



# SafePeak

For Microsoft  
SQL Server 2000, 2005, 2008 and 2012

## Installation Guide v2.2



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This guide was prepared for SafePeak for SQL Server version 2.1 and version 2.2

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## 1. Introduction

Welcome to SafePeak for Microsoft SQL Server. This guide explains how to install and set up SafePeak v1.3. SafePeak dramatically accelerates data access and retrieval providing immediate results, with no need to change existing databases or applications. Increasing database response time from SQL database queries and enhancing system scalability by orders of magnitude, SafePeak ensures high availability for mission-critical applications and safeguards against unpredictable traffic spikes and surges of usage.

We have tried to streamline the SafePeak installation to make it easy and straightforward to install. The information contained in this guide will direct you in preparing for the installation of SafePeak and successfully executing the software into place.

Please use the Mapping Table in the Appendix Section to assist you in the installation. Please collect this information before proceeding with the installation.

## 2. Minimum System Requirements

SafePeak has been tested and verified with Microsoft SQL Server 2000, 2005, 2008 and 2012. Please make sure that the server on which you plan to install SafePeak meets the minimum system requirements for the program to run: **You must only install ONE SafePeak instance at one time otherwise you could cause serious system instability.** If other applications, programs or data have previously been installed on your server, they may interfere with SafePeak. We recommend removing all software, before installing SafePeak to avoid the possibility of serious problems.

Deployed on Windows 2008 R2 / Windows 2008 64 Bit:

RAM	4GB per SafePeak Instance Minimum 8GB
CPU	2 Cores Per SafePeak Instance, Minimum 1 CPU / 4 Cores
Hard Drive	70GB for each SafePeak Instance
Network Cards	1Gb Ethernet, or similar to the SQL Server network card

**Actual system requirements (CPU Cores, RAM and Disk) vary between different installations and depend on the database load (transactions / second) of each instance.**

Typical installation for 1 SQL Instance, 2000 tran/sec: 8 CPU Cores + 12GB RAM.

Typical installation for 1 SQL Instance, 5000 tran/sec: 16 CPU Cores + 24GB RAM + 100GB disk.

Typical installation for 2 SQL Instances, 1000 tran/sec each: 8 CPU Cores + 16-20GB RAM + 100GB disk.



### 3. How to Install SafePeak

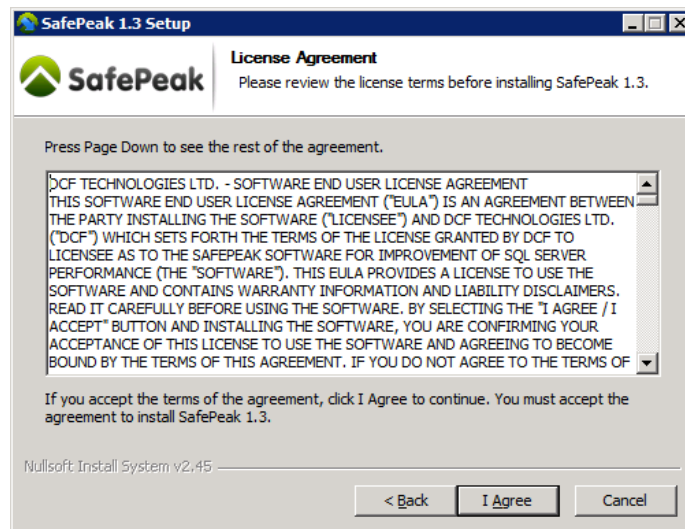
Copy the SafePeak installation executable onto the SafePeak dedicated server. You can either run as console or use remote desktop to start the installation. When installing from the CD, the install wizard will pop up automatically. If the pop up does not appear, go to the root directory of the CD and double click on Setup.exe. Click Next to continue.



\* Some the of the screenshots show version 1.3, however the

### 4. License Agreement

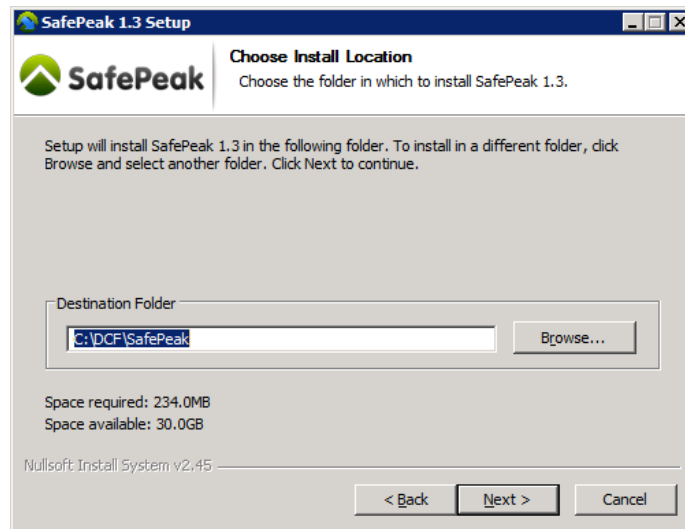
The license agreement will appear. Please read the license agreement and if you agree to the terms and conditions, click on I AGREE to move forward in the installation.





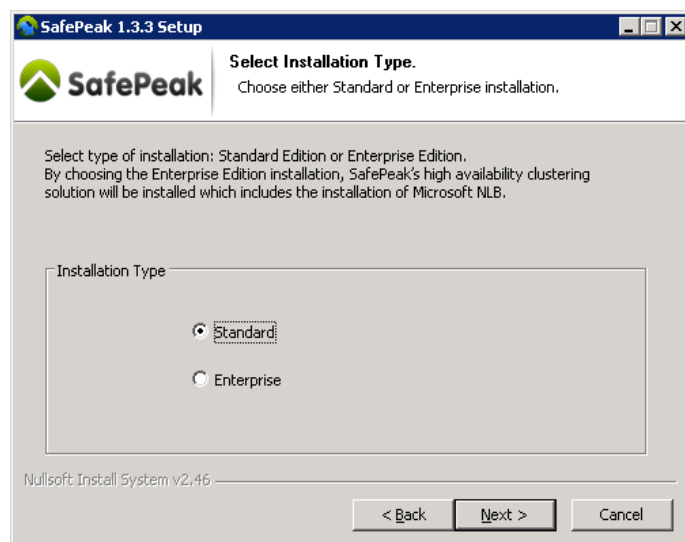
## 5. Where to Install SafePeak

The next screen determines in which directory SafePeak will be installed. The default directory is C:\SafePeak. If you would like to install SafePeak in a different directory, please browse to choose a destination folder. The minimum free space available on the disk is 30 GB. Press Next to initiate the installation of SafePeak.



## 6. Choosing the Installation type

Select the installation type (standard or cluster). If you are installing SafePeak on a Virtual Machine, skip this section and go to section 8.





## 7. Setting Up Microsoft NLB with Virtual IP

This step is relevant only for physical machine installation, if you are installing on a VM please proceed to section 8.

There are two fields that need to be filled in the next screen.

1. The IP address is used to define the Virtual IP. All connection strings will use this IP address to redirect the network traffic to SafePeak. The IP address should be in the same segment as the database server. Your IT systems manager should provide the IP address.
2. The second field is the Interface Name on which the Virtual IP will be created. Make sure that it has static IP with the same subnet mask as you entered in the first field. Click on Next.

