the order of instances

Click Sort by and select a sorting option. If you choose Alert Severity, the instance cards will be sorted by the severity level from critical to low. To customize the position, click and hold the connection icon on an instance card and then drag-and-drop the card to the desired position. Navicat Monitor automatically remembers your custom order.
Filter instances

When creating a new instance, you are allowed to assign it to an availability group. Click on a group name label to shows all instances that belong to it.

You can also filter instances by their health states. The colored tags show the total number of servers having critical alerts (red), servers having warnings (orange) and healthy servers (green). Click on a tag to filter the instances by states in the selected group.

Search instances

If you are monitoring many instances, you can find the instances you want easily by the search feature. Enter a search string in the Search for an Instance text box. Instance cards will be filtered by the search string immediately.

Latest Alerts

The right pane displays the recent alerts that Navicat Monitor raise. It can be hidden by clicking the icon. Click on an individual alert, you will be directed to its details page, or click View All History to open the Alerts page.

Instance Details

View Instance Details

In the Overview page, click on an instance card to open its Instance Details page. It shows the server parameters and metrics visually, gives you a quick view of the server load and performance. You can pause and resume monitoring the instance here by using the Pause Monitoring and Resume Monitoring buttons. Navicat Monitor stops collecting information from the server until the monitoring resumes.
All monitored instances are shown in the left pane. Select an instance to view information related to it.

**Information on Instance Details Page**

**Summary**

It displays host information about the server, server properties, alerts and status. To view or edit the instance variables, click **View & Edit**. If alert is raised, click on the alert to open the alert page.

It displays the top five databases or tables by size, and a sixth category called "Others" that groups the remaining databases or tables. It is a quick and easy way to see which databases and tables on your server are the largest.

**Databases & Tables**

You can hover over each segment to show the size percentage. To view size information of all databases and tables in the instance, click **View All**.

**Charts**

Navicat Monitor displays server performance metrics in the form of visualizations that are represented as small charts. The charts track and refresh the data at the certain intervals, displays related metrics using different predefined colors and symbols. In the small charts, the axis scales and labels are not printed.
The time interval (Y-axis) and refresh options are configurable, use the **Refresh Time** drop-down menu, the datetime picker, the time **Interval** drop-down menu and the panning arrows.

![Refresh Time and Interval settings](image)

You can move the mouse pointer a point on the chart to read the values. To view the details of an individual chart or more charts, click on a chart to open the **Chart** page.

![Chart page](image)

**View & Edit Instance Variables**

In the Instance Details page, click **View & Edit** to view or edit the server variables. The **Instance Variables** page displays the server variables, allows you to compare variables of multiple servers to determine why the performance of one server is not as well as the others in the same condition.

Select multiple instances on the left pane to compare their variables. The values are listed side-by-side, differences can be clear at a glance. Inapplicable variables are marked with **N/A**.

![Instance Variables page](image)

To edit a variable, hover over a value and click **Edit**.
View Database & Table Size

In the Instance Details page, click View All under the Databases & Tables section. The Databases & Tables page displays a list of databases and tables with their size in the server. The list is ordered by size. Click an instance in the left pane to jump to its Databases & Tables page.

<table>
<thead>
<tr>
<th>Database</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>mysql</td>
<td>2.54 MB</td>
</tr>
<tr>
<td>information_schema</td>
<td>163.84 KB</td>
</tr>
<tr>
<td>master1</td>
<td>32.77 KB</td>
</tr>
<tr>
<td>sys</td>
<td>16.38 KB</td>
</tr>
<tr>
<td>performance_schema</td>
<td>0 B</td>
</tr>
</tbody>
</table>
Navicat Monitor supports 2 time series charts: Area Chart and Line Chart. To switch between line and area charts, click or .

The time selector is for selecting a time span and an interval (X-axis) to display within the chart. It contains a datetime picker, an interval drop-down menu and panning arrows.

Hint: Zoom in/out of the chart using the mouse wheel to customize the time interval. Click and drag the chart left or right to change the time span.

Move the mouse pointer over a point on the chart to show the time and the legend with metrics at that point. Calculated statistics (Mean, Min and Max) for the selected instance within the sample time are shown at the bottom.
Compare Metrics

You can display metrics of multiple instances on the same chart simultaneously to compare and analysis data. Each line / area on the chart represents the performance of a selected instance. Select the instances in the left pane to add their metrics to the chart. Remove the metrics from the chart in the same way.

