

# **SQUID**

## **Interconnected Sites Monitor**

*By Systeminence*

Version 1.1

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## Document Information

Product Name: SQUID - Interconnected Sites Monitor by Systeminence

Document Version 1.1

## Document Revision History

Revision Date	Author	Summary of changes
11/1/2019	Ramy Abou Haydar	Initial Version 1.0
22/7/2019	Ramy Abou Haydar	Enhanced Version 1.1

## Introduction

This installation and user manual describe the steps to install and use “SQUID-Interconnected Sites Monitor” plugin By Systeminence.

The purpose of this plugin is to provide users at a Milestone XProtect Corporate central site with a detailed overview about all their Milestone Interconnected sites. these details include: Site IP address, name, status, last connection, last disconnection and a reporting tab that could be used for auditing changes done in the interconnected sites.

## Enhancement

This new version release includes feature enhancements and is more stable. A service has been created for collecting data and storing it in an SQL database for reporting purposes. This release is designed to work with any version of Milestone XProtect Corporate between 2018 R1 and newer. In addition, the administrator can now modify the SQL configuration through the Management Client and export a status report out of the system.

## Feature Matrix

### Supported Features

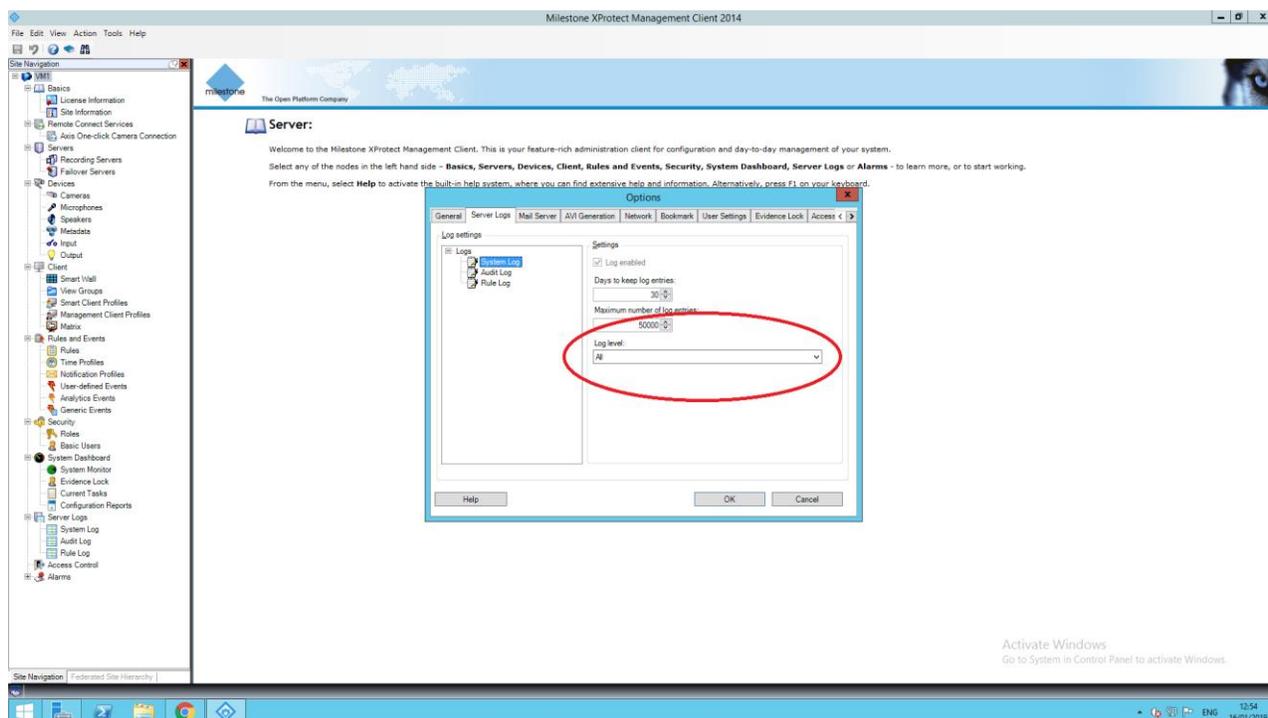
Plugin Feature	Supported (Y/N/NR)*	Notes
Live status monitoring	Y	
Filter between online/ Offline	Y	
Filter by Server Name	Y	
Status filter between 2 dates	Y	
Status reporting	Y	
License per remote site	Y	
Management Client Plugin	Y	

## Pre-Requisites

Milestone XProtect Corporate installed and configured

Prior to installation, verify that Milestone XProtect Corporate Management server is installed and configured in the main site, and all the interconnected sites are added. In addition, verify that Milestone data collector service and Milestone log server service are running.

Make sure to include all log level for the system logs. To do that, open the management client → tools → Options → Server logs and choose “All” from the log level drop down list as per the picture below.



**NB: Please close all windows prior launching SQUID installer to avoid any errors.**

The installation process requires the below steps:

- i. Install .net Framework 4.7.2 to be able to use the plugin.
- ii. Milestone Corporate 2018R1 or above installed.
- iii. Configure SQL server 2016.
- iv. Setup and configure “SQUID-Interconnected site Monitoring plugin”

## Install .net Framework 4.7.2

.net Framework installer can be downloaded using the following this link:

<https://go.microsoft.com/fwlink/?linkid=863265>

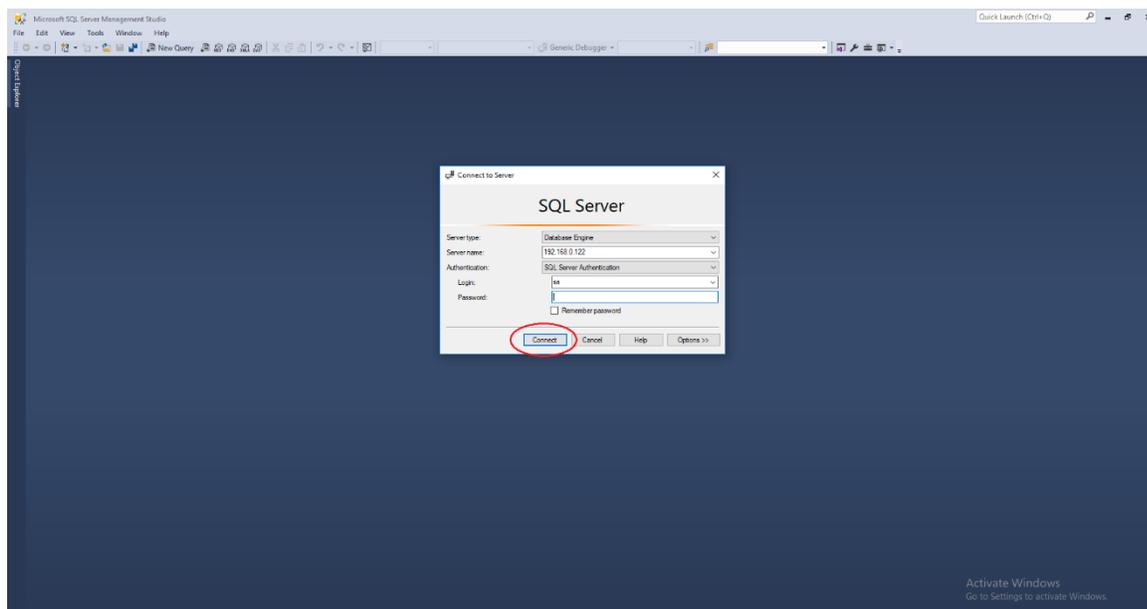
.Net Framework should be installed on every Smart client machine that is going to host the “Interconnected site Monitoring plugin”.