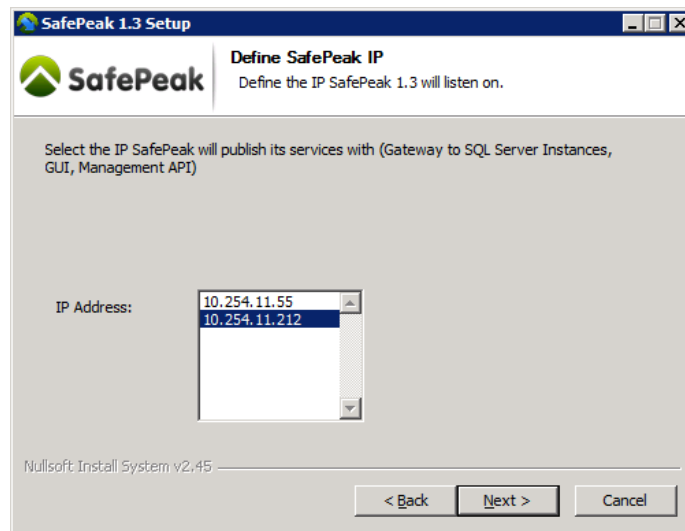
Note: This is not the IP address configured for the SafePeak server. It is a secondary IP address used for the SafePeak cluster.

A screenshot of the "SafePeak 1.3 Setup" window, specifically the "Define SafePeak IP" step. The window has a blue title bar and a white header area with the SafePeak logo and the text "Define SafePeak IP" and "Define the IP SafePeak 1.3 will listen on." The main content area is light gray and contains instructions: "Enter the IP SafePeak will publish its services with (Gateway to SQL Server Instances, GUI, Management API)", "The IP must be on the same Network segment as the SQL Server Instance and registered in the DNS as static", and "SafePeak installation will create Microsoft NLB cluster if it does not exist". Below this is a section titled "SafePeak Cluster" containing two fields: "IP Address:" with a text input box, and "Interface Name" with a dropdown menu currently showing "Local Area Connection". At the bottom left, it says "Nullsoft Install System v2.46". At the bottom right, there are three buttons: "< Back", "Next >", and "Cancel".



## 8. Define SafePeak IP

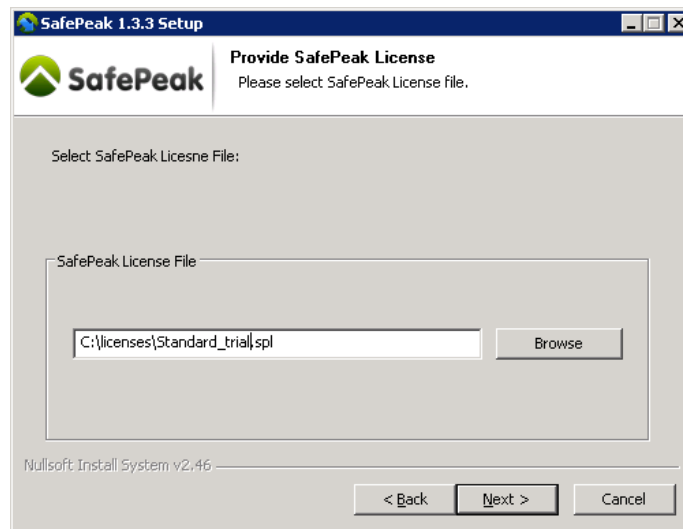
This step is relevant for installation on a virtual machine. This screen will appear if the Server / VM has several IPs and it allows you to select the IP SafePeak will use.



## 9. Adding SafePeak License

Browse to physical location on your hard drive where SafePeak license file is located.

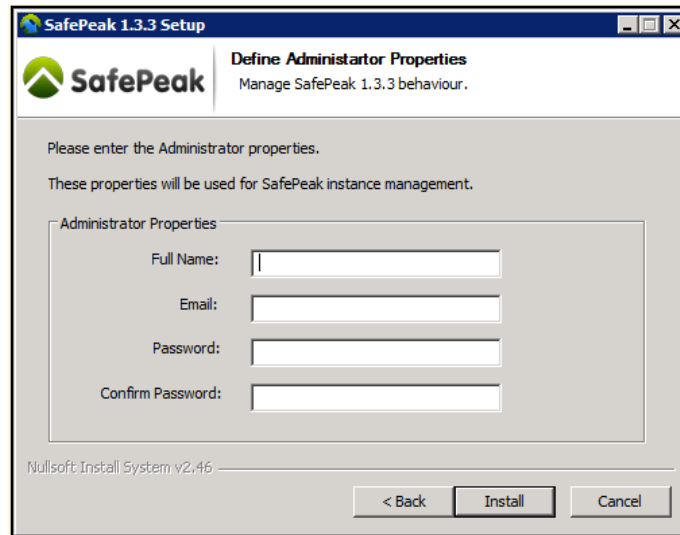
In case you are installing a trial version: you can skip this step a 14 days trial license will be automatically installed.





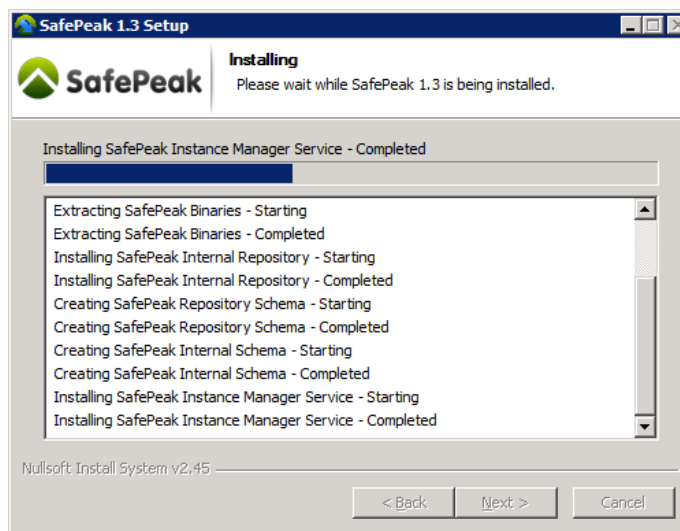
## 10. Administrator login details

Please enter SafePeak Administrator full name, email and password. These credentials will be used for login to SafePeak Dashboard. Additional logins with more limited operational permissions can be inserted later inside SafePeak Dashboard.



## 11. During Installation

The installation consists of various steps including directory creation, file extraction, creation of SafePeak internal repository, addition of windows features such as .NET 3.5 framework, and IIS as needed and the configuration of Windows NLB (for dedicated server).