Export Charts

All charts can be exported as PDF files. To export the current chart, click .

A Single Chart
A Compared Chart

Statement Rate

User: Admin
Generated: 22 Mar, 2018 5:08 PM (GTM +08:00)
Period: 22 Mar, 2018 3:36 PM - 22 Mar, 2018 4:06 PM (GTM +08:00)
Description: Displays the number of read statements (Com_select + Query_cache_hits) and write statements (Com_insert + Com_update + Com_delete) per second.

- UK Production Server 2, Read Statement Rate: 0.3 s, 0.37 s, 0.3 s
- Testing Server 1, Write Statement Rate: 0.3 s, 0.31 s, 0.3 s

Navicat Monitor by PremiumSoft CyberTech Ltd.
Chapter 5 - Alerts

About Alerts

Navicat Monitor raises alerts when it detects problems across your servers. There is two types of alerts: **Warning** (orange) and **Critical** (red). Warning alert does not affect the performance of the server, but may indicate a problem and require investigation. Critical alert indicates a serious issue which is affecting or will affect the performance of the server. Such issues require immediate attention.

When an alert is raised, it displays on the Alerts History page and the Overview dashboard. Notifications will be sent to the assigned group members or specific people.

You can customize thresholds to trigger alerts for specific instances and groups, and set sending alert notifications to whom. See Alert Policy and Alert Notification for details.

Alert History

View Alert History

In the Alert History page, you can browse through the alert table, open a particular alert, assign it to a user, or select multiple alerts at a time.

The alert table updates automatically to check for new alerts every 60 seconds. It displays the last 10 alerts based on the time when the alerts were triggered. Alerts are sorted by the time they were raised (Start Time). Click a column title to sort by that column.

All monitored instances are shown in the left pane. Select a level to show only alerts related to it.

To change the number of alerts shown per page, click Rows to Display and select a predefined number. By default, all available columns in the list are shown. Click Show / Hide Columns and select the columns that you want to hide. Select Restore Default to restore the list to its default settings.

If you want to view the detailed information of an alert, click on an alert to redirect to its details page. It is automatically marked as read when you open it.
Assign Alerts

1. Hover over the alert and click **Assign to**.

2. Select a user.

3. Click **Assign User**.

Filter Alerts

By default, the Alert History table displays the "Open" alerts in all instances. You can filter the alerts by using the left instances pane, using the predefined filters, or creating your own filters.

**Note:** Applied filter is persisted when you select an instance or a group in the instances pane.

Instances Pane

The Instances Pane controls the instances for which alerts are displayed. If you select a group in the left list, then the table only lists alerts relating to all instances in that group. And, the names of the instances are shown in the page heading.

Predefined Filters

The **Filter** drop-down menu contains several predefined filters for filtering alerts. For example, you can view opened critical or warning alerts, or all opened alerts.

Simply click on **Filter** and select a filter from the drop-down menu.
Advanced Filter

The Advanced Filter enables you to filter your events based on customized criteria. Click **Advanced Filter** to expand the Advanced Filter pane.

To collapse the Advanced Filter pane, click **Advanced Filter** again, or click **Hide Filter** at the bottom of the pane.

Apply an advanced filter

1. In the Advanced Filter pane, choose any combination of filter options you want.

2. Click **Apply Filter**.

Create a user-defined filter

1. After choosing the filter options in the Advanced Filter pane, click **Save as Custom Filter**.

2. Enter the filter name and click **Save**.

3. The custom filter is appeared in the **Filter** drop-down menu.
Alert Details

Click on an alert in the Overview page or the Alert History page to view its details page. In the Alert Details page, you can view the detailed information of a raised alert, mark it as read/unread, open/close it, assign it to a member, add a remark. When you open this page, the alert is automatically marked as "Read".

Information on Alert Details Page

Summary

It displays the current status of the alert, and its raised time and ended time.

Alert Details

It displays the alert name, the explanation of this alert, and the advice from Navicat Monitor which helps you investigate and resolve the issue. Click Add Remark to write a remark for this alert.

Last Occurrences

It lists the least 5 alerts of this type raised for the current instance. Click View All to view all occurrences.