## SQL server 2016 or above configuration

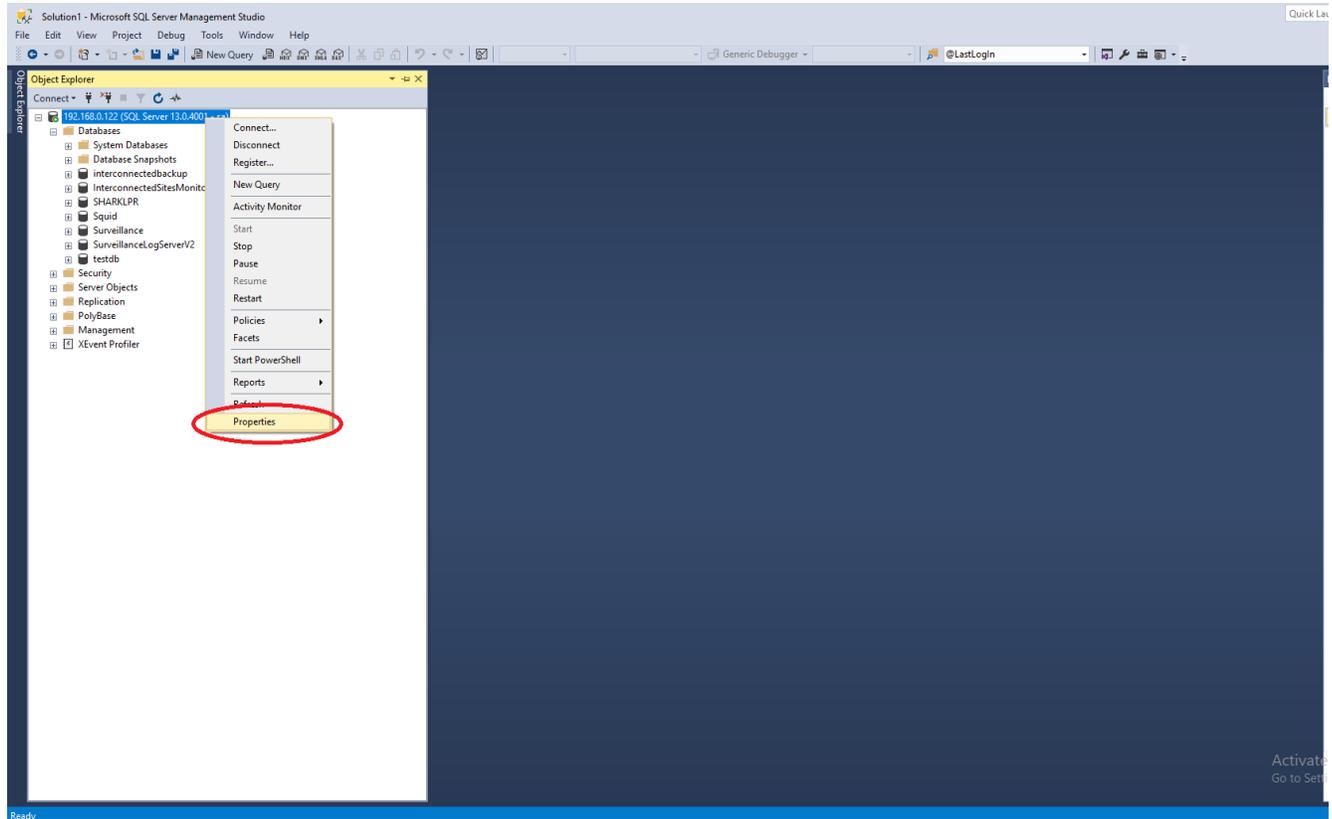
As a pre-requisite to the plugin installation, the SQL server 2016 or above which contains the configuration of Milestone should be configured to accept SQL server authentication and “sa” username to be enabled or create a new SQL login.

In order to configure SQL server, SQL management studio 2016 or above have to be installed.

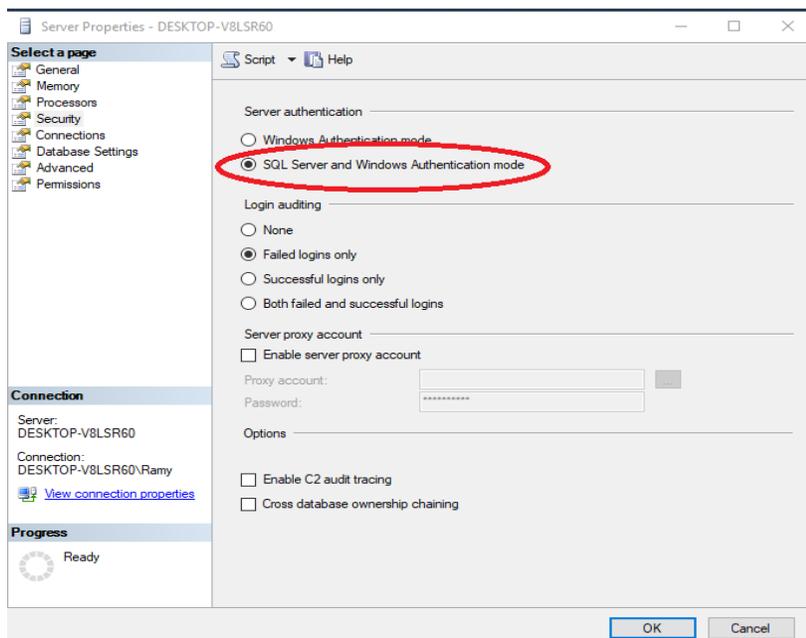
Open and login to SQL Management Studio and click connect