## 12. When the Installation Is Complete

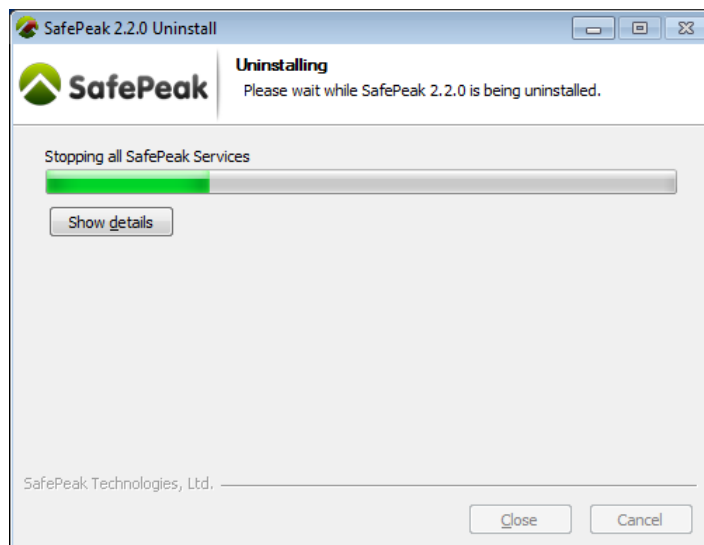
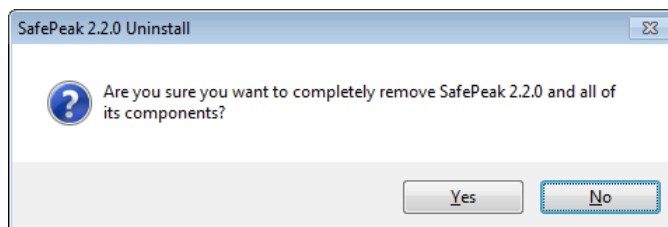
When the installation is complete a new screen will appear enabling you to start SafePeak and add instances. Simply check the box Start SafePeak UI and click on Finish to invoke SafePeak GUI to start adding database instances.



***Go to section 14 to begin adding database instances.***

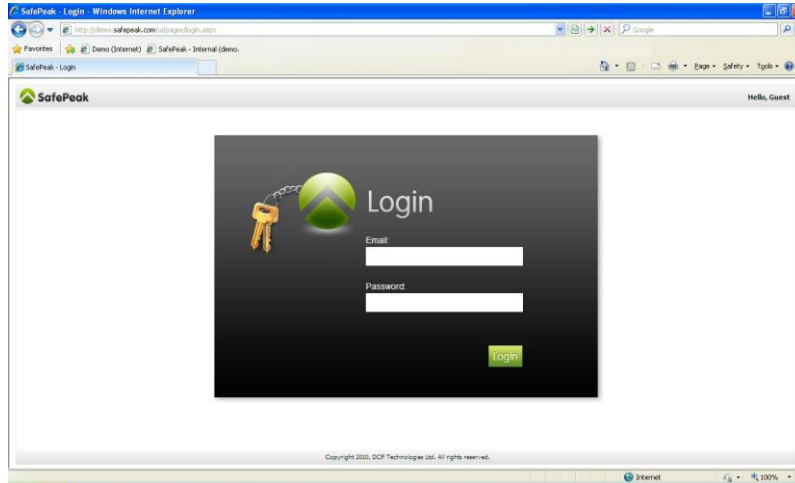
### 13. Uninstall SafePeak

SafePeak can be uninstalled using the Add/Remove Programs in the Control Panel or from Start->Programs->SafePeak->Uninstall. After clicking the uninstall button, a confirmation question will pop up. Click Yes to uninstall SafePeak or No to cancel. The uninstall process will remove all SafePeak services, internal repository, delete files and delete the directories created in the installation process.

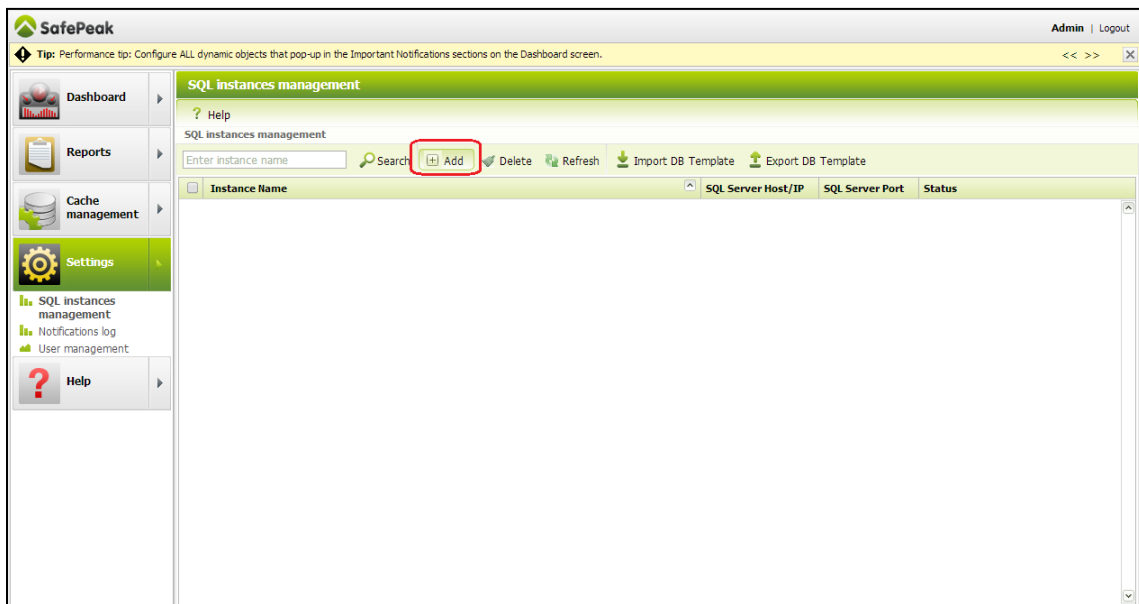


## 14. Adding Database Instances

SafePeak automatically provides a default email address and password. Press Login to continue.

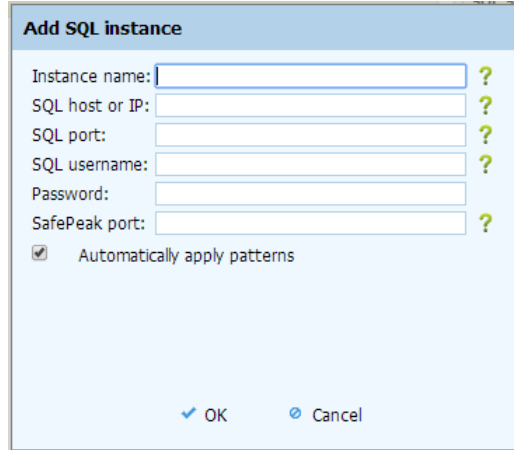


Go to Settings tab and click on the SQL Instance Management to add new instances.



Click on the Add button at the top of the screen.

The Add Instance dialog box will pop up. Enter the requested parameters as follows:

The image shows a dialog box titled "Add SQL instance". It contains several input fields: "Instance name:", "SQL host or IP:", "SQL port:", "SQL username:", "Password:", and "SafePeak port:". Each field has a small green question mark icon to its right. Below these fields is a checkbox labeled "Automatically apply patterns" which is checked. At the bottom of the dialog box are two buttons: "OK" with a blue checkmark icon and "Cancel" with a blue circle and slash icon.

1. **Instance Name** – This name will appear in SafePeak Dashboard. Tip: use the same name as the SQL Server Instance
2. **SQL host or IP** – The IP address or Host name for the SQL Server instance
3. **SQL port** – The port that the SQL Server instance is configured. Verify that your SQL Server Instance Port is set to be Static port.
4. **SQL username** – The login for the SQL Server. SafePeak requires limited permissions only (view any definition. To see exact permission click on the ? mark.  
In case the SQL Server Agent will be configured to run via SafePeak (using Alias), this login must have sysadmin privileges.
5. **Password** – The password of the SQL username
6. **SafePeak Port** – The port which SafePeak will use for this instance.
  - If you have only one Instance, use the same port as your SQL Server Instance.
  - For multiple SQL Instances – best practice is to add “1000” to each additional instance (1433, 2433, 3433 etc), in order to prevent ports conflicts (each SafePeak instance is actually uses several ports for internal processes).

