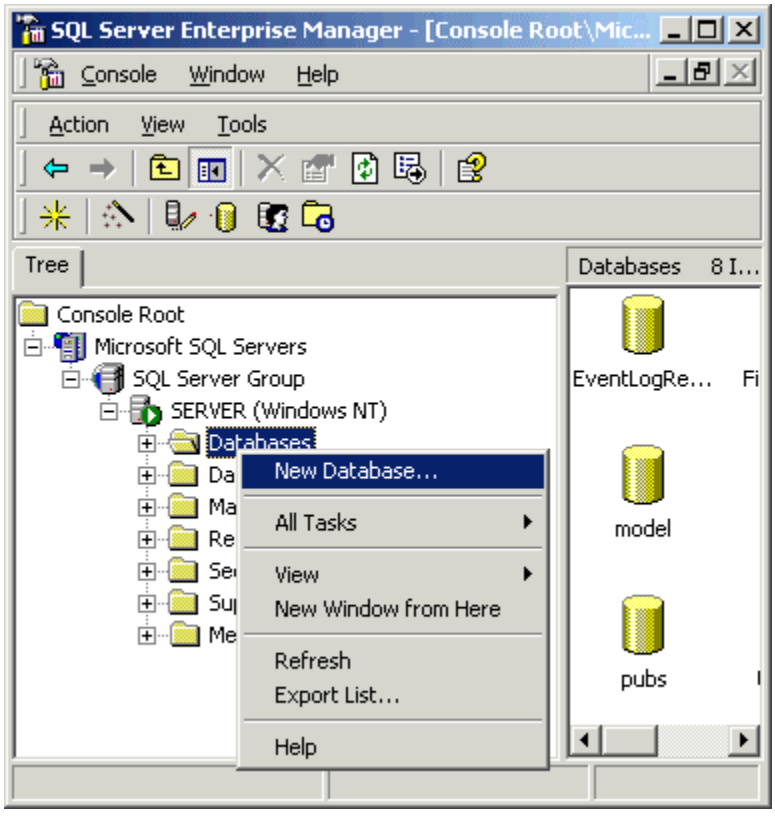
Configuring Logging in Internet Security and Acceleration Server to a SQL Database

This article describes how to configure logging for Internet Security and Acceleration (ISA) Server to an SQL database. ISA Server provides an extensible, multiple-layer enterprise firewall and a scalable, high-performance Web cache server. You can store Microsoft Internet Security and Acceleration (ISA) Server logs to an ODBC database. In this article we will store the web proxy logs to an SQL server database named **ISA_Logs** under the **WebProxyLog** table.

Please follow these steps to accomplish this task.

