

Server Administration

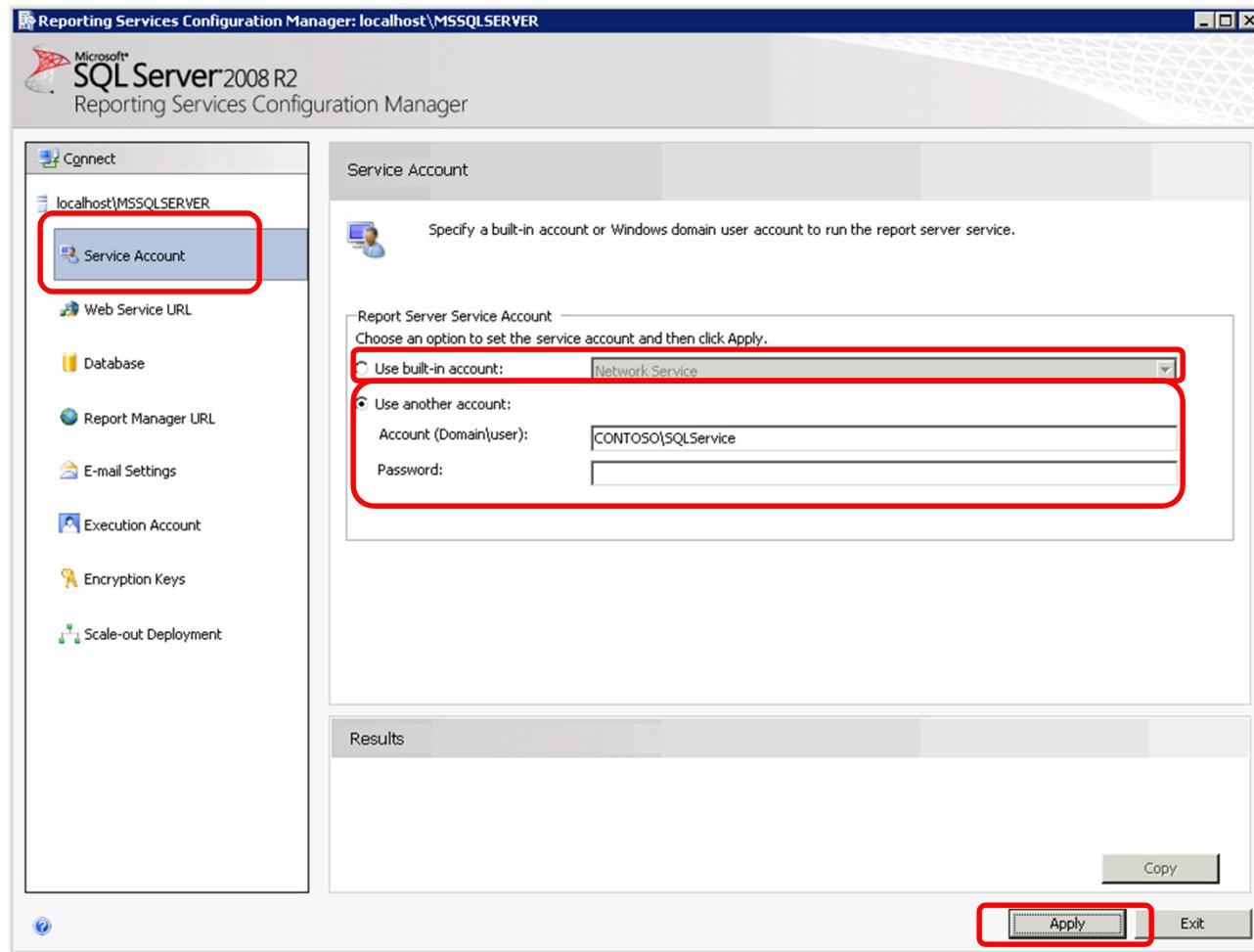
Managing the report server



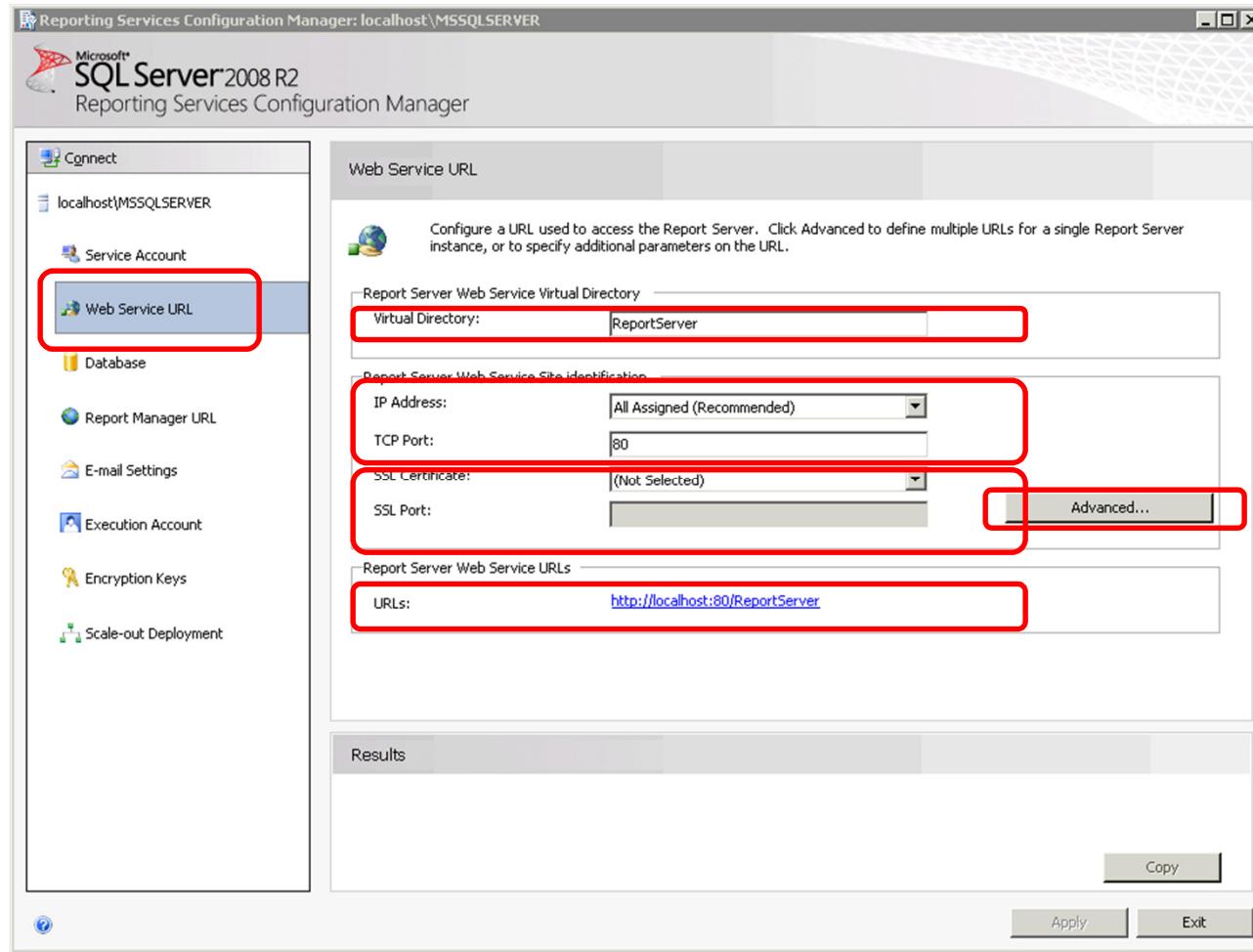
Overview

- Report Server Configuration
- RS Utility
- Managing Memory
- Surface Area Reduction
- Server Properties
- Logs
- Performance Counters

Report Server Configuration



Report Server Configuration



Report Server Configuration

Advanced Multiple Web Site Configuration

Configure various identities for the Report Server Web service.