**Click OK** and the new instance will appear in the table of instances.

Alert Line - at the top of the screen, the alert line will notify you that the instance was successfully recorded to be installed. It usually takes about 10 seconds until the installation process begins.



## How to configure SQL Named Instance

SafePeak fully supports SQL Server Named Instances, for example: *MyDBServer\InstanceName*.

To configure a named instance:

- 1) In the “**SQL host or IP**” – place only the host or IP of your server. Example: *MyDBServer*
- 2) In the “**SQL port**” – place only the Instance port. To find your instance port see “?” help:

Enter your SQL Server instance static TCP Port.

If you use dynamic ports, then you should do the following:  
Open [SQL Server Configuration Manager] -> [SQL Server Network Configuration] -> [Your Instance] -> [TCP-IP] -> [IP Addresses] -> [IP All].  
Set value of [TCP Port] the same as in [TCP Dynamic Port].  
This way the same port will continue to work even after restart of your SQL Server.










- 3) SafePeak port can be the same or can differ from your SQL Server instance port.  
SafePeak will be able to forward your application to the right port.  
Your application can connect to SafePeak as it is a regular named instance:  
*SafePeakIP\InstanceName*
- 4) In the connection string for the *InstanceName* use the real SQL Instance Name.

The installation process contains several phases:

- **Installing** – All needed services, firewall ports, directories are created
- **Learning instance structure** – The Metadata Learning Service starts learning the instance structure and creates the dependency relations. The process usually takes several minutes, but can also take few hours for SQL Instances with many databases and very complex schemas. The 8/15 represents learning status = learning of 8 databases completed out of total 15.

Status
Learning instance structure (8/15)

While learning schema the **Dashboard** screen will show “**Cache: Disabled(DDL)**”.  
Queries can arrive but the Cache is disabled/locked:

MyDBServer2			
	 DB Host: localhost	 DB Port: 2433	
	 SafePeak Port: 34330	 Cache Hit: 0%	
	 Open Connections: 0	 Execs/Sec: 0	
	 SafePeak: Enabled	 Cache: Disabled (DDL)	

- **Active** – The Metadata Learning Service has completed learning the Instance Structure and SafePeak is ready to accept requests for this instance.



**When the installation is finish – verify on Dashboard:**

“SafePeak” and “Cache” status should be “Enabled”.

The screenshot displays the SafePeak Dashboard interface. On the left is a sidebar with navigation links: Dashboard (selected), Reports, Cache management, Settings, and Help. The main content area is titled 'Dashboard' and includes a 'Help' link. Below this, it shows the 'Main / Cluster IP:10.254.11.14' and a section for 'ALON-LAP (localhost)' with system metrics: SafePeak Ver. 2.2.0.3, Status: Active, 2 CPU 4GB RAM, HD: 227GB, 40GB free, Memory: 79.14%, CPU: 14.61%, and Uptime: 1 d, 4 h. The 'SQL server instances' section features 'MyDBServer' details: DB Host: localhost, DB Port: 2433, SafePeak Port: 24330, Open Connections: 0, Execs/Sec: 0, Cache Hit: 0%, SafePeak: Enabled, and Cache: Enabled. At the bottom, there is an 'Important Notifications' section with a scrollable area.

Please reference the product help included in SafePeak to continue. Please send any comments or questions regarding this installation guide to [support@safeppeak.com](mailto:support@safeppeak.com).

## 15. Appendix – Connecting the Application to SafePeak

In order to connect the application to SafePeak, there are few steps to follow:

### 1. Option 1: Connect application using WINDOWS\System32\Drivers\Etc\hosts file

You may choose to reroute your application by changing the “hosts” file on all application servers. This way all database access will be immediately rerouted via SafePeak.

Example:

# SafePeak IP	Database Hostname
10.10.10.245	MyDBServerName

### 2. Option 2: Update database connection string in the application

All the database traffic has to be routed via SafePeak. In order to do that, you need to change the database connection string from the Database server to SafePeak server. The connection string can be found in web.config files (for web servers) or the application management screen (SharePoint, etc.)

The change itself is simple, examples:

- In .Net connection string with default Ports:
  - From: `Server=myDatabaseServerIpOrName;Database=myDataBase;User Id=myUsername;Password=myPassword;`
  - To: `Server=mySafePeakServerIpOrName;Database=myDataBase;User Id=myUsername;Password=myPassword;`
- In .Net connection string with non-default ports:
  - To (IP comma Port):  
`Server=mySafePeakServerIpOrName, SafePeakPort;Database=myDataBase;User Id=myUsername;Password=myPassword;`
- In JDBC:
  - From: `jdbc:sqlserver://[db server]:[db port];databaseName=db1`
  - To: `jdbc:sqlserver://[safepeak server]:[safepeak port];databaseName=db1`



## 16. Configuring Dynamic Objects and Manual SQL Patterns

Configuring Dynamic Object and Manual SQL Patterns configuration is done after the application is connected and sent its queries for 30 minutes or more. This configuration part is critical and can make a difference between 1% cache to 90% cache. The following matters will be addressed:

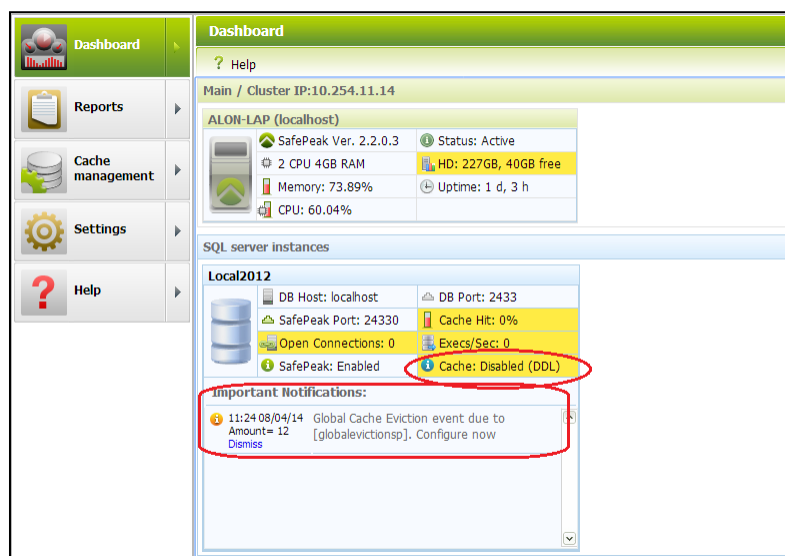
1. Dynamic Objects
2. Non-automated SQL Patterns (non-deterministic SQL queries' patterns).

### Dynamic Objects

Dynamic Objects are database objects that SafePeak Metadata Learning service couldn't fully understand. Most common objects are "stored procedures" and "user defined functions".