Creating Database named ISA_Log

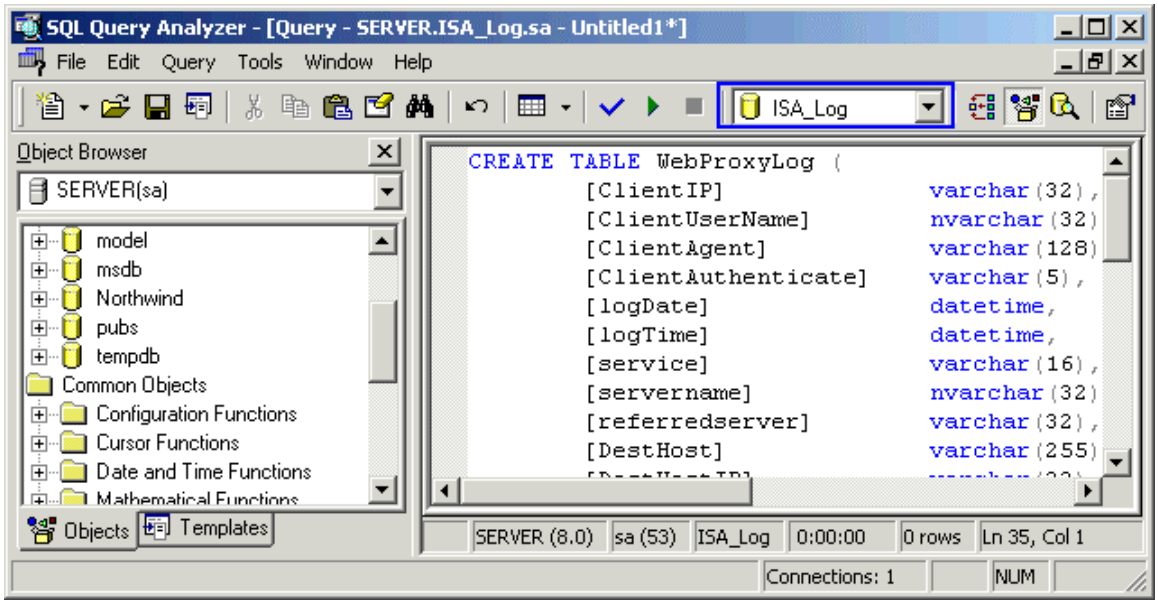
1. Start SQL Server **Enterprise Manager** from Start➔Programs➔SQL Server➔Enterprise Manager.
2. Create a database named **ISA_Log** from the following node.



Creating Table named WebProxyLog

3. Launch SQL Server **Query Analyser** from Start➔Programs➔Microsoft SQL Server➔ Query Analyser.

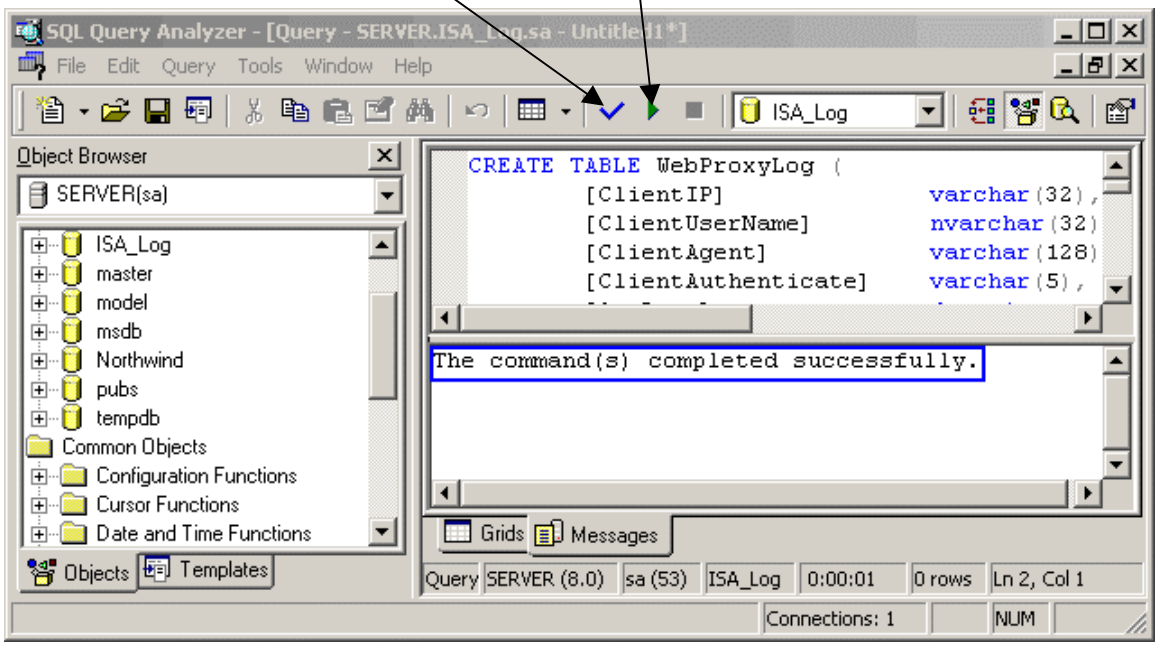
4. Select the **ISA_Log** database from the following location and paste the following code in the code window as shown below.




```
CREATE TABLE WebProxyLog (
        [ClientIP]              varchar(32),
        [ClientUserName]        nvarchar(32),
        [ClientAgent]           varchar(128),
        [ClientAuthenticate]    varchar(5),
        [logDate]               datetime,
        [logTime]               datetime,
        [service]               varchar(16),
        [servername]            nvarchar(32),
        [referredserver]        varchar(32),
        [DestHost]              varchar(255),
        [DestHostIP]            varchar(32),
        [DestHostPort]          int,
        [processingtime]        int,
        [bytesrecvd]            int,
        [bytessent]             int,
        [protocol]              varchar(12),
        [transport]             varchar(8),
        [operation]             varchar(8),
        [uri]                   varchar(255),
        [mimetype]              varchar(32),
        [objectsource]          varchar(12),
        [resultcode]            int,
        [CacheInfo]             int,
        [rule#1]                nvarchar(128),
        [rule#2]                nvarchar(128)
)
```