Charts

Various charts are shown depends on the alert type. They display various performance counter values and process information captured around the time the alert was raised. Move the mouse pointer over a point on a chart to read the values.

Assign Alerts

Assign an alert to a member

1. Click Assign to.

2. Select a user.
3. Click Assign User.

Unassign a user

1. In the Assign to column, click on the user avatar.

2. Select Clear Assigned User.
Chapter 6 - Query Analyzer

Start Query Analyzer

The Query Analyzer tool provides a graphical representation for the query logs, enables you to monitor and optimize query performance, visualize query activity statistics, analyze SQL statements, quickly identify and resolve long running queries. To start using Query Analyzer, select an instance you want to analyze in the left pane, and analysis starts immediately. After a while, analysis results are displayed:

Navicat Monitor refreshes the metrics in the Query Analyzer every 60 seconds. To stop or start refreshing the metrics, click the or icon. Server data collection does not stop during the stop period.

Latest Deadlock Query

It shows the transaction information of the latest deadlock detected in the selected instance. You can click View All to view all deadlocks.

Process List

It displays the total number of running processes for the selected instance, and lists the last 5 processes including ID, command type, user, database and time information. You can click View All to view all processes.

Query Analyzer

Query Analyzer collects information about query statements by the following methods.

- Retrieve the General Query Log from the server and analyze the information.
- Retrieve the Slow Query Log from the server and analyze the information.
• Query the performance_schema database and analyze specific performance information.

**Note:** Performance Schema is supported in MySQL Server 5.5.3 or later. Query statements are normalized and the maximum length is 1024 bytes. Similar queries with different literal values are combined. Quoted values and numbers are replaced by "?".

---

**Top 5 Queries**

The top 5 most time-consuming queries are displayed with a graph, giving you an immediate place to observe the potential problems. You can click to refresh and update the top 5 queries list.

- **Top 5 Queries Based on Total Time** - The query statement.
- **Count** - The number of times that the query has been executed.
- **Total Time** - The cumulative execution time for all the executions of the query.
- **User@Host** - The user who executed the query.

---

**Query Table**

The query table provides the summary information for all of the queries executed. Occurrence statistics are calculated and the result is displayed. Hover over a query to show the full query statement and click **Copy Query** to copy it.

Click **Show / Hide Columns** and select the columns that you want to hide. Select **Restore Default** to restore the table to its default settings.

Queries can be filtered and sorted. Simply enter a search string in the **Search for a query** box to filter the table and click the column name to sort the table.

To change the number of queries per page, click **Rows to Display** and select a predefined number. To change the total number of queries in the table, click **Total no. of Queries** and select a predefined number.
View Deadlocks

The **Deadlock** page displays all deadlocks detected on the selected instance that Navicat Monitor has information about.

All monitored instances are shown in the left pane. Select an instance to show its process list.

By default, the deadlock list refreshes every 5 seconds automatically. If you want to change the auto-refreshing time, use the **Refresh Time** drop-down menu. To pause the auto refresh, click 🔄.

Deadlocks can be filtered. Simply enter a search string in the **Search for a deadlock** box to filter the list.

To change the number of deadlocks shown per page, click **Rows to Display** and select a predefined number.

View Process List

The **Process List** page displays all processes currently running on the selected instance. You can check which queries are currently being executed. The process list provides the following detailed information.

- **ID** - The thread ID.
- **User@Host** - The user who issued the statement.
- **DB** - The database that the user is currently used.
- **Command** - The type of command that the user issued.
• **Time** - The time in seconds that the thread has been in its current state.

• **State** - The state that indicates what the thread is doing.

• **Info** - The statement that the user issued.

All monitored instances are shown in the left pane. Select an instance to show its process list.

By default, the process list refreshes every 5 seconds automatically. If you want to change the auto-refreshing time, use the **Refresh Time** drop-down menu. To pause the auto refresh, click the pause button.

![Refresh Time: 5 Seconds](image)

The list of threads can be filtered and sorted. Simply enter a search string in the **Search for a thread** box to filter the list and click the column name to sort the list.

To change the number of threads shown per page, click **Rows to Display** and select a predefined number.