In such cases, SafePeak takes the safest course of action to ensure data correctness. However, this reduces SafePeak cache efficiency when the object is used. By default, when a dynamic object is executed, SafePeak addresses it as follows:

- **Evict All Cache** – SafePeak clears all data from the cache and disables SafePeak cache for the duration of the current transaction;
- **Consider possible DDL execution** – After the statement is executed, SafePeak sends the SafePeak Metadata Learning service a request to analyze the database, and maintains the cache disabled for the duration of this analysis. This shows up in the SafePeak Dashboard as "Cache: DISABLED (DDL)";
- **Contains possible TCL execution** – After the statement is executed, SafePeak analyzes the database response to determine if a transaction was opened or closed in the database;
- **Possibly Non-Deterministic** – SQL statements that reference or execute these objects will not be auto-applied.





**In most cases, by configuration of all required dynamic objects, it is possible to significantly increase SafePeak cache efficiency.**

There are four main options for an object to become “dynamic”:

a) **Dynamic SQL execution.**

The object contains statements that dynamically create an SQL and execute it. Although SafePeak knows how to scan the dynamic SQL in procedures, it may not fully understand it in cases where the SQL is based text-based parameters.

b) **Encrypted objects**

SafePeak username does not have the permissions to access the SQL text to determine what the object does.

c) **CLR objects**

SafePeak handles SQL objects and does not try to understand objects written in CLR.

d) **SQL parsing failure**

On rare occasions, the SafePeak parser may find a statement it cannot parse in the object’s SQL text and the object is considered and treated as “dynamic”.

## **Configuration of Dynamic Objects**

Definition in SafePeak of any object includes:

- a) Boolean flags: Evict All Cache, DDL command inside, Transaction inside, Deterministic query.
- b) Dependencies: 1) READ, WRITE of tables and views; 2) Exec of Stored Procedure and functions.

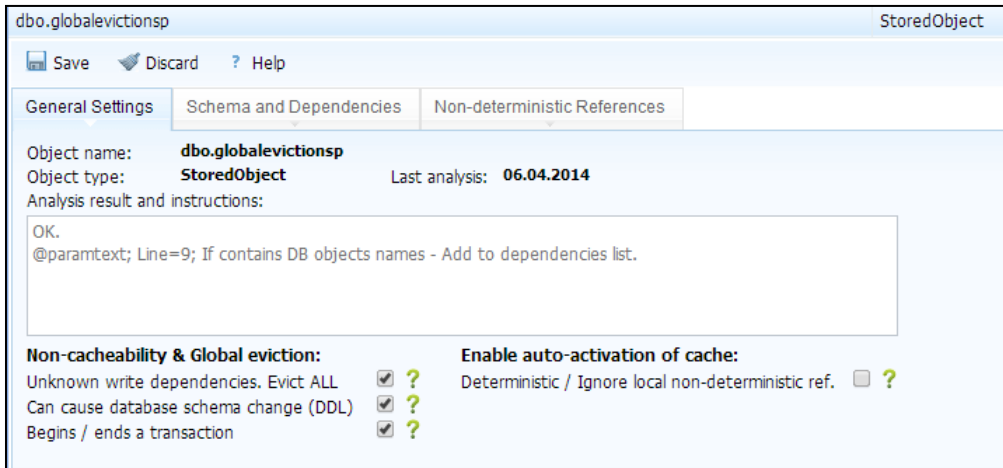
### **What objects require configuration:**

The focus of configuration should be on the actually executed dynamic object. See them in:

1. **Dashboard** – Important Notifications area
2. **Cache management \ [Instance] \ [Database] \ Dynamic Objects (TAB):**
  - a. Require Attention filter
  - b. All Dynamic Objects where “% of Dyn. Traffic” > 0%.

## How to configure:

1. Open the object:



The screenshot shows the 'General Settings' tab for the object 'dbo.globalevictionsp'. The object type is 'StoredObject' and the last analysis was on '06.04.2014'. The analysis result states: 'OK. @paramtext; Line=9; If contains DB objects names - Add to dependencies list.' Below this, there are two sections: 'Non-cacheability & Global eviction' and 'Enable auto-activation of cache'. The first section has three checked items with question marks: 'Unknown write dependencies. Evict ALL', 'Can cause database schema change (DDL)', and 'Begins / ends a transaction'. The second section has one unchecked item with a question mark: 'Deterministic / Ignore local non-deterministic ref.'.

dbo.globalevictionsp StoredObject

Save Discard ? Help

General Settings Schema and Dependencies Non-deterministic References

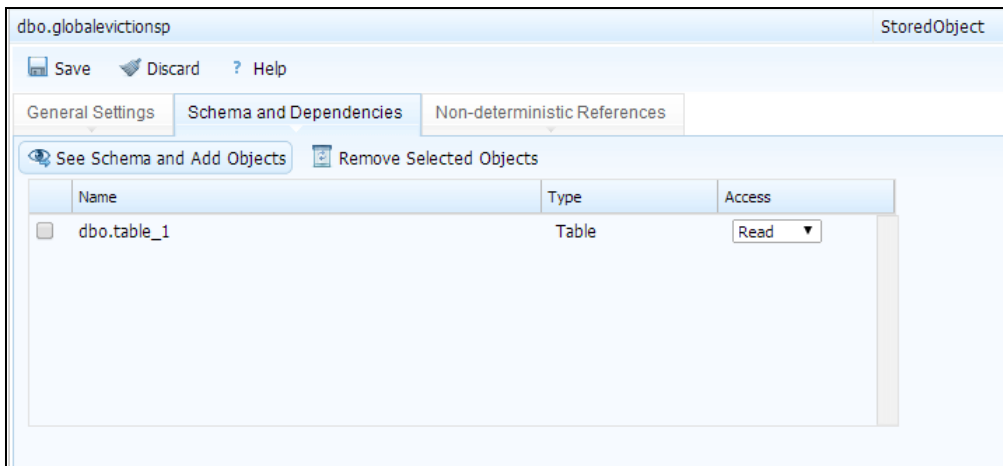
Object name: **dbo.globalevictionsp**  
Object type: **StoredObject** Last analysis: **06.04.2014**  
Analysis result and instructions:  
OK.  
@paramtext; Line=9; If contains DB objects names - Add to dependencies list.

**Non-cacheability & Global eviction:**  
Unknown write dependencies. Evict ALL ☒ ?  
Can cause database schema change (DDL) ☒ ?  
Begins / ends a transaction ☒ ?

**Enable auto-activation of cache:**  
Deterministic / Ignore local non-deterministic ref. ☐ ?

2. Read the “Analysis Result and instructions” – information what needs to be configured.
3. See object schema and configure its dependencies:

“Schema and Dependencies (tab)” → “See Schema and Add Objects”:



The screenshot shows the 'Schema and Dependencies' tab for the object 'dbo.globalevictionsp'. It features a table with columns 'Name', 'Type', and 'Access'. There is one entry: 'dbo.table\_1' of type 'Table' with 'Read' access. Above the table are buttons for 'See Schema and Add Objects' and 'Remove Selected Objects'.