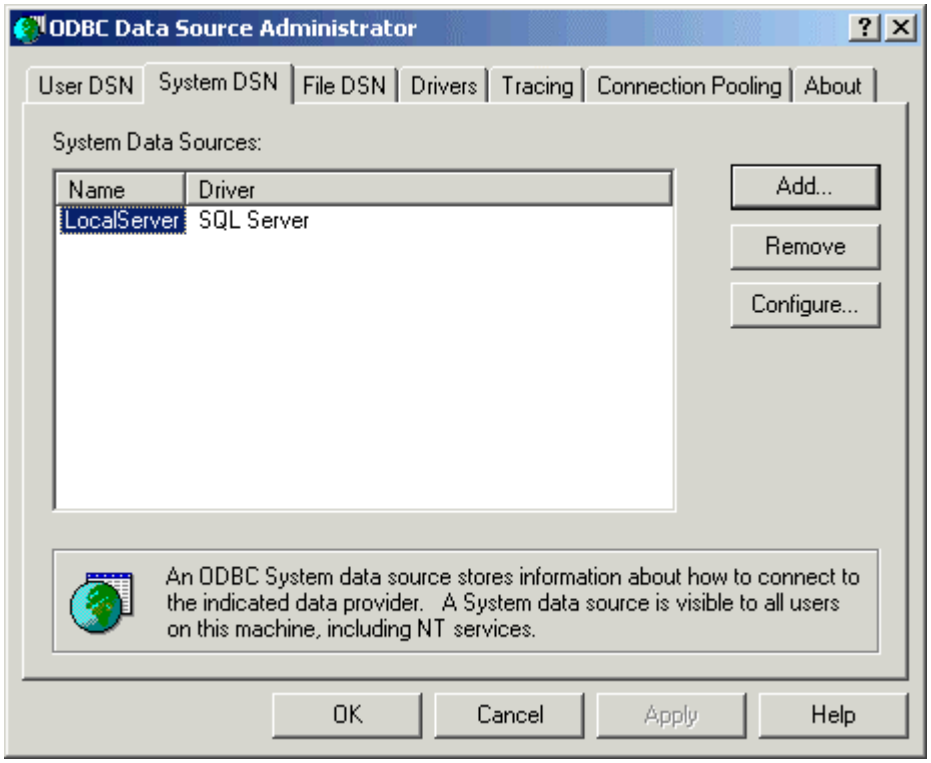
```
CREATE  INDEX [IX_WebProxyLog_Date] ON [WebProxyLog]([logDate]) ON
[PRIMARY]
GO

 CREATE  INDEX [IX_WebProxyLog_DateTime] ON [WebProxyLog]([logDate],
[logTime]) ON [PRIMARY]
GO
```

5. Click the **Parse** button (Blue colored good sign) or press CTRL+F5 to check the syntax of this query and then click **Execute** button (green colored play sign) or press F5 to execute this query.
6. You will get the following message after running this query successfully.