Multiple HTTP Identities for the Report Server Web Service

IP Address	TCP Port	Host Header
All Assigned	80	

Add Remove Edit

Multiple SSL Identities for the Report Server Web Service

IP Address	SSL Port	SSL Certificate	Issued To

Add Remove Edit

-All Assigned
-Specific
-All Unassigned

Add a Report Server HTTP URL

Identification

IP Address All Assigned

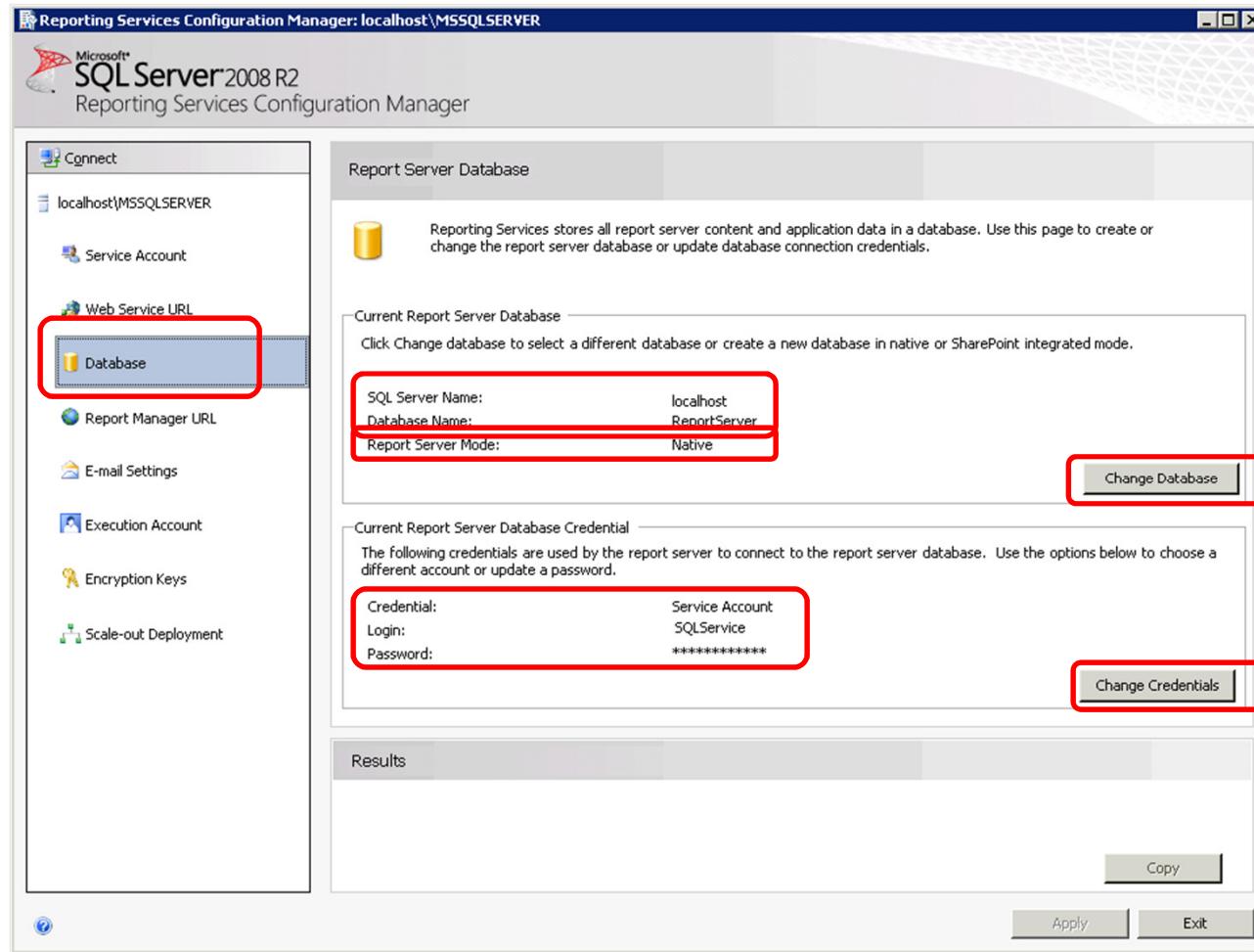
Host Header Name

