StatServer Component

The RLE Stat Package consists of an IIS webapp that handles all connections from client servers and from users asking for RDP files.

It must be installed on a public-facing IIS server, or have a public reverse proxy to a backend IIS server.

I would recommend you install this on the RD gateway server, as it should already have IIS installed to host the RDWeb interface.

Configuration

Open the 'RLE Stat Package' folder and locate 'RLEStat'

Open the 'App_Data' folder and then 'servers.ini'

Enter your Remote Desktop HOST servers (not gateway or broker servers) in the following format, one server per line:

Computername:friendlyname:usercapacity

For example, a machine called 'RLE1' with a capacity of 30 users might look as follows:

RLE1:Server 1:30

Here's our infrastructure:

```
RLEGATEWAY:Default Server:30
RLE1:Server 1:30
RLE2:Server 2:30
RLE3:Server 3:30
RLE4:Server 4:30
RLE5:Server 5:30
```

Go back up a level and open 'web.config' in notepad.

This file has several settings:-

Setting Name	Default Value	Description
groupby	5	Sets the time period in minutes that stats should be grouped into. Once set, do not change without clearing the database.
aeskey	supersecretkey	The encryption key used to decrypt data from clients. Must match config on clients.
aesvector	OW2ACVF129RB27XX	The aes vector key - MUST be 16 characters long. Must match config on clients
tidyafter	365	Delete data older than this many days ago

Data that comes from clients is encrypted using the AESKEY value, salted and projected using the AESVECTOR value. It is recommended you change these to your own values, especially if you do not have SSL enabled on your IIS server.

This file also contains how the webapp generates Remote Desktop Protocol (RDP files):

Setting Name	Default Value	Description

redirectionmode	balance	Which redirection mode to use for a server farm:
		  direct - no load balancer in use
		  gateway - use gateway to connect to
		  farm - server 2008 load balancing mode
		  balance - server 2012 load balancing mode

allowskiploadbalance	default	Enables option to skip load balancing, set to false if using direct or gateway options above or to force load balancing ON. If your public facing server does NOT have RD host services installed, set to false.
full address	*none*	External name/address of your RDP server (when in direct mode), or the external name of your gateway server (any other mode).
internal address	*none*	Internal name/address of RDP farm (when in farm mode, blank otherwise).
broker	*none*	Internal name/address of RDP broker (when in balance mode, blank otherwise).
collection	*none*	Name of RDP broker collection – replace spaces with underscores _ (when in balance mode, blank otherwise).
domain	*none*	Your Internal Active Directory domain name
allowusername	true	Enables option to type username in
allowimmersiveselection	true	Enables option to choose full screen, windowed mode etc
allowperformanceselection	true	Enables option to choose performance mode (bandwidth)
allowdriveredirection	true	Enables option to select if drives are redirected
allowcopypaste	default	Enables option to select if copy paste between computers works
allowconnectprinters	true	Enables option to print to home printer

If you have a public SSL certificate that matches the name of your Remote Desktop Gateway server, configure the following options:

| Setting Name	Default Value	Description
rdpsigning	false	Enables RDP file signing. Requires RDP Auto Sign to be installed.
rdpsigningdirectory	C:\inetpub\rdpautosignwatch	Location to put RDP files to be signed. Requires WRITE access by the app pool process (usually IIS_IUSRS)
rdpsigningdelay	3	Maximum amount of time in seconds to wait for the RDP file to be signed