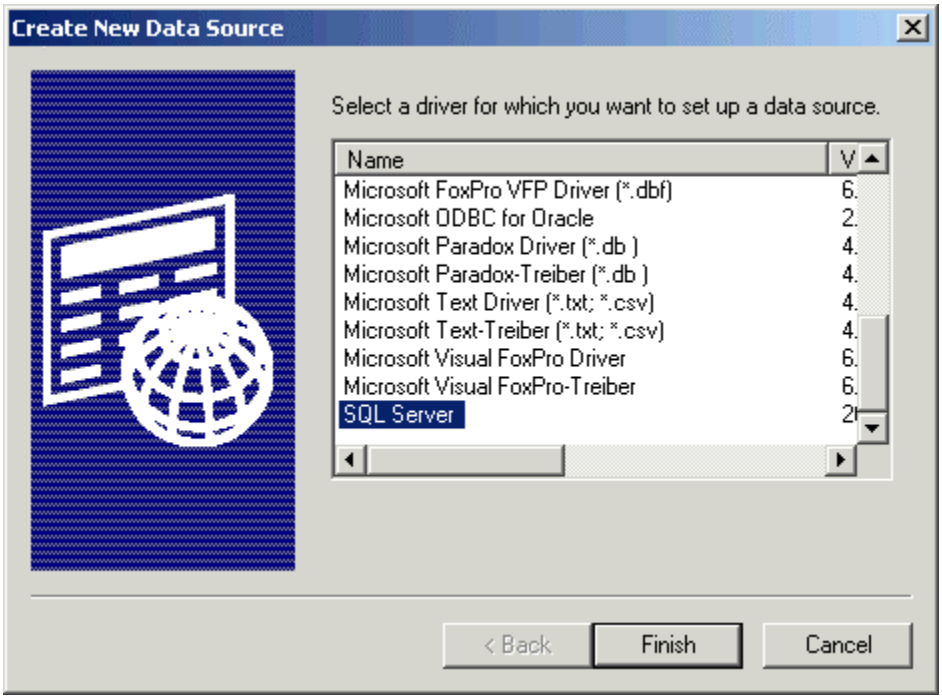


Creating ODBC for ISA server

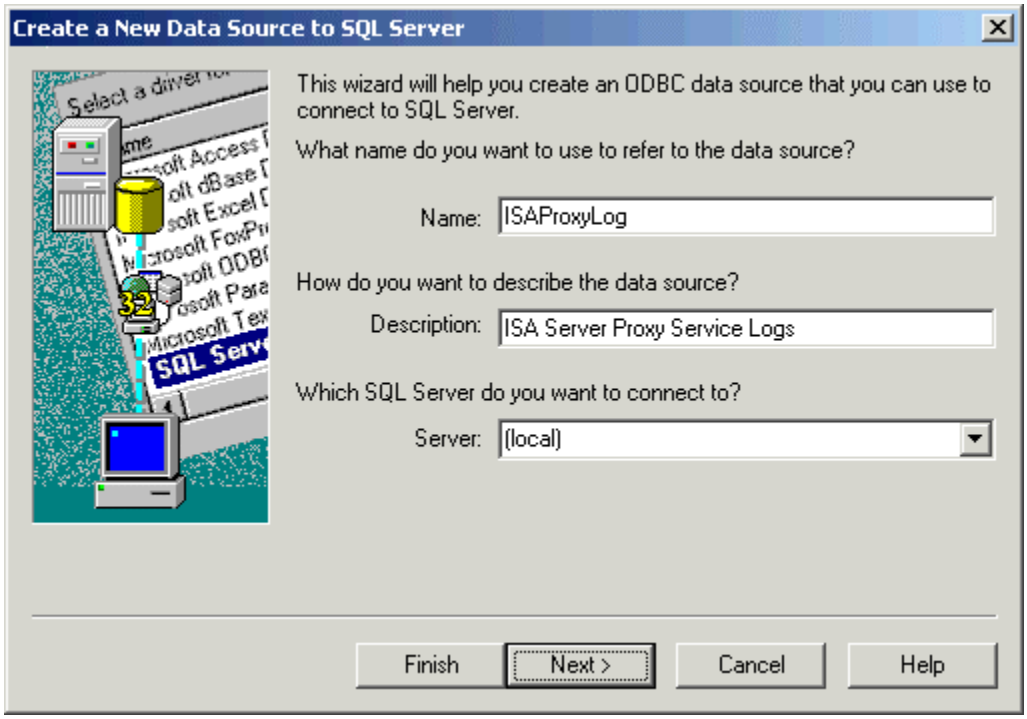
7. Click **Start➔ Programs➔Administrative Tools➔ Data Sources (ODBC)**.
8. On the **System DSN** tab, click **Add**.