In the left pane, right click the server name and choose properties



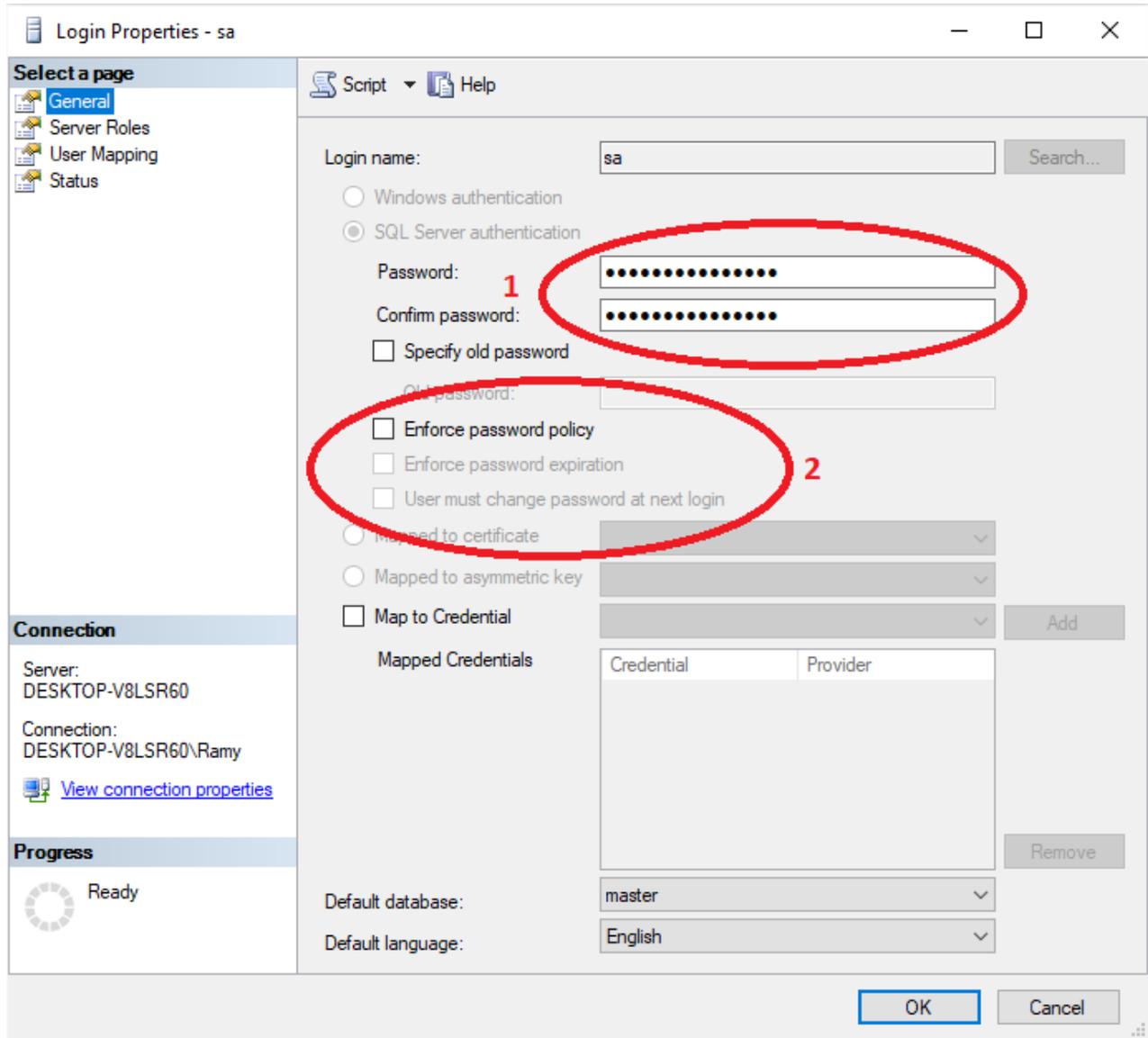
Go to “Security” and enable “SQL Server and Windows Authentication mode”, click OK.



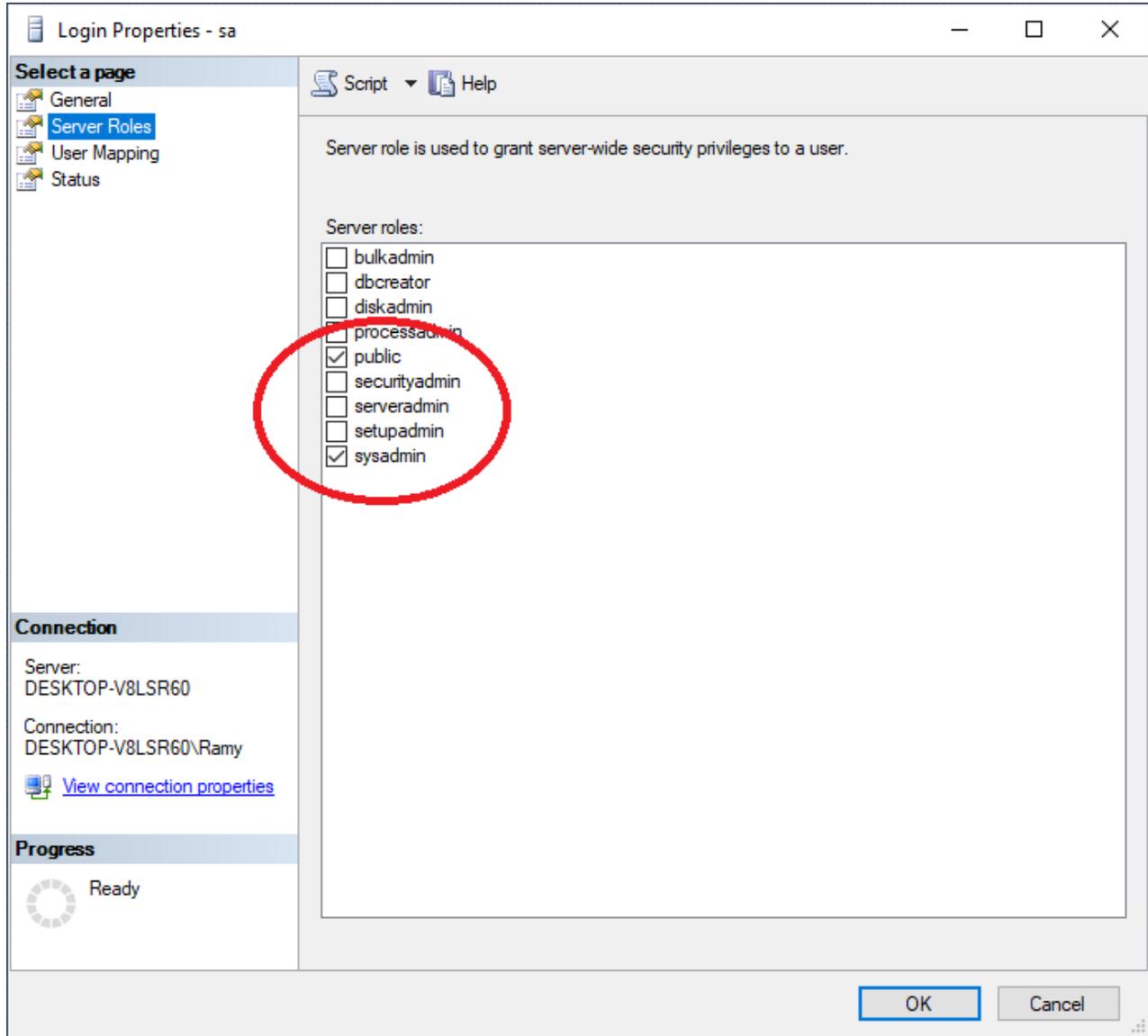
By Default, “sa” user is disabled. To enable it, expand the security tab under the server name than click “Logins”. Right click the “sa” user and open the properties tab.