If you wish to use automatic RDP signing, follow the instructions in Appendix A – RDP Auto Sign
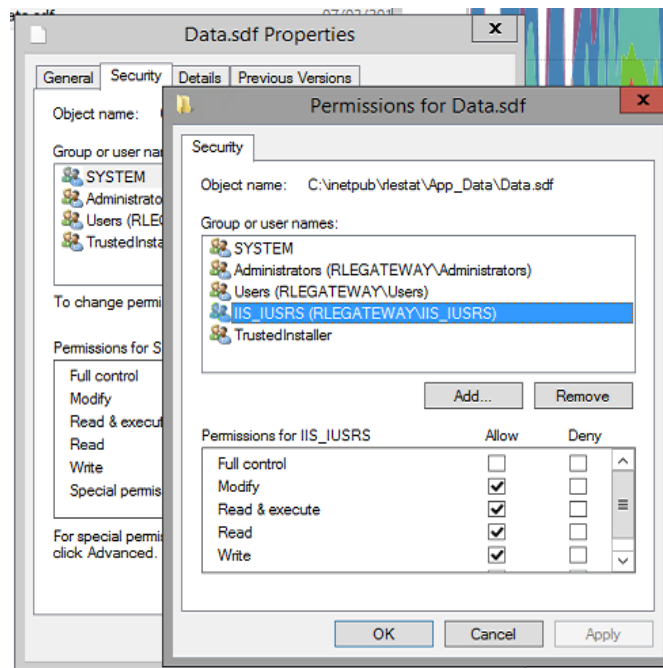
Installation

On the public facing gateway server, broker server or main host, follow these instructions:

Make sure .net Framework 4.5 is installed. Server 2008 users should install it from here: https://www.microsoft.com/en-gb/download/details.aspx?id=30653

Once installed, copy the RLEStat folder to 'c:\inetpub\rlestat':
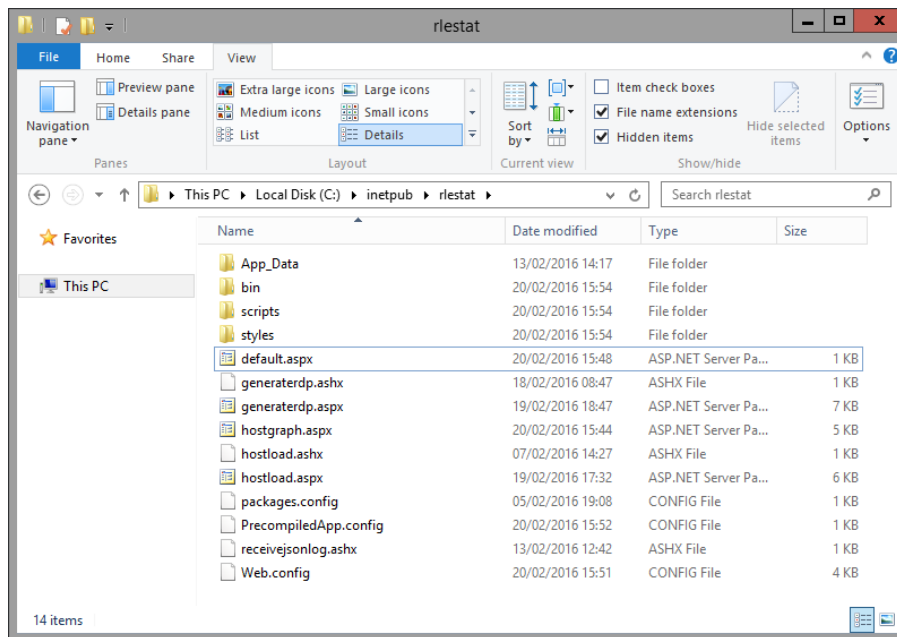
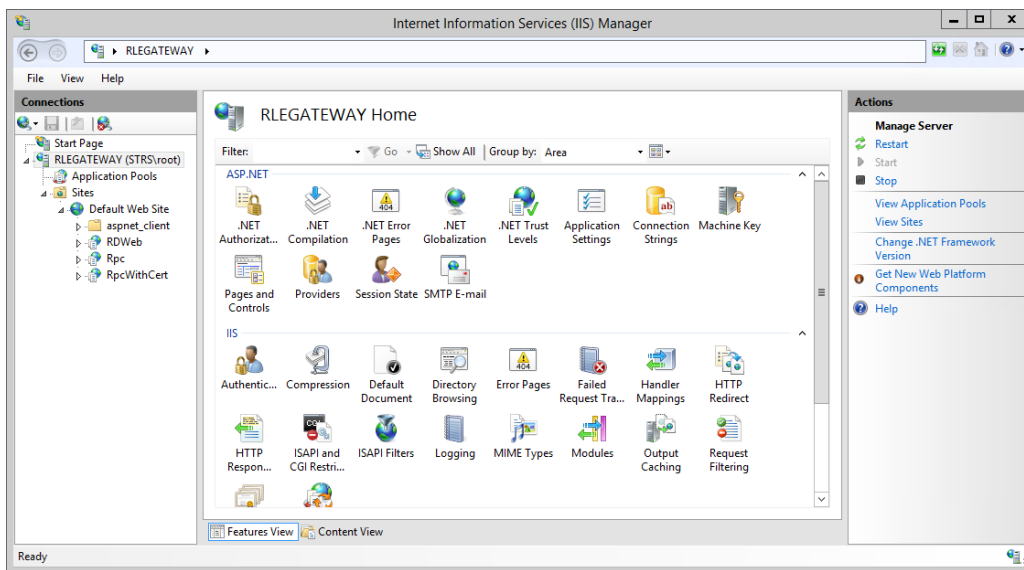Give machinename\iis_isurs MODIFY permission on 'App_Data\Data.sdf':