**End Process**

You may find slow or long running queries use lots of available CPU and memory resources and may block other valid queries. To stop a thread instantly, click the stop button in the **Action** column, and then click **End Process** in the pop-up dialog.
Chapter 7 - Replications

Monitored Replications

The Monitored Replications page displays all information related to monitored replication. You can monitor the health of replication, diagnose replication issues and ensure the replication works seamlessly. Navicat Monitor provides detailed information on status, configuration and performance of slaves.

Navicat Monitor supports 2 replication views: Diagram View and List View. To switch the view, click or .

If you want to view the detailed information of a replication, click on a slave to redirect to its details page.

Diagram View

This view visually displays the hierarchy and relationship of master servers and their slaves. Hover over a slave to show its I/O thread and SQL thread statuses.

![Diagram View Diagram]

The instance blocks and the arrows are color-coded to represent the different states of the replication.

- Green block indicates that the server is up (stable).
- Red block indicates that the server is down.
- Green arrow indicates that the replication is up and the slave is up-to-date with its master.
- Red arrow indicates that the replication is down (disconnected) and the slave may be not up-to-date with its master.

Hint: Zoom in/out of the graph using the mouse wheel. Click and drag the graph to move it.

List View

This view shows all registered master servers and slave servers and illustrates the replication details in a table. It groups all master servers with their slaves. Common status information is displayed in columns. Click the arrow to the left of each master name to expand or collapse its slaves status and configuration.
The color bar represents different states of the replication slaves: stable (green), disconnected (red). Hover over it to show the time.

**Export Replications**

You can export the replication diagram and list as a PDF file. To export the replication, click ![Export](image).

**Replication Diagram**

![Replication Diagram](image)
View Replication Details

The Replication Details page displays the detailed replication information for a slave you chosen in the Replication page.

Information on Replication Details Page

Summary

At the beginning of this page, the slave and master servers information are listed. For multi-source replication, you can click the master name to view its replication details.

Replication Up Down Chart
It shows the Up/Down Status chart of the replication. The time selector is for selecting a time span and an interval (X-axis) to display within the chart. It contains a datetime picker, an interval drop-down menu and panning arrows.

Error History

It shows the replication errors occurred during monitoring. To change the number of errors shown, click **Rows to Display** and select a predefined number.

Slave Status & Slave Configuration

These two sections show the result set of the SHOW SLAVE STATUS statement.
Chapter 8 - Commands

Navicat Monitor Commands

You can use the command line to manage Navicat Monitor application on Windows, macOS or Linux. The installation folder or the program path of Navicat Monitor is:

**Windows**

C:\Program Files\PremiumSoft\Navicat Monitor

**macOS**

/Applications/NavicatMonitor.app/Contents/Resources/

**Linux**

/opt/navicatmonitor/x86_64-linux-gnu/

**Note:** On Linux operation systems, commands must be ran by the “navicatmonitor” account.

**Syntax**

navicatmonitor [command]

**Available Commands**

<table>
<thead>
<tr>
<th>Command</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>browser</td>
<td>Open a browser with Navicat Monitor Web URL.</td>
</tr>
<tr>
<td>diagnostic</td>
<td>Show diagnostic information.</td>
</tr>
<tr>
<td>help</td>
<td>Print the help information of any command.</td>
</tr>
<tr>
<td>passwd</td>
<td>Reset the Superuser password.</td>
</tr>
<tr>
<td>restart</td>
<td>Restart Navicat Monitor.</td>
</tr>
<tr>
<td>start</td>
<td>Start Navicat Monitor.</td>
</tr>
<tr>
<td>status</td>
<td>Print the status information of Navicat Monitor.</td>
</tr>
<tr>
<td>stop</td>
<td>Stop Navicat Monitor.</td>
</tr>
<tr>
<td>version</td>
<td>Print the version number of Navicat Monitor.</td>
</tr>
</tbody>
</table>

**Examples**

/opt/navicatmonitor/x86_64-linux-gnu/navicatmonitor stop

C:\Program Files\PremiumSoft\Navicat Monitor\navicatmonitor restart
Chapter 9 - Troubleshooting

Log Files

Navicat Monitor log files have detailed records of all sorts of server errors and messages. These files can help in tracking down any problems with Navicat Monitor. Follow these steps to download the log files:

1. Go to Configurations.

2. Click About.

3. Scroll to the Diagnostics section.

4. Click Retrieve All Log Files to download a .zip file containing log files.