Click on “General” in the left pane,

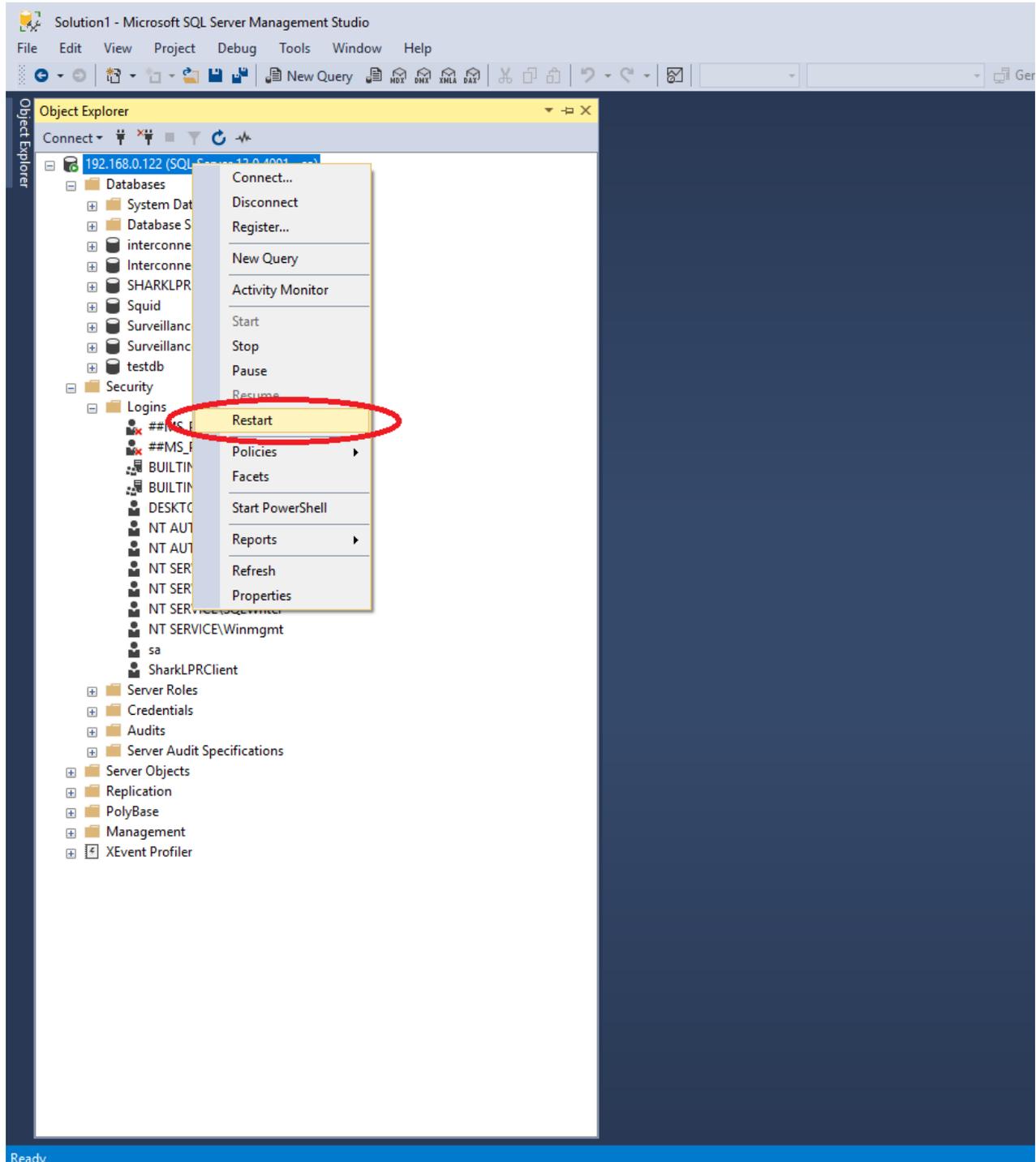
- 1- change the password
- 2- modify password complexity, uncheck if you will use simple passwords.



To assign the server role “Sysadmin”, click on “Server roles”

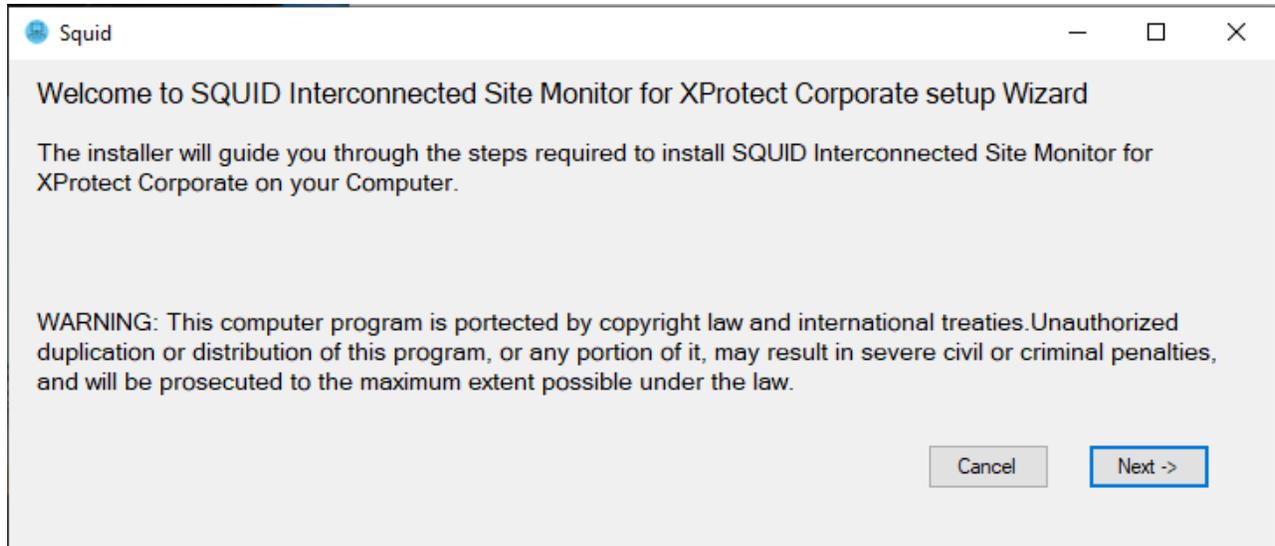


Once done, please restart the SQL. Right click on the server name and click "Restart"