TCP Port 80

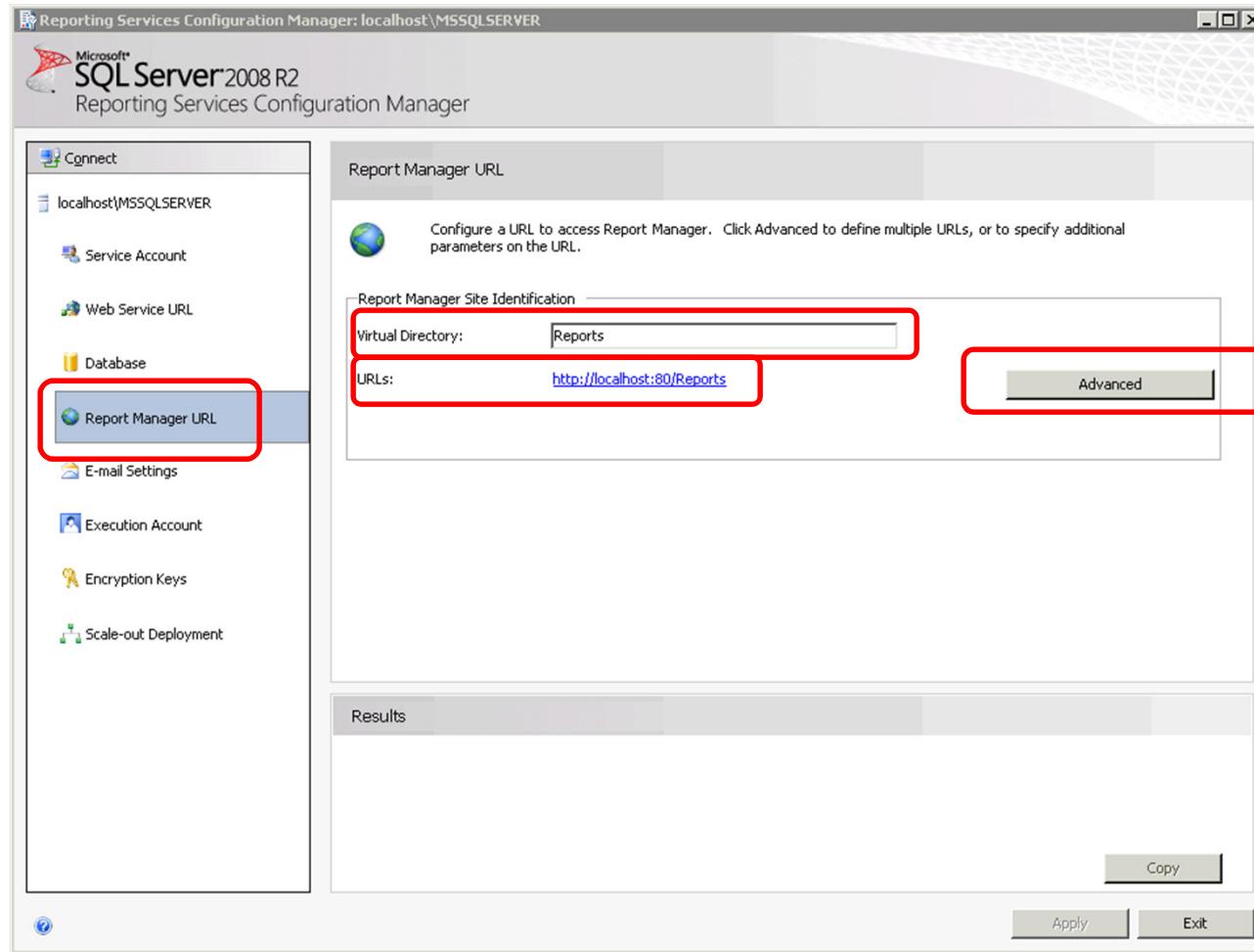
URL http://localhost:80/ReportServer

OK Cancel

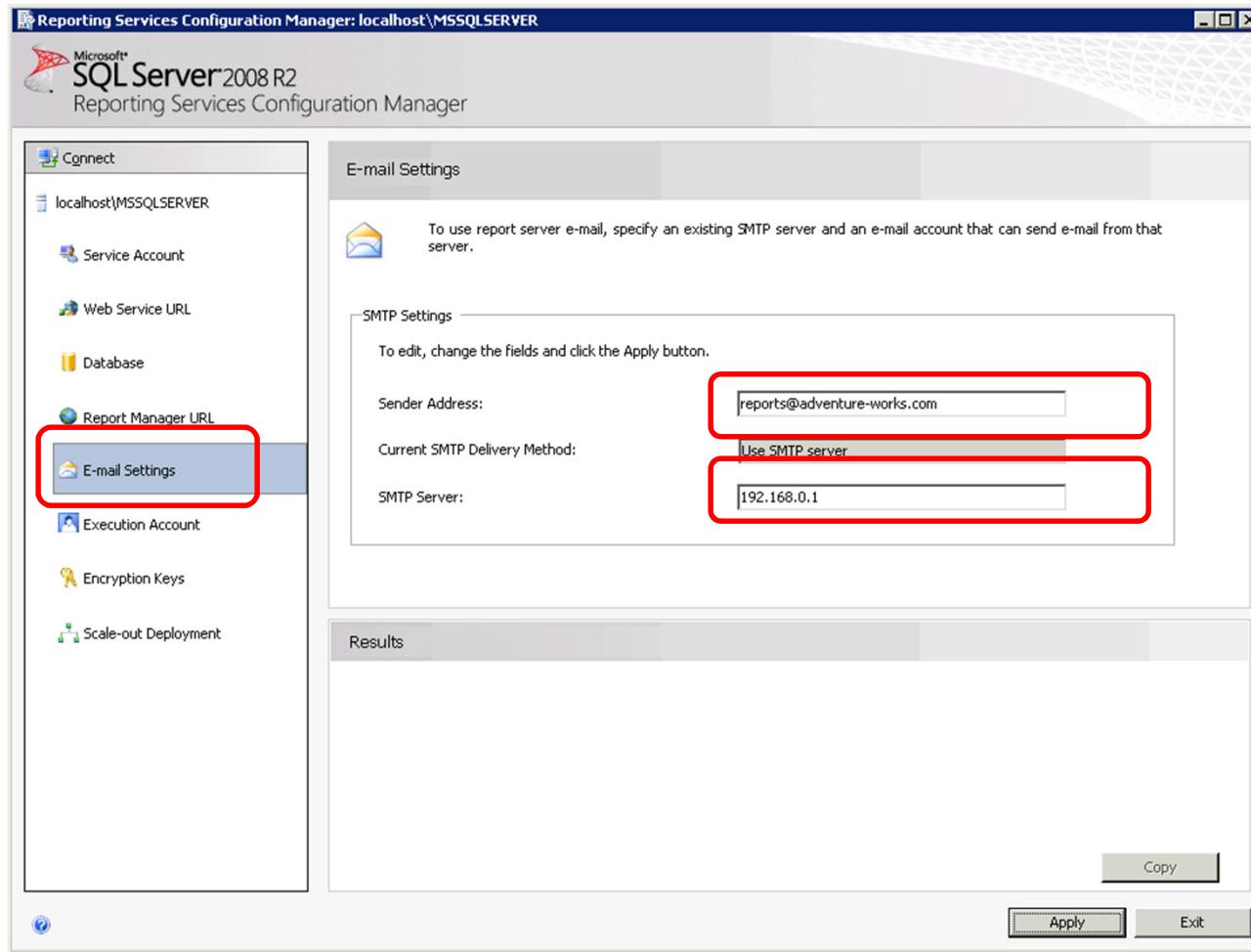
Report Server Configuration



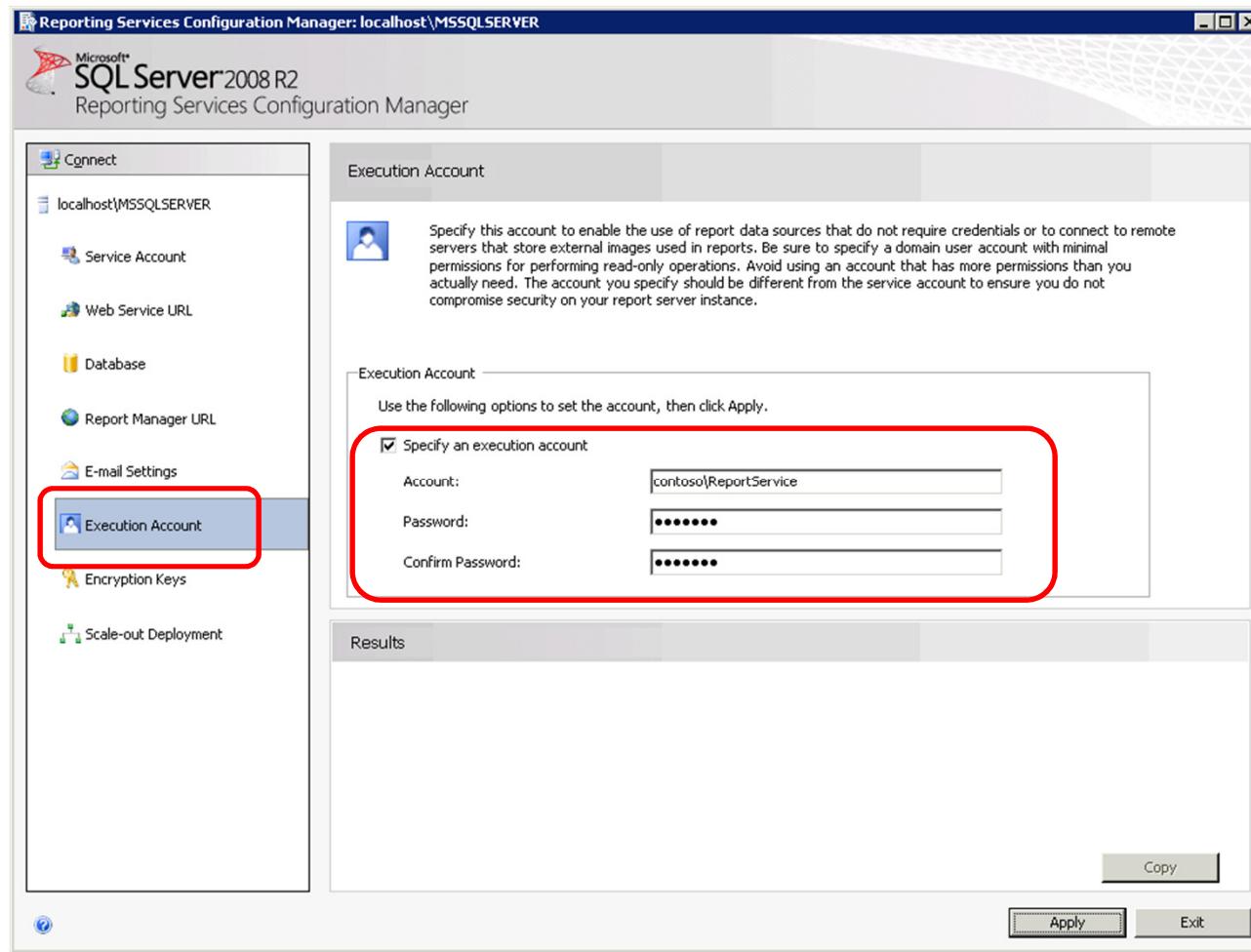