dbo.globalevictionsp StoredObject

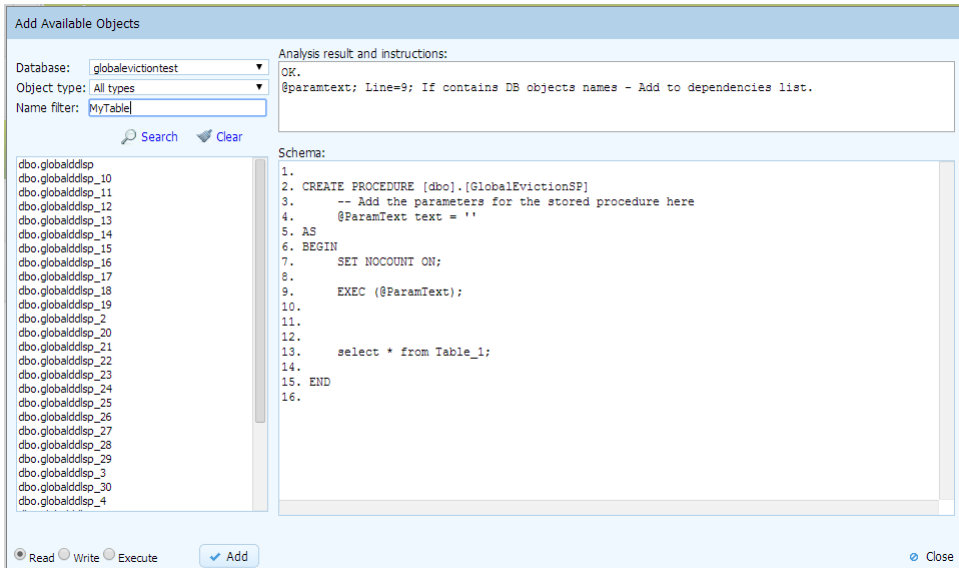
Save Discard ? Help

General Settings Schema and Dependencies Non-deterministic References

See Schema and Add Objects Remove Selected Objects

Name	Type	Access
<input type="checkbox"/> dbo.table_1	Table	Read ▼

- Review the “Analysis result and instructions” line by line and add (if needed) missing objects either as Read/Write/Execute dependencies.



Add Available Objects

Database:  Object type:  Name filter:

Analysis result and instructions:

OK.  
@paramtext; Line=9; If contains DB objects names - Add to dependencies list.

Schema:

```
1.  
2. CREATE PROCEDURE [dbo].[GlobalEvictionSP]  
3.    -- Add the parameters for the stored procedure here  
4.    @ParamText text = ''  
5. AS  
6. BEGIN  
7.    SET NOCOUNT ON;  
8.  
9.    EXEC (@ParamText);  
10.  
11.  
12.  
13.    select * from Table_1;  
14.  
15. END  
16.
```

☒ Read ☐ Write ☐ Execute

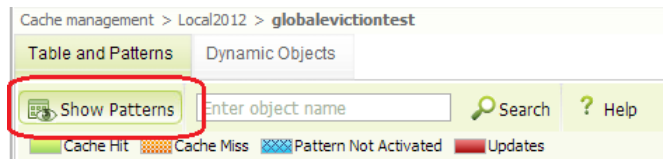
- Configure the Object Information flags. Near every checkbox there is a “?” help icon with detailed explanation about the flag purpose.  
**When possible, uncheck all right checkboxes** (Evict ALL, DDL, Transaction)
- Click Save.

## Manual activation of Non-Automated SQL Patterns

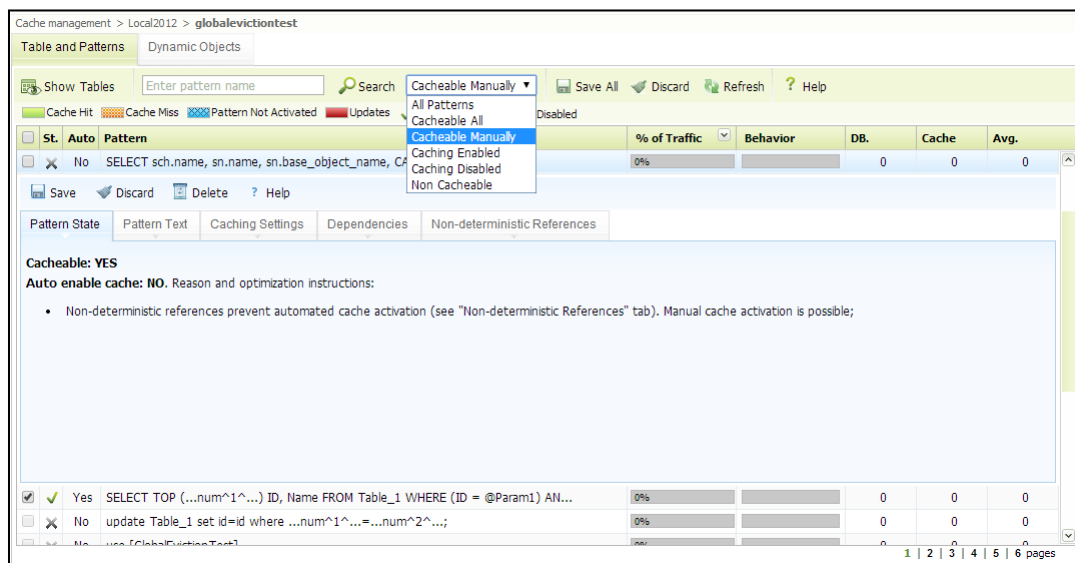
In cases the sql pattern or its referenced stored procedures are using non-deterministic functions the SafePeak will define such pattern as non-deterministic (Auto=No). Non-deterministic functions are those that each function execution a return different result. Most common example is getdate() or getutcdate(). In such cases SafePeak caching is not always possible, and the Administrator of SafePeak needs to active/configure the caching manually.

1. Enter the SQL Patterns area:

**Cache management \ [Instance] \ [Database] \ Show Patterns (button)**



2. Select “Cacheable Manually” filter.



3. Review and configure settings of all/most SQL Patterns.  
**Focus on sql patterns that have slow database response time and/or high % of traffic.**
4. If you make changes to the pattern click **Save()**.
5. To Activate caching – **Select the checkbox to ON.**
6. **Click Apply()** when you finish configuration of all patterns



In many cases knowing the application or reading the query helps determine that the sql pattern can be set for cache. For example: “***select datepart(day, getdate())***” is a cacheable query, as the result remains the same until 00:00:00 o’clock. Another example is when a user knows that certain column all date values are set to date only, like “***12-Apr-2010 00:00:00***” so all queries that have a getdate() condition to such column will have the same result within scope of single day. A use third case is when a small period of caching can create great benefit to the application. In all these cases it is up to the SafePeak Administrator to activate and configure caching of the pattern.

In these cases, the pattern can be manually applied and configured, with or without advanced caching rules, for providing performance and scalability for the application and the database.



## 17. Appendix – Connecting SQL Server Agent to SafePeak

If you have SQL Agent active and SQL Agent Jobs that perform changes on the database then you need to reroute those jobs via SafePeak. This is done by defining an **alias** for SafePeak and set this alias as the connection for the SQL Server agent.