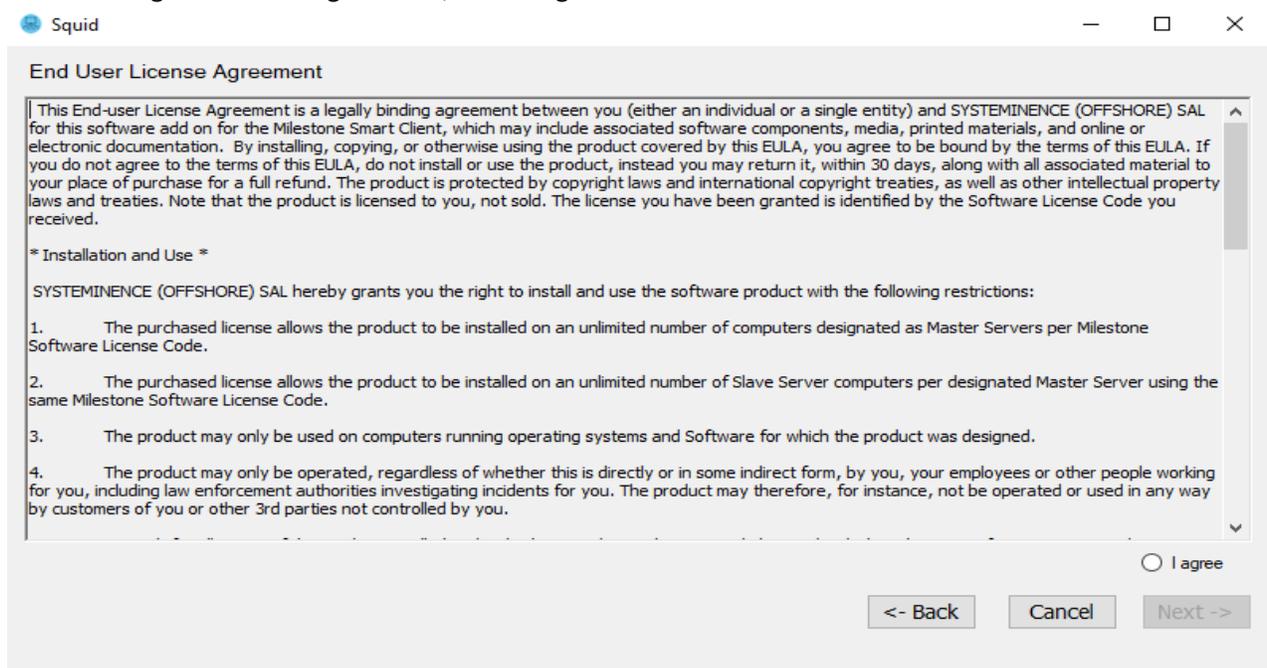


## SQUID Installation

To start the installation, open the SQUID folder and run the SQUID.exe installer **“as Administrator”**. Click **“next”**



After reading the License Agreement, click **“I agree”** and click **“Next”**

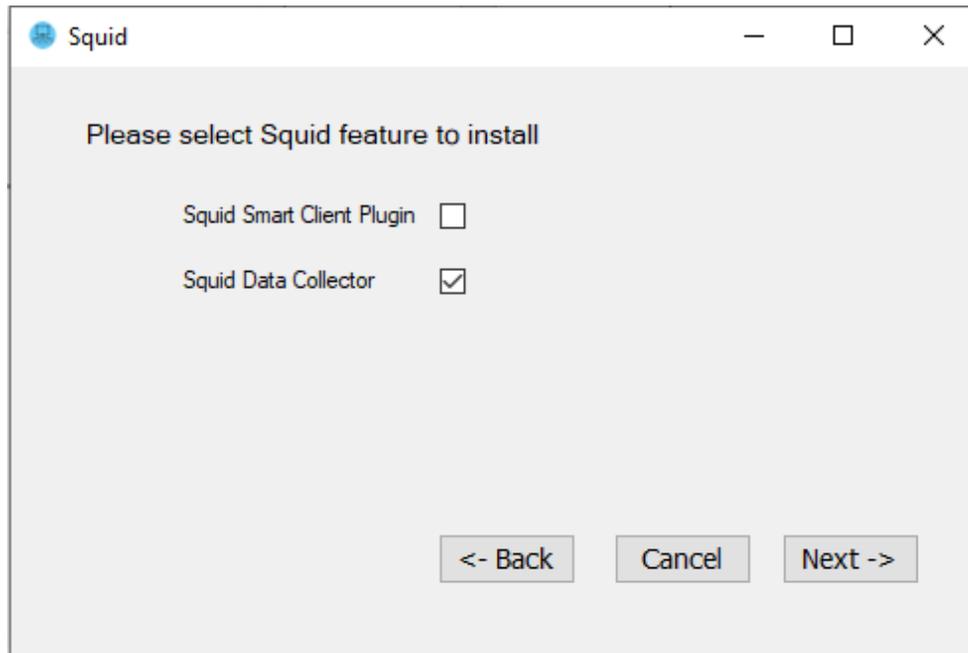


In the window below, you can choose either to install:

- 1- SQUID smart client plugin: This plugin should be installed on Smart Client Workstation that needs to use the SQUID application.

- 2- SQUID Data Collector: This service should be installed on the management server machine. Choose this option to install the SQUID service for data collection and the Management client plugin for updating configuration.

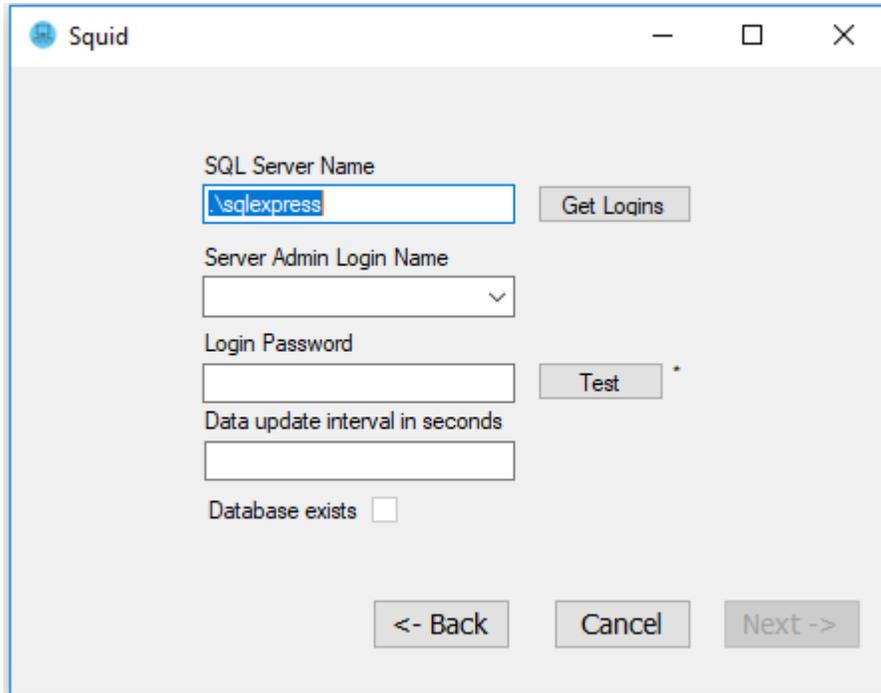
*NOTE: The squid data collector cannot be installed on more than 1 server. If the service is already installed, the "Squid Data Collector" is ticked and grayed out.*



## Squid Data Collector

1. Write the SQL server name and click get logins, all SQL authentication usernames will appear in the "Server Admin Login Name", choose the correct username and enter the password in the "Login Password" and click "Test". A successful connection message box should appear. Otherwise, you will receive a notification if the password is wrong.
2. Configure the "Data Update Interval in seconds" text box to configure the update frequency of the data.