Make sure IIS has .net 4.5 application support installed. Installed options for IIS on Server 2012 should look like this:
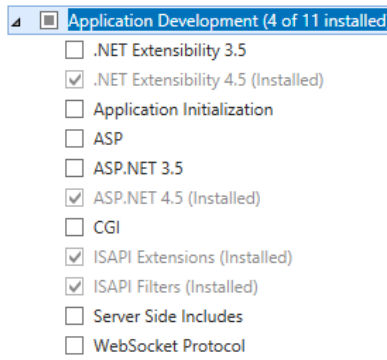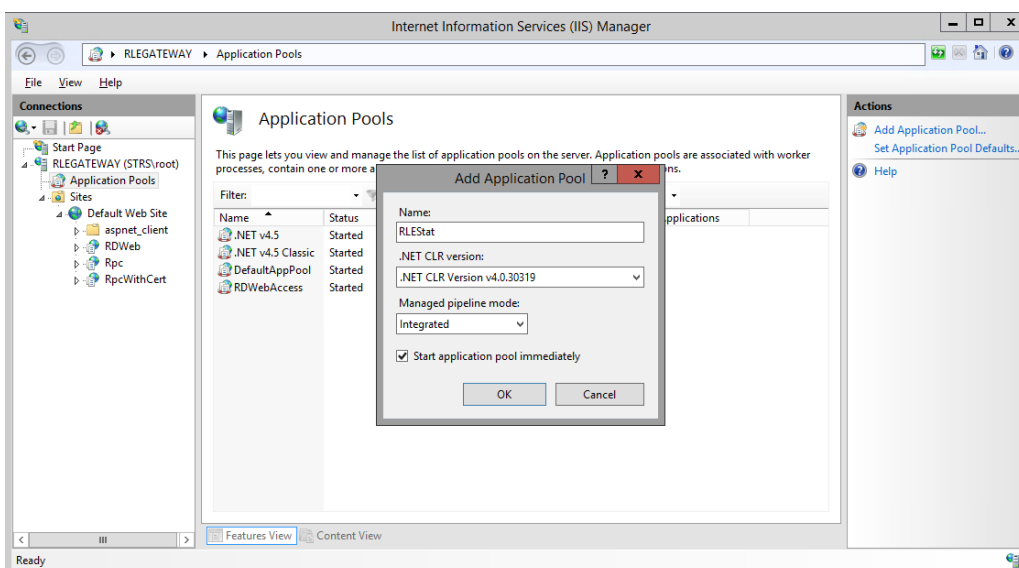
Start IIS Manager from the start menu -> Administrative Tools -> Internet Information Services (IIS) Manager
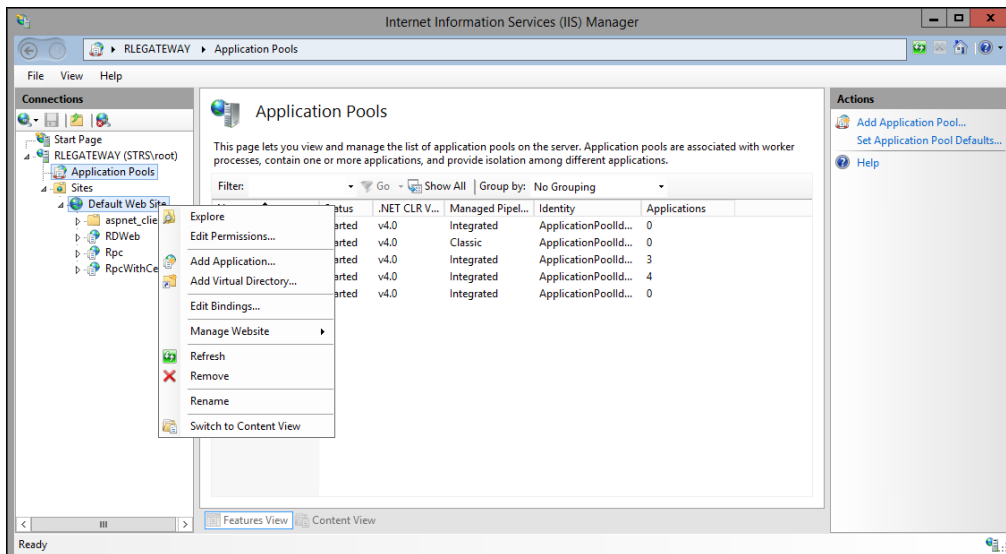