Report Server Configuration



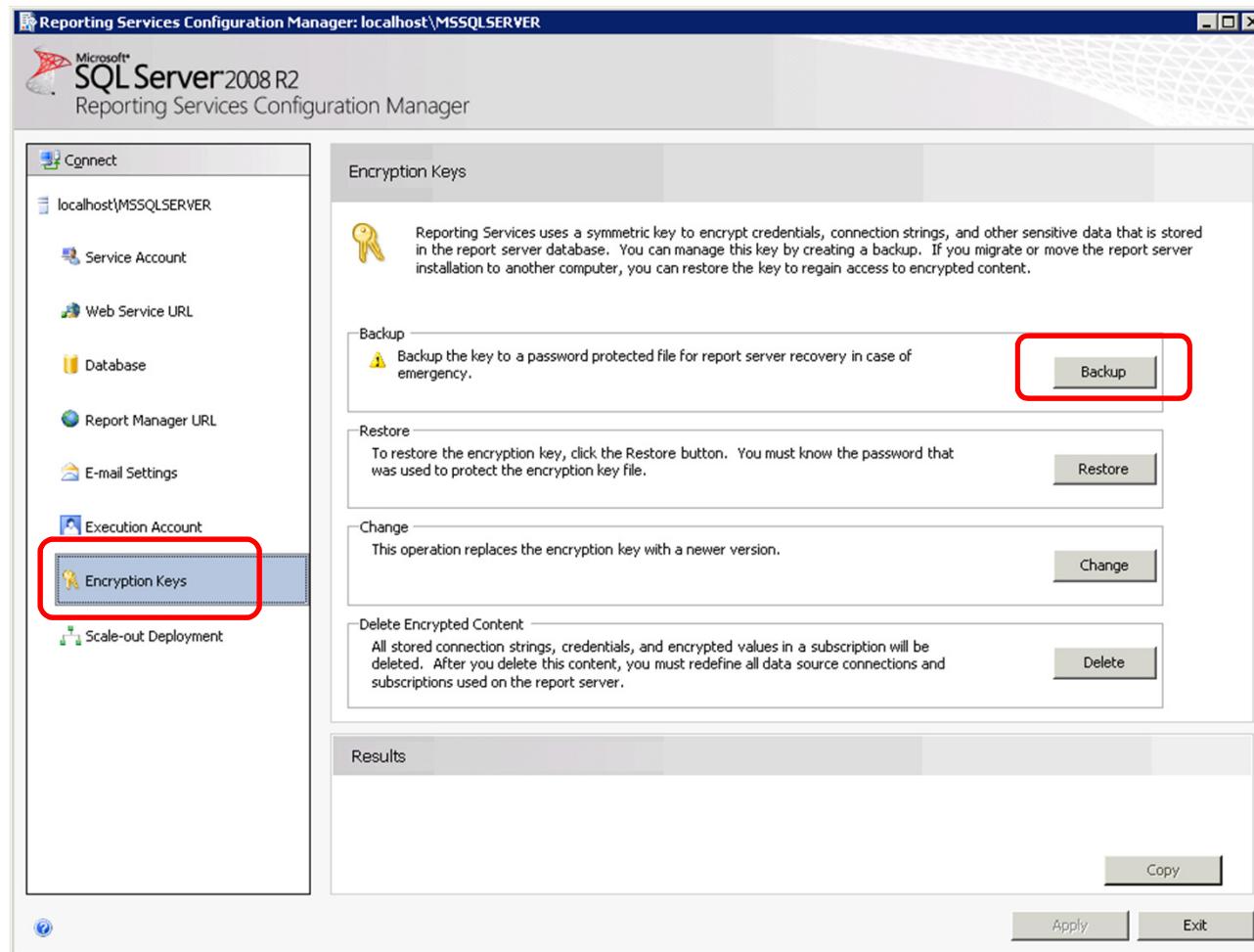
Report Server Configuration



Report Server Configuration



Report Server Configuration



RSKeyMgmt

- **Backup the encryption key**