9. In the **Create New Data Source**, select the **SQL Server** driver for the database.

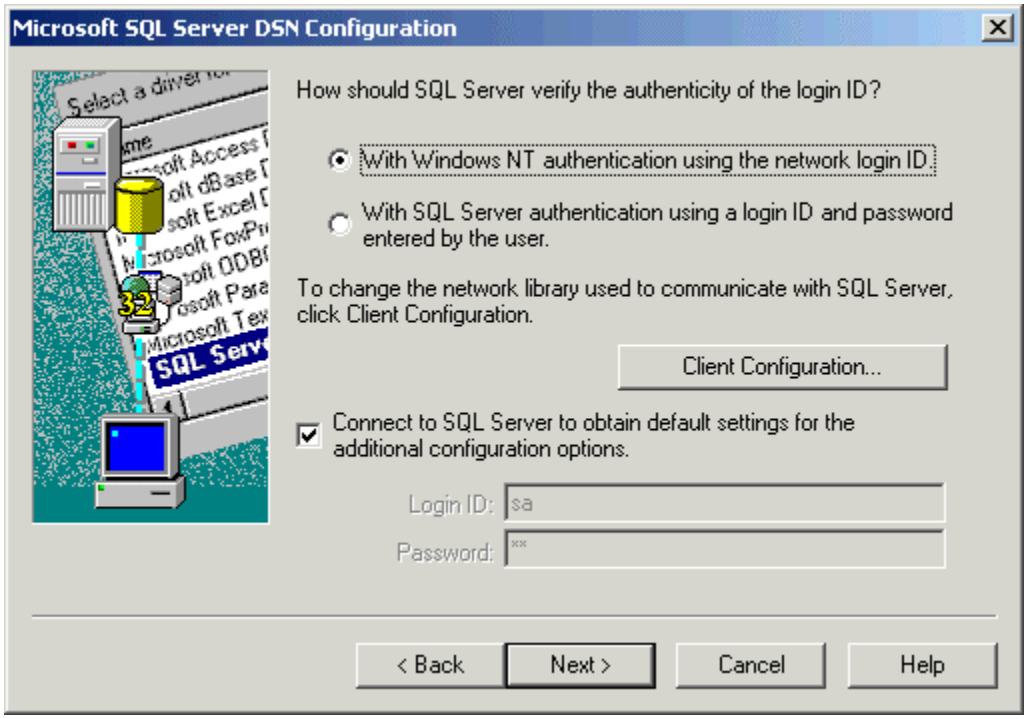


10. Create the data source with the following information.