*NOTE: if the SQUID database already exists, the "Database exist" check box will be ticked.*



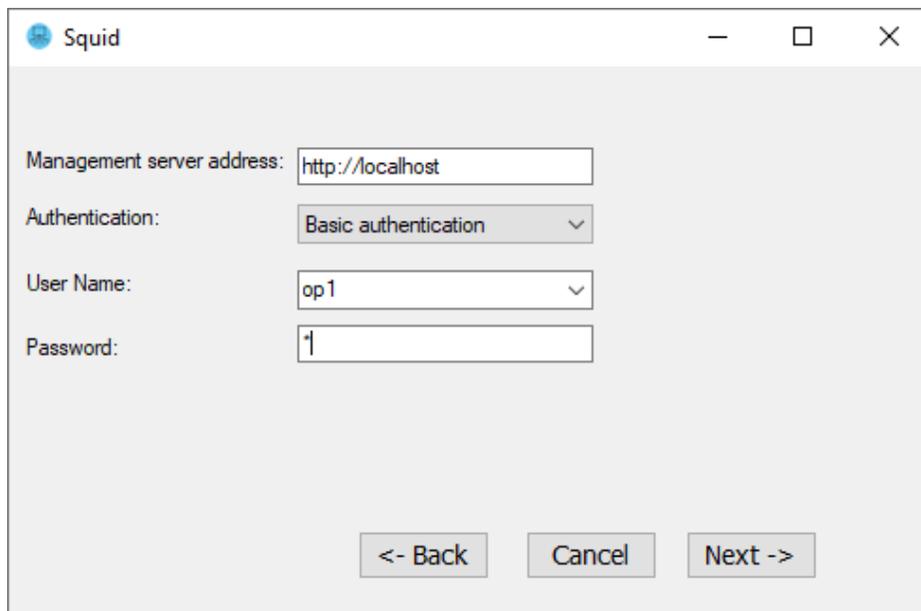
The screenshot shows a window titled "Squid" with the following fields and buttons:

- SQL Server Name:
- Server Admin Login Name:
- Login Password:
- Data update interval in seconds:
- Database exists:
- Navigation buttons:

Once all information is filled, click “Next”

On this page, enter Milestone management server IP address and choose the type of authentication. You can choose 1 of 3 authentication methods:

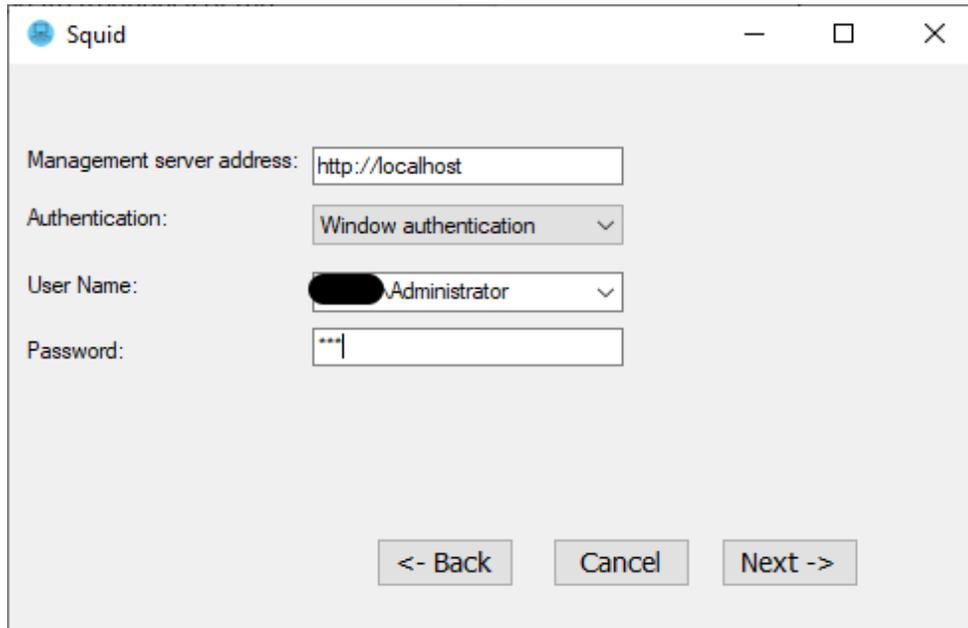
- Basic authentication: from the drop-down list you can choose one of the basic users created inside Milestone. Only basic users that belongs to the Administrator role will be seen in the drop-down list.



The screenshot shows a window titled "Squid" with the following fields and buttons:

- Management server address:
- Authentication:
- User Name:
- Password:
- Navigation buttons:

- Windows authentication: you can choose any windows user related to the target machine

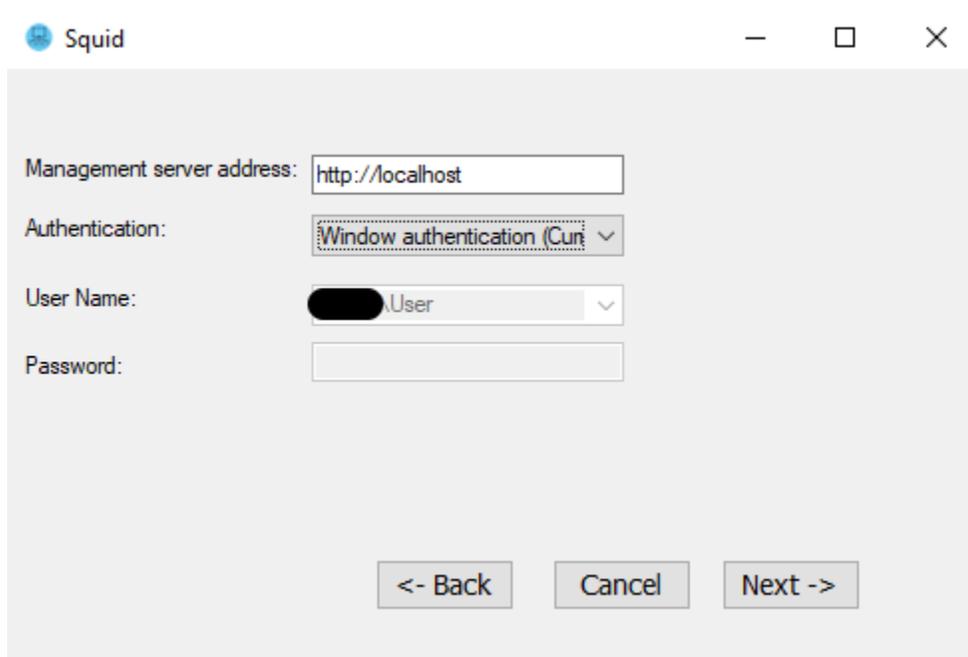


The screenshot shows a window titled "Squid" with the following fields and options:

- Management server address:
- Authentication:
- User Name:
- Password:

At the bottom, there are three buttons: "<- Back", "Cancel", and "Next ->".

- Windows authentication (current user): the installer will use the currently logged in user.



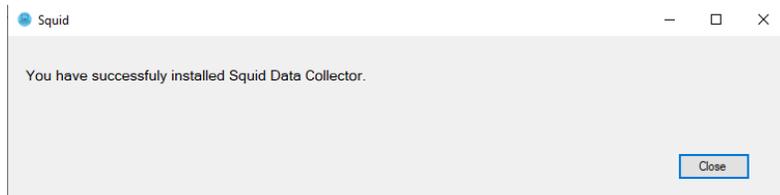
The screenshot shows a window titled "Squid" with the following fields and options:

- Management server address:
- Authentication:
- User Name:
- Password:

At the bottom, there are three buttons: "<- Back", "Cancel", and "Next ->".

Once ready, click next.

You will receive the below message if the installation was successful.