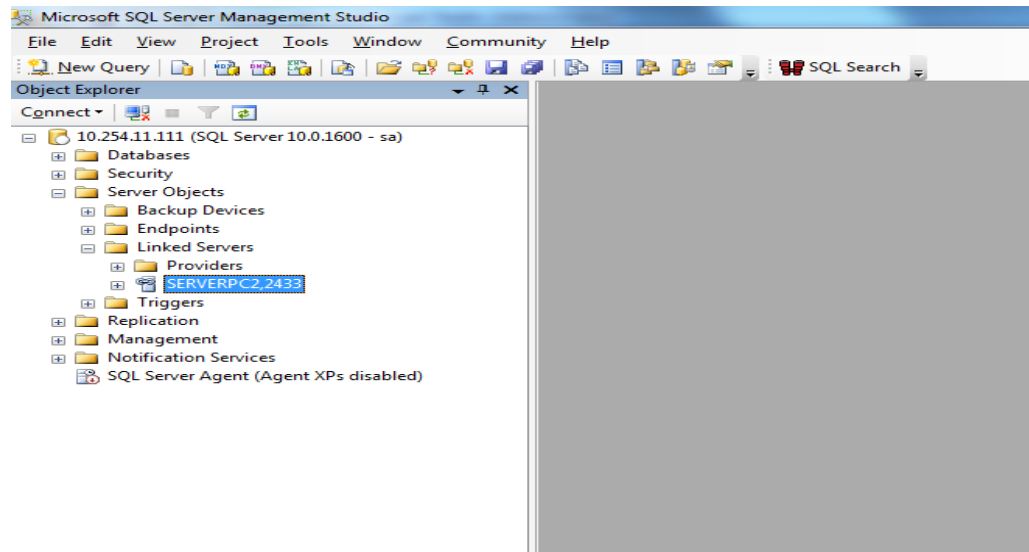
It is crucial that you will connect the SQL Server Agent to SafePeak, otherwise you may find data inconsistency as critical WRITE commands do not update SafePeak cache.

To configure the SQL Server Agent please refer to “Configuring-SQL-Agent” document in the SafePeak website: <http://www.safepeak.com/Product/Resource-Library/Configuring-SQL-Agent>.

## 18. Appendix – Connecting Linked Servers to SafePeak

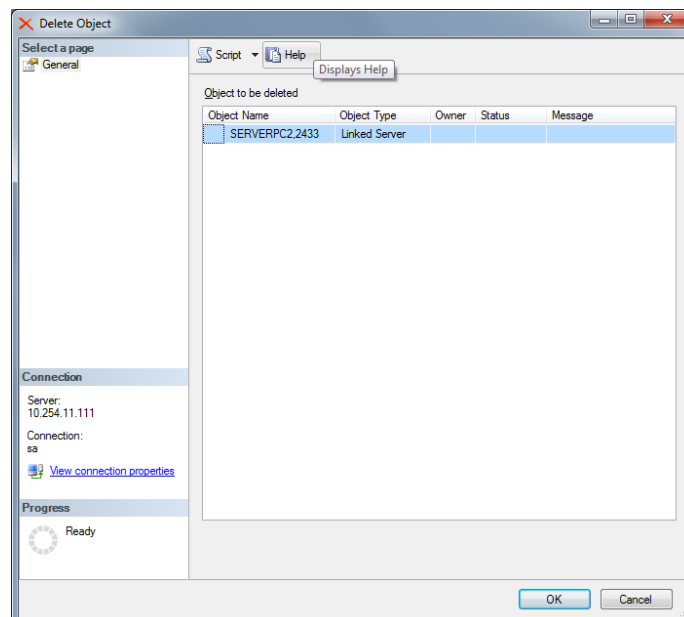
In order to redirect linked server to work with SafePeak instead of the SQL Server instance do the following:

1. Open SQL management studio and connect to the SQL Server instance in which the link server is defined



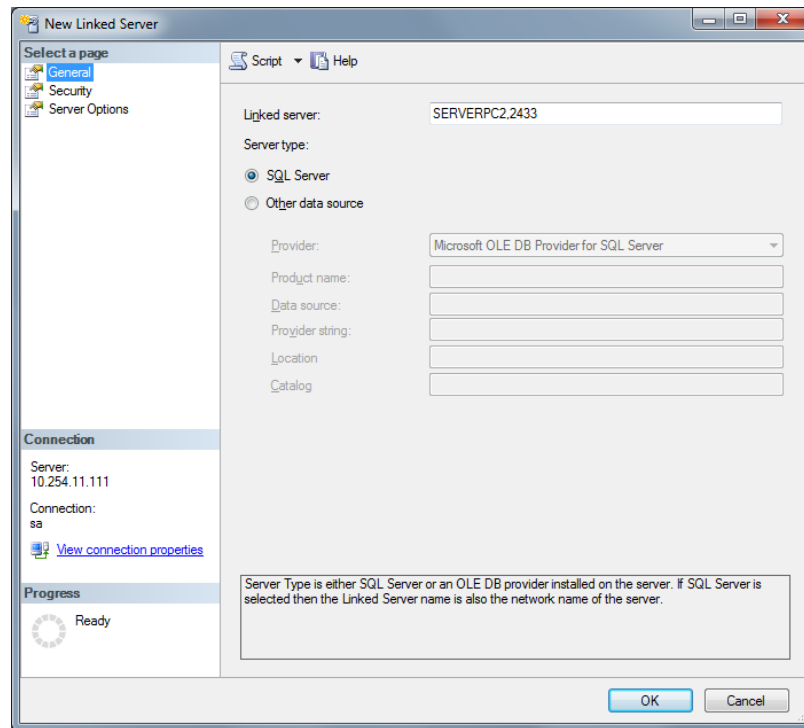
Review the link server security definition as it will be required when creating a new link server

2. Create an alias with the exact name of the link server pointing at SafePeak server as explained in the Appendix on section 16
3. Delete the existing linked server definition (right click->delete) press ok in the delete object window.





4. Create a new linked using the alias defined earlier



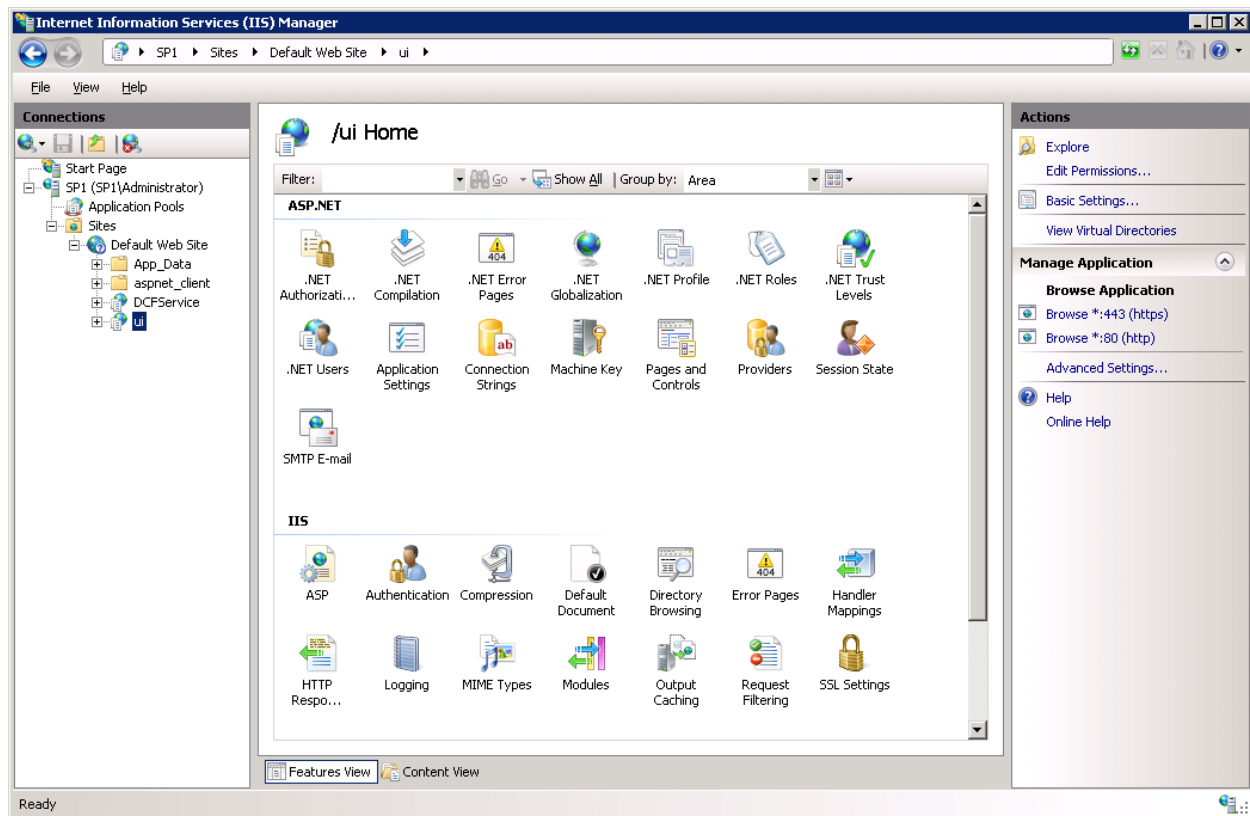
Setup the security properties as were defined in the original linked server