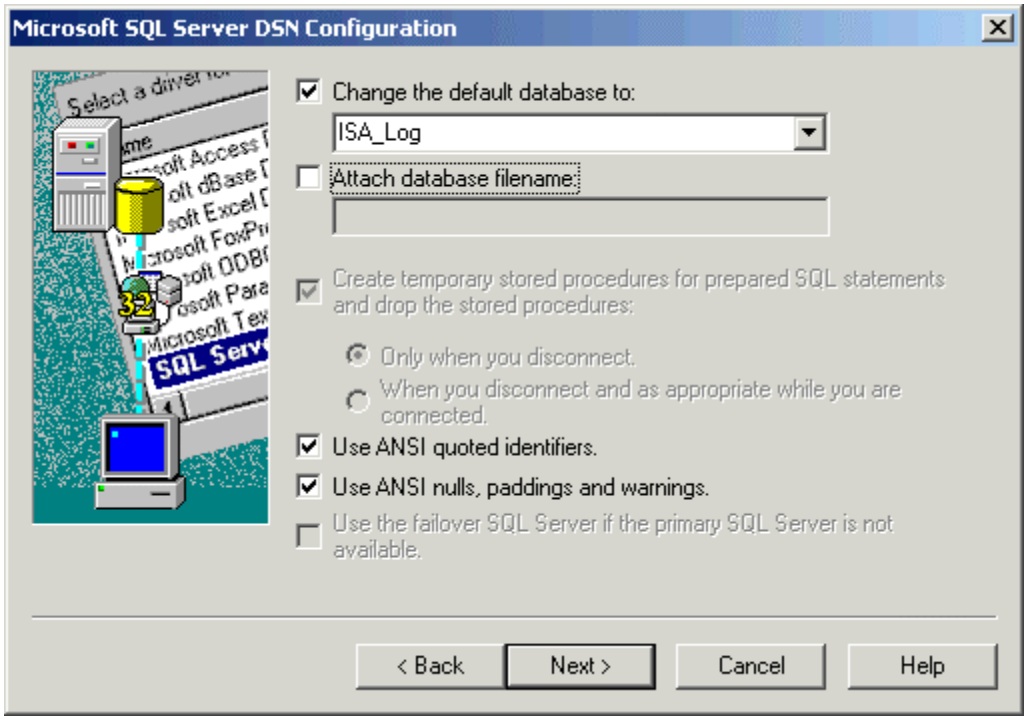


Note: This data source name will be used in ISA server for database connectivity.

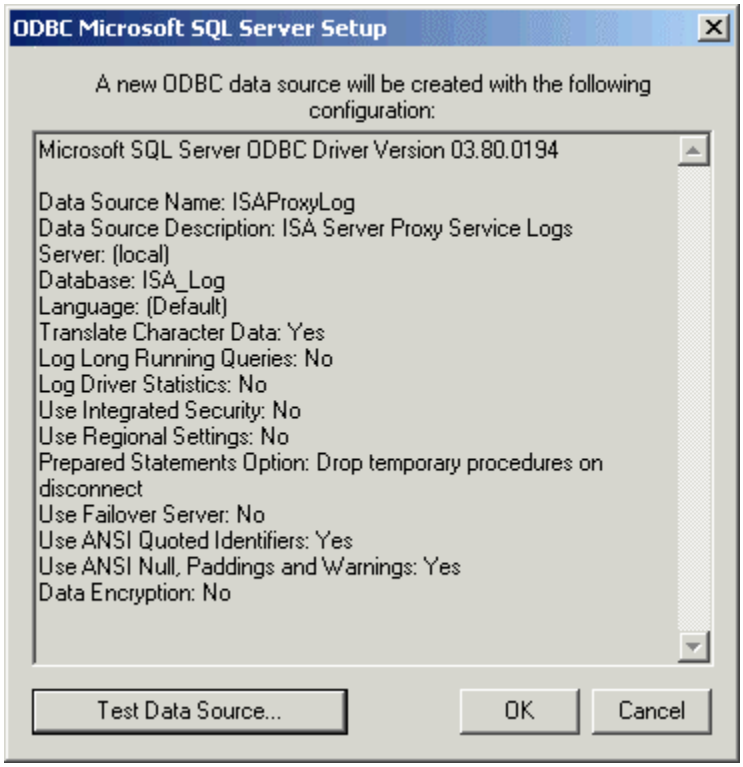
11. Click next to define your SQL server authentication.