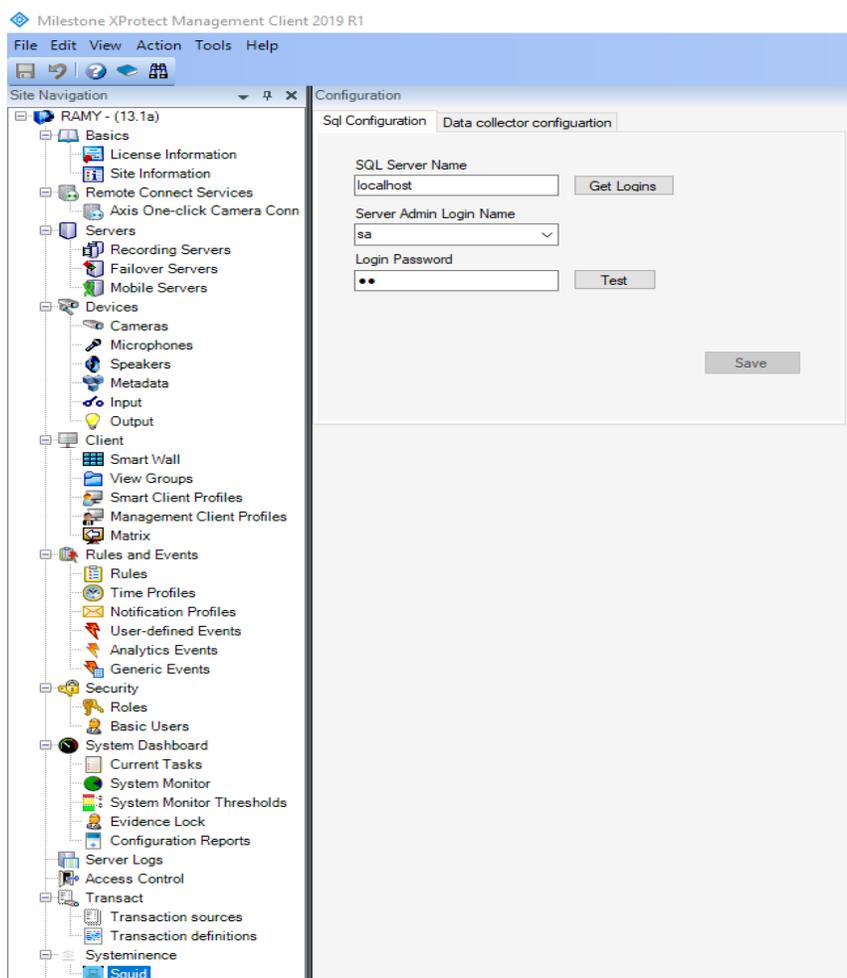
*NOTE: Squid service will run automatically once installed. Please check the “services” in the “Task Manager” and make sure the service is running.*

## Squid Management Client Plugin

In this release, the plugin is installed on the same server of the data collector.

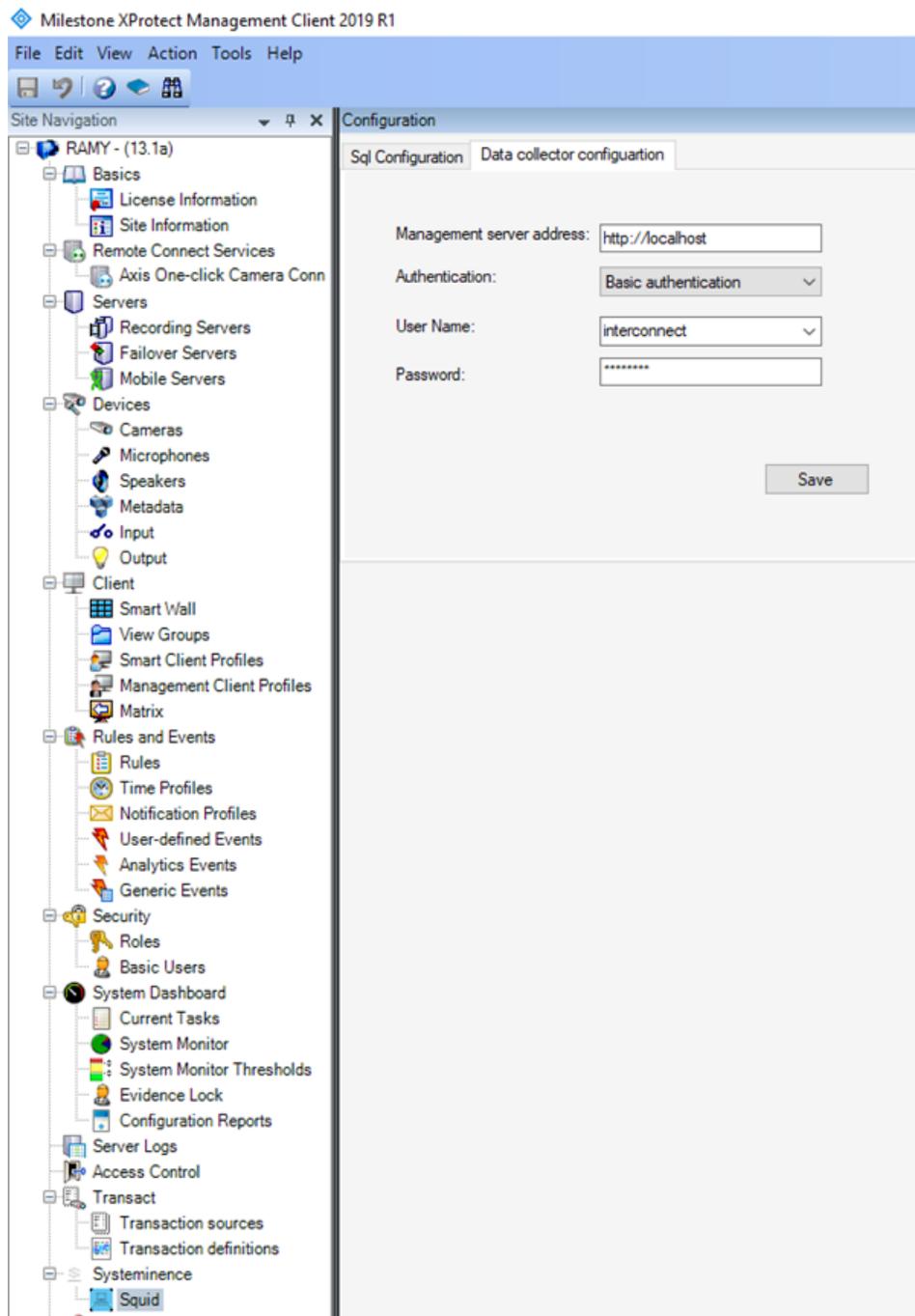
To modify the SQL server configuration, the administrator can update the settings through the management client:

- SQL configuration tab



To modify the Data collector configuration, the administrator can update the settings through the management client:

- Data Collector Configuration



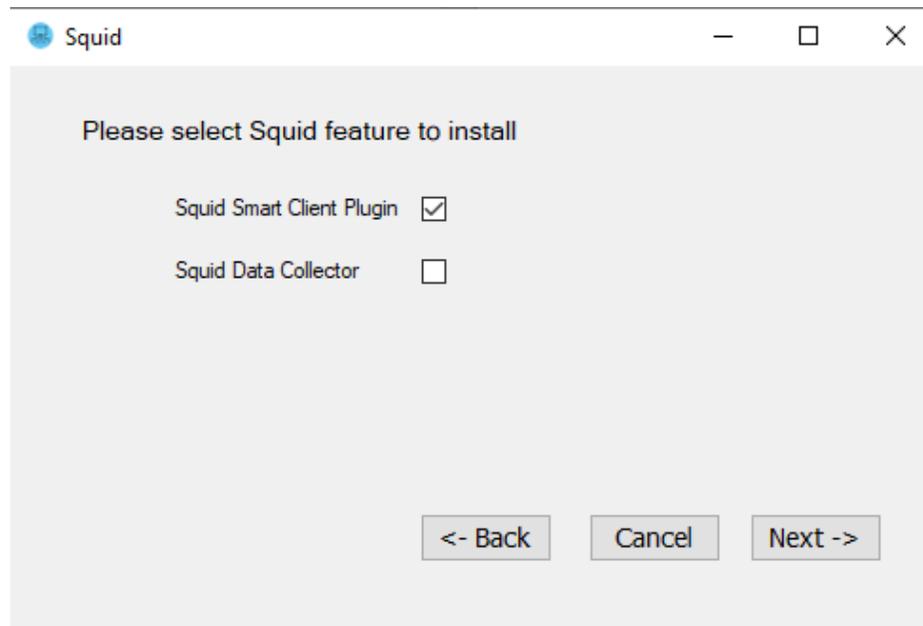
*NOTE: Management client should "run as administrator" to automatically restart Squid service after configuration update.*

## Squid Smart Client Plugin

**NB: Please make sure that Smart Client is closed prior starting the installation**

In order to start monitor the status of the interconnected remote sites, you will have to install the “*Squid Smart Client Plugin*”.

To start the installation, run the setup and choose “*Squid Smart Client Plugin*” and click “*Next*”

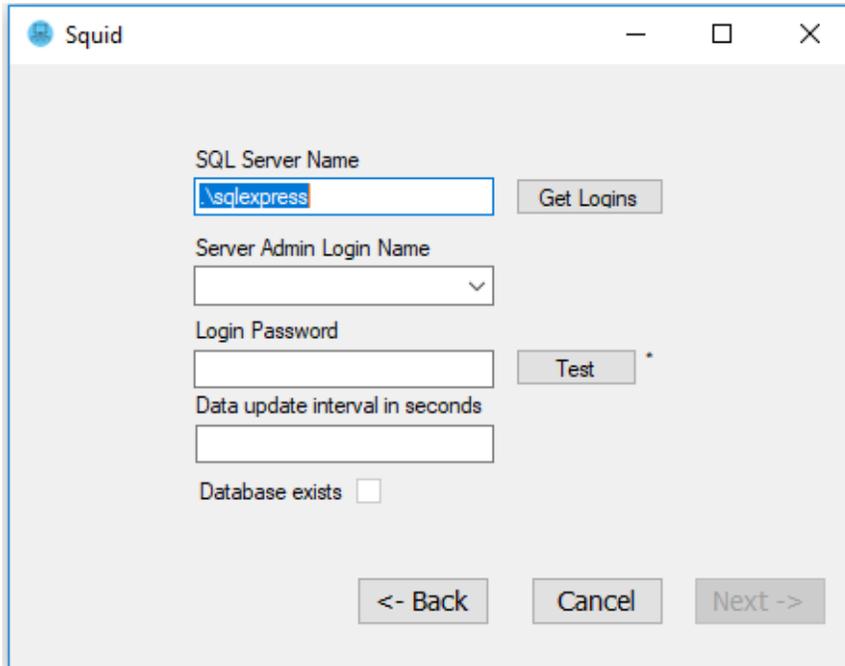


1. Write the SQL server name and click get logins, all SQL authentication usernames will appear in the “*Server Admin Login Name*”, choose the correct username and enter the password in the “*Login Password*” and click “*Test*”. A successful connection message box will appear.

You will receive a notification if the password is wrong.

2. Configure the “*Data Update Interval in seconds*” text box to assign the update frequency of the data.

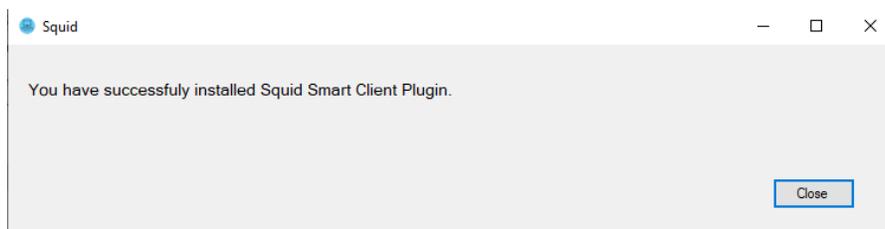
*NOTE: if the database already exists, the “Database exist” check box will be ticked.*



The screenshot shows a window titled "Squid" with the following fields and buttons:

- SQL Server Name:  (highlighted)
- Get Logins:
- Server Admin Login Name:
- Login Password:
- Test:
- Data update interval in seconds:
- Database exists:
- Navigation buttons: , ,

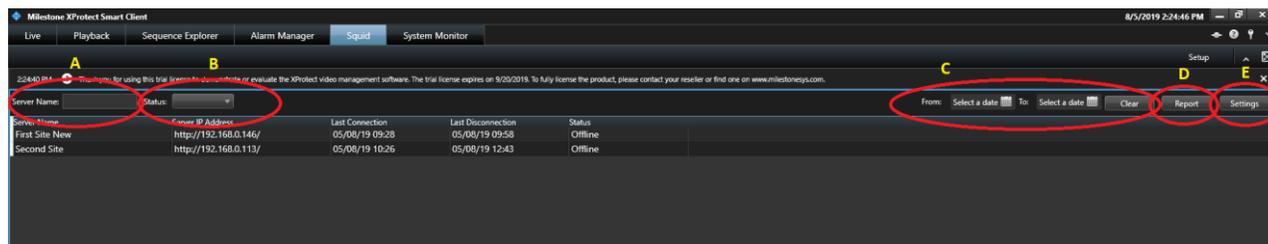
Once all information is correct, click “Next”. If the installation is successful, you will receive the below message.



## Licensing

The license for the monitoring tool is per remote site and linked to your SLC. In order to issue a license for your clients, please send your client’s SLC number to [support@systeminence.com](mailto:support@systeminence.com) and once you get a confirmation email, please reactivate your license.

## Plugin Functionality



- 1- Plugin tab: Click on this tab if you want to view its content
- 2- Filter by:
  - A. Server name: Use the server name to filter the targeted server
  - B. Status: Chooses between “Online” or “Offline” to filter by server status
  - C. From – To: Filter between 2 dates
  - D. Report: to extract reports out of the system
    - i. Type of the user activity reports:
      1. User added site: “Server name” added between predefined 2 dates
      2. User deleted site: “Server name” deleted between predefined 2 dates
      3. User Renamed site: “Server name” renamed between predefined 2 dates
      4. User added multiple sites: Site(s) added between predefined 2 dates
      5. User deleted multiple sites: Site(s) deleted between predefined 2 dates
      6. User renamed multiple sites: Site(s) renamed between predefined 2 dates
      7. User changed site IP address: Site(s) replaced between predefined 2 dates
  - E. Settings: Use this tab to modify the SQL configuration of the plugin in case the IP address or SQL authentication changed.

## FAQ

- 1- My Smart Client crashed after requesting a status report: Always make sure to close all previous requested reports
- 2- The Smart Client has no data: make sure to have Squid service running and authentication with SQL server is established
- 3- Squid service not restarted after updating configuration in the Milestone Management client: The Management client plugin should be started with “Run as administrator”

*For more information, please contact [support@systeminence.com](mailto:support@systeminence.com)*