## 19. Appendix – IIS troubleshooting

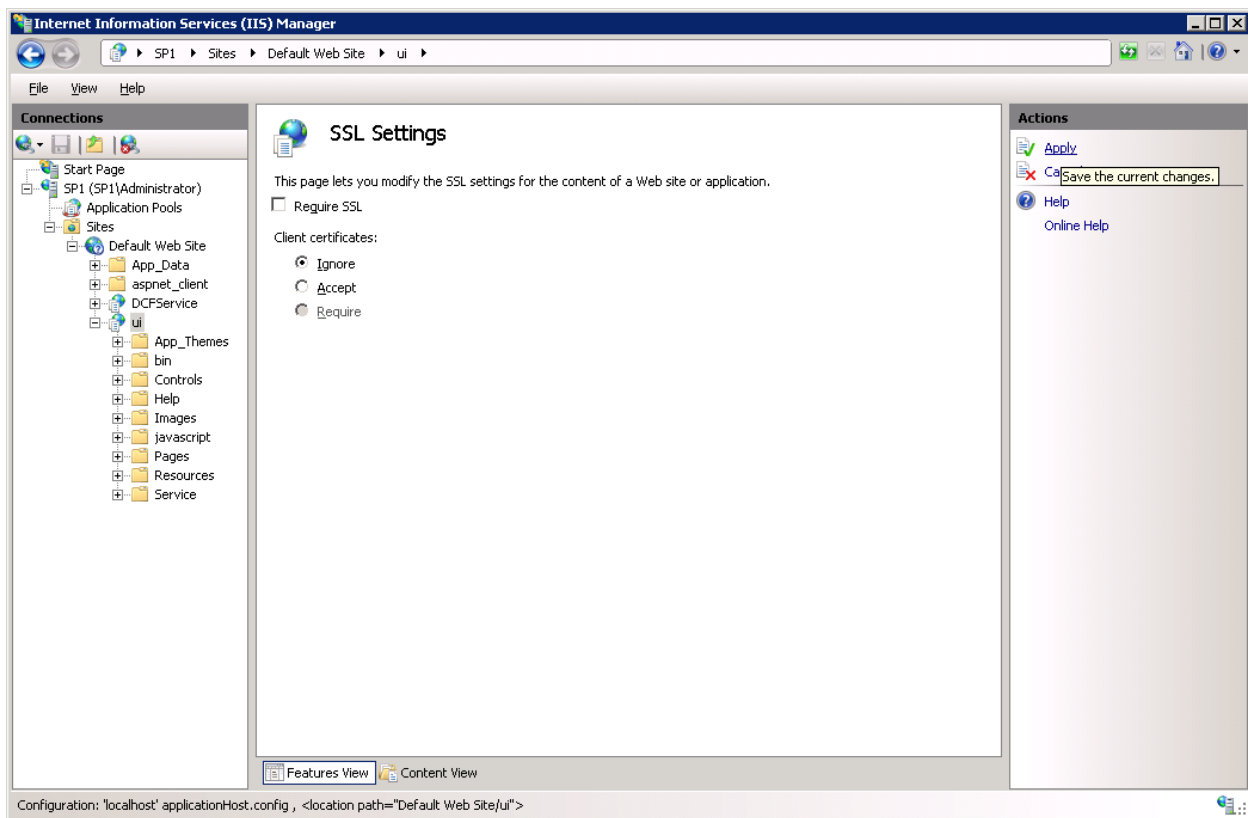
When installing SafePeak on an existing or restored machine, there might be issues with opening and logging-in into the SafePeak management interface. In case you encounter those issues please do the following:

1. SSL configuration – In the current version, SafePeak does not support SSL configuration. SafePeak requires SSL to be set to ignore on both sites defined on the SafePeak machine.

Open the IIS configuration on SafePeak machine and expand the tree until you reach 'ui' and 'DCFSservice', choose 'ui' and open the 'SSL settings' by double click on the icon



Set the 'Client certificates' button to 'Ignore' and click 'Apply' on the top right.



### Repeat this operation for 'DCFSservice'

2. .Net Framework registration – If you had .Net Framework 4.0 installed prior to SafePeak installation, you will need to re-register the .Net Framework in order to Login into the SafePeak UI

Open command line as administrator on SafePeak machine

Change directory to c:\Windows\Microsoft.NET\Framework64\[version folder]\

Currently the highest version folder is 'v4.0.30319'

Run the following command:

```
aspnet_iisreg.exe -iru
```

Perform login into SafePeak management UI



## 20. Appendix – SafePeak user permissions

### 1. Metadata Learning Permissions

SafePeak requires **VIEW ANY DEFINITION** permission and **ability to access each database**, in order to learn the structure of the database and read the definition of stored procedures.

This can be done in the following way:

1. Open the server properties (right click on the server), select “Permissions” page  
Find SafePeak login and grant it “View any definition” + Press OK
2. Open the properties of the SafePeak login, Select “User Mapping” page  
Check all (or just specific) databases that SafePeak needs access to + Press OK

### 2. Metadata Learning Login to Schema mapping

For Metadata purposes we compile a list of Login to default schema for each database.

To get this list the user logged for Metadata need to have permission to see other Logins.

SafePeak requires to grant SafePeak login with **ALTER ANY LOGIN on SERVER** permission.

### 3. SafePeak Logon Trigger

For SafePeak to work with Logon trigger SafePeak needs **VIEW SERVER STATE** permission.

For Logon trigger installation SafePeak need **CONTROL SERVER** permission.

For management on SQL Server the list of logins to ignore a read & write permission on: Master.dbo. SafePeakLoginListToIgnore.

The Logon trigger is created automatically on the database server during action of first connection of SafePeak to the SQL Instance (Add Instance in SafePeak interface → Settings → SQL instances management).



For Sales and Technical Support please visit [www.safepeak.com](http://www.safepeak.com)

This guide is frequently updated to reflect changes in the product. The latest version can always be accessed by customers under support at [www.safepeak.com/download](http://www.safepeak.com/download)