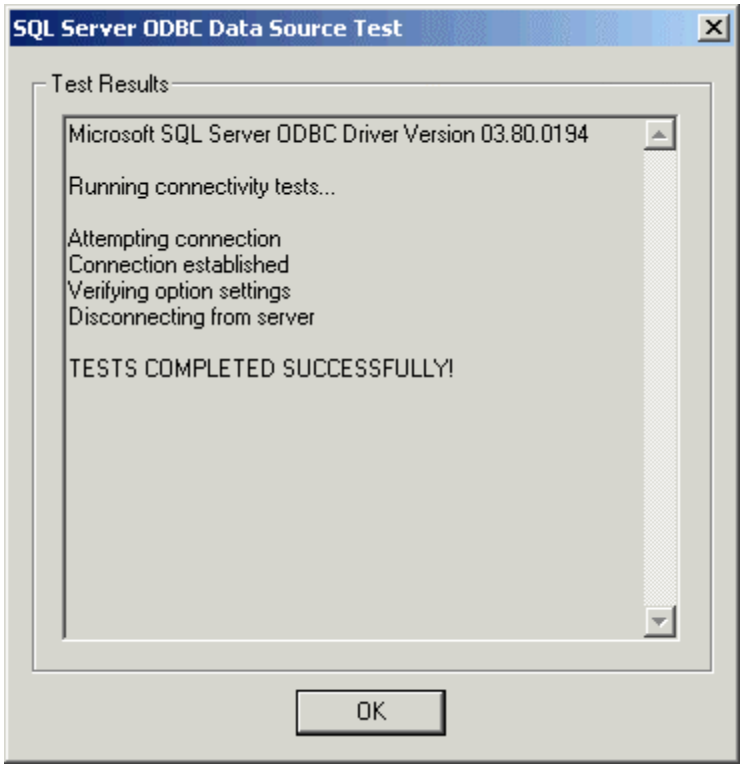
12. Click **Next** to select your desired Database (ISA_log).



13. Click **Next**, accept default settings and then click **Finish** button to confirm and test your Data source from the following window.