Navigate to Application Pools on the left hand menu

Add a new Application Pool called 'RLEStat'

Make sure .NET CLR is v4 and choose OK

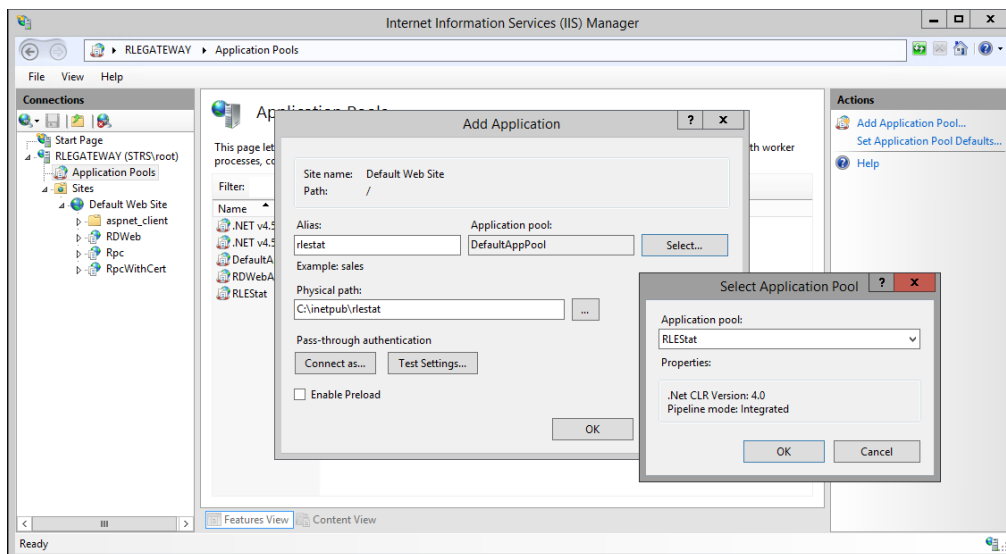Right click 'Default Web Site' from the left hand pane

Choose 'Add Application'

Enter the alias as 'rlestat'

Select 'Select' next to 'Application Pool' and choose 'RLEStat' from the dropdown menu.

Enter the physical path as 'c:\inetpub\rlestat'

Using a web browser on another machine, navigate to http://<machinename.fqdn>/rlestat. If done correctly, you should see the following success page:

The URL you just entered is known as the *masterserver* in documentation from now on.