```
rskeymgmt -e -f [drive:][folder\]filename -p password
```

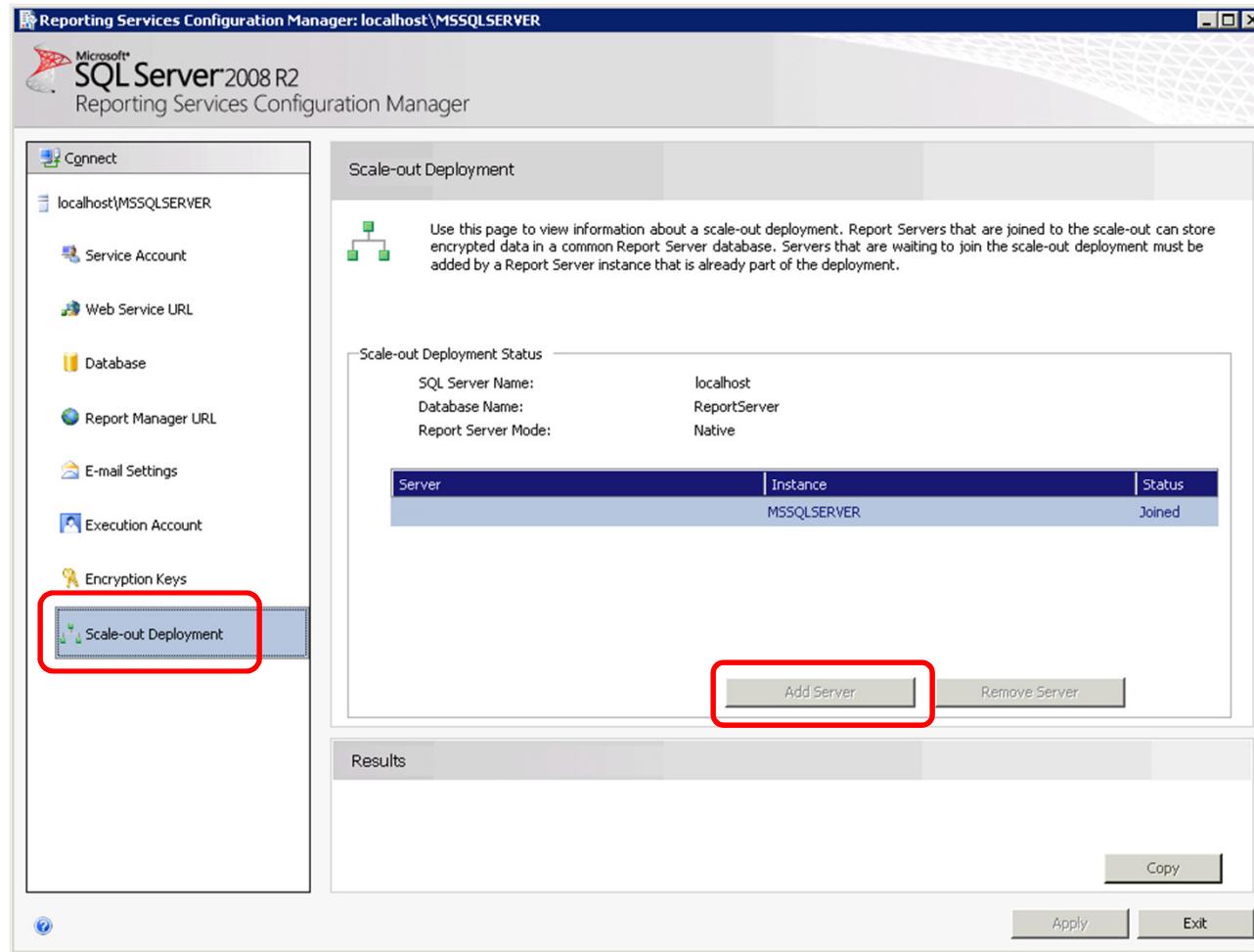
- **Restore the encryption key**

```
rskeymgmt -a -f [drive:][folder\]filename -p password
```

- **Delete encrypted content**

```
rskeymgmt -d
```

Report Server Configuration



RS Utility

```
rs -i input_file -s ReportServerURL -u username -p password  
-l timeout -b -v variable_key=variable_value -t
```

Argument	Description
-u username –p password	Alternate credentials to use when executing the script
-l timeout	Override default time-out of 8 seconds (use 0 to prevent time-out)
-b	Roll back transaction if unhandled exception occurs during execution
-v variable_key=variable_value	Pass a variable and value to script as argument (repeat argument if multiple variables exist)
-t	Record script output in trace log

Managing Memory

- Current requests continue
- New requests might be accepted
- Memory allocation reduced for all apps
- Background largest reduction

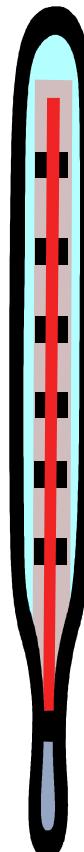
Medium Memory Pressure

Low Memory Pressure

- Current requests continue
- New requests accepted
- Background low priority

High Memory Pressure

- Current requests slow
- New requests denied
- Memory allocation reduced more
- Memory swaps to disk



RSReportServer.Config

```
<Service>
  <IsSchedulingService>True</IsSchedulingService>
  <IsNotificationService>True</IsNotificationService>
  <IsEventService>True</IsEventService>
  <PollingInterval>10</PollingInterval>
  <WindowsServiceUseFileShareStorage>False</WindowsServiceUseFileShareStorage>
  <MemorySafetyMargin>80</MemorySafetyMargin>
  <MemoryThreshold>90</MemoryThreshold>
  <WorkingSetMaximum>4000000</WorkingSetMaximum>
  <WorkingSetMinimum>2400000</WorkingSetMinimum>
```

Boundaries of medium pressure %

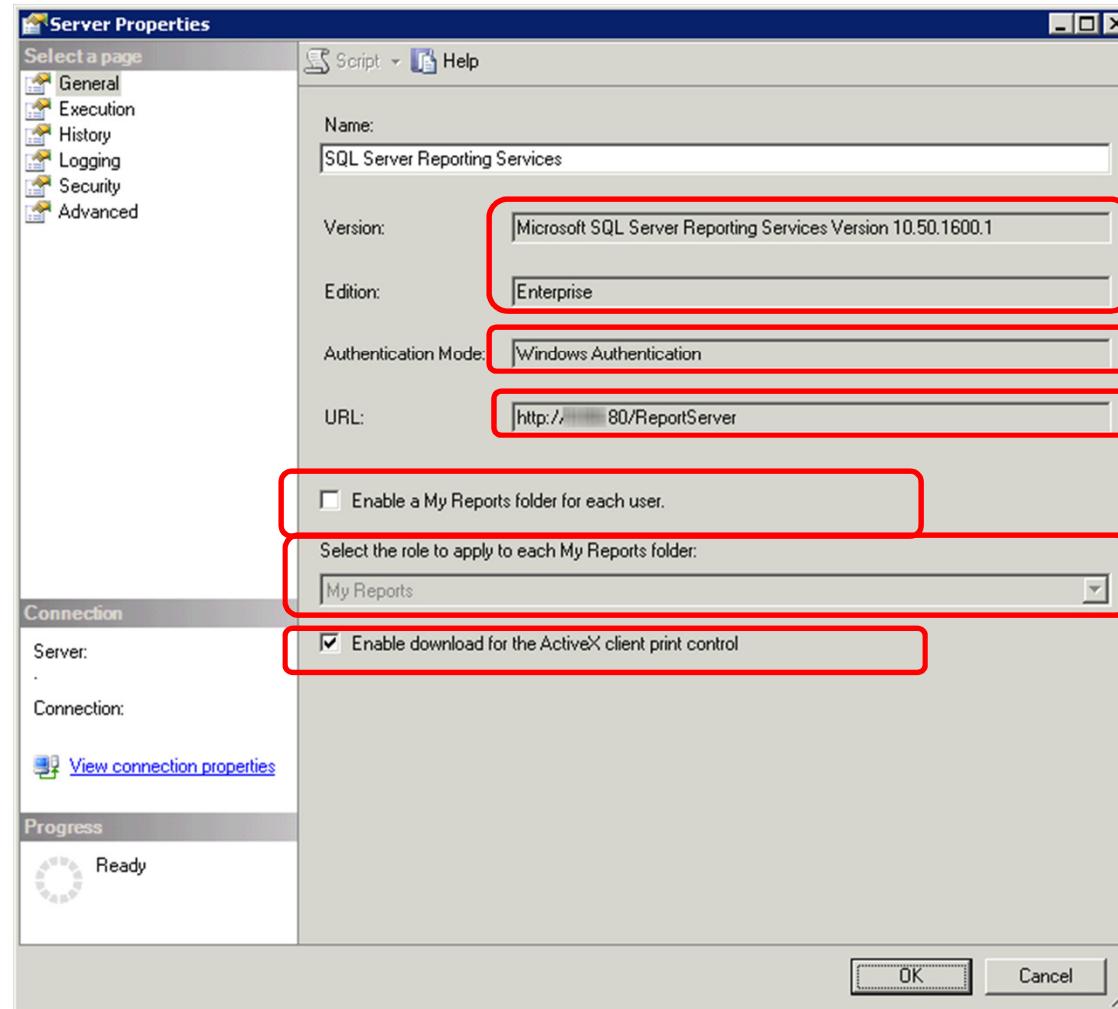
Full Memory Range KB



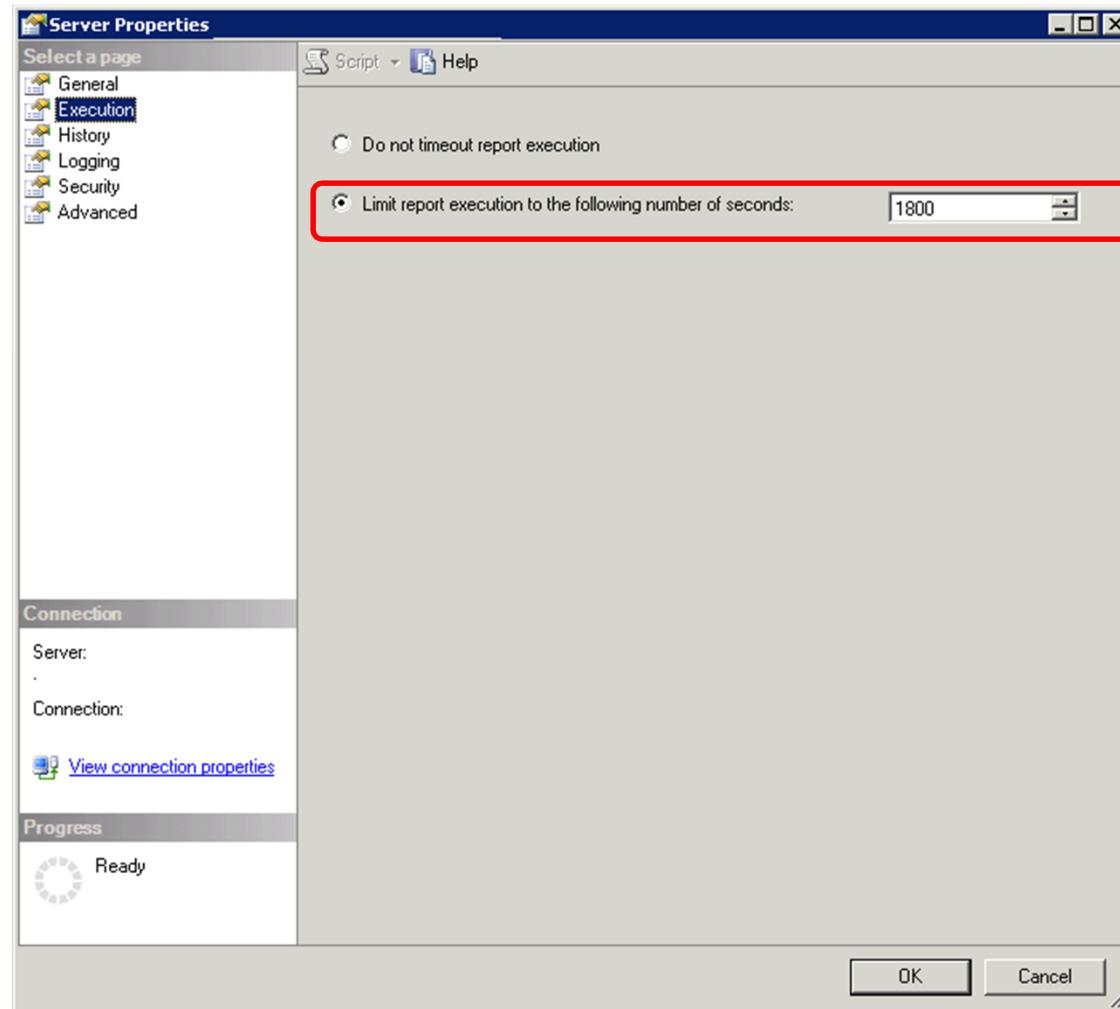
Surface Area Reduction

Usage	Configuration
All reports run on demand	Change settings to false: <ul style="list-style-type: none">• IsSchedulingService• IsNotificationService• IsEventService
All reports rendered on a schedule (snapshots and subscriptions)	Change settings to false: <ul style="list-style-type: none">• IsWebServiceEnabled
Custom application or SharePoint used as front-end for report server	Change settings to false: <ul style="list-style-type: none">• IsReportManagerEnabled