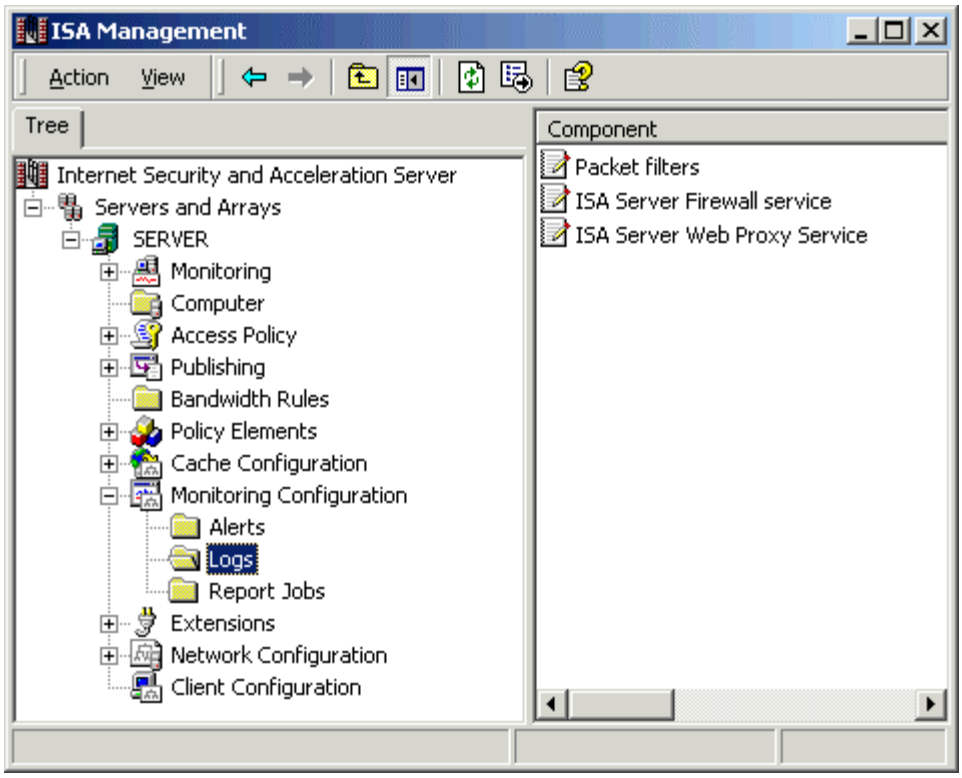


14. You will get the following successful test result.



Configuring Logging to Database

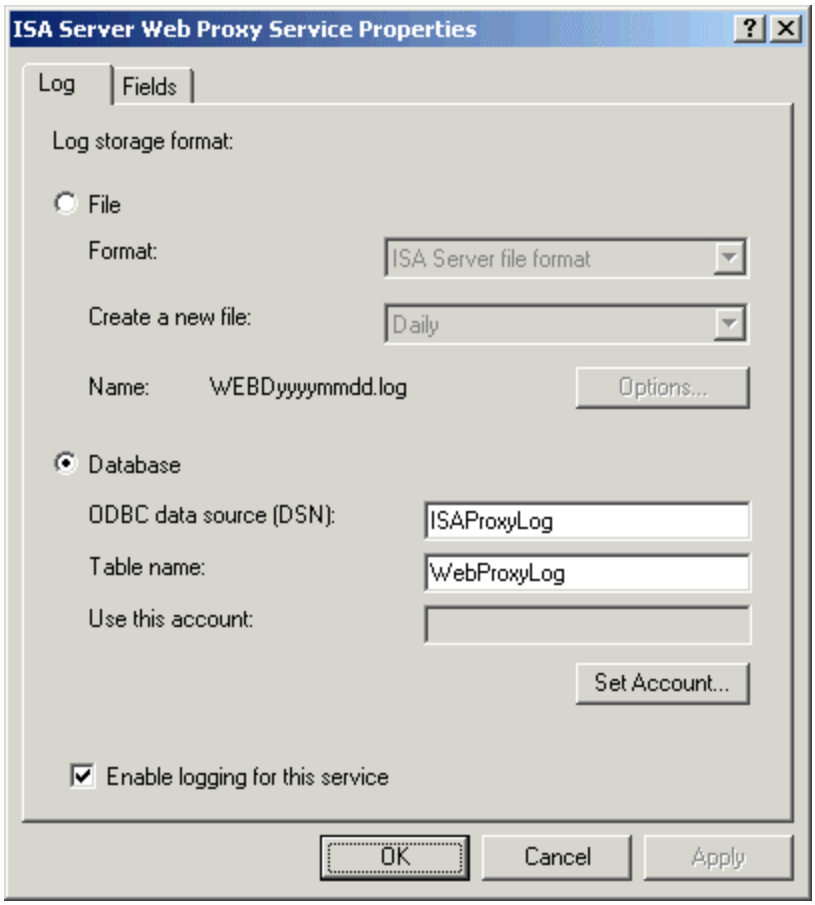
15. In the console tree of ISA Management, click **Internet Security and Acceleration Server**, click **Servers and Arrays**, click the name of the server or array, click **Monitoring Configuration**, and then click **Logs**.



16. In the details pane, right-click the **ISA Server Web Proxy Service**, and then click **Properties**.
17. On the **Log** tab, click **Database**.
18. Modify the following parameters

    - ODBC data source (DSN)
    - Table name
    - User account

Like below



19. Now open any site like www.microsoft.com and then check your database for proper logging as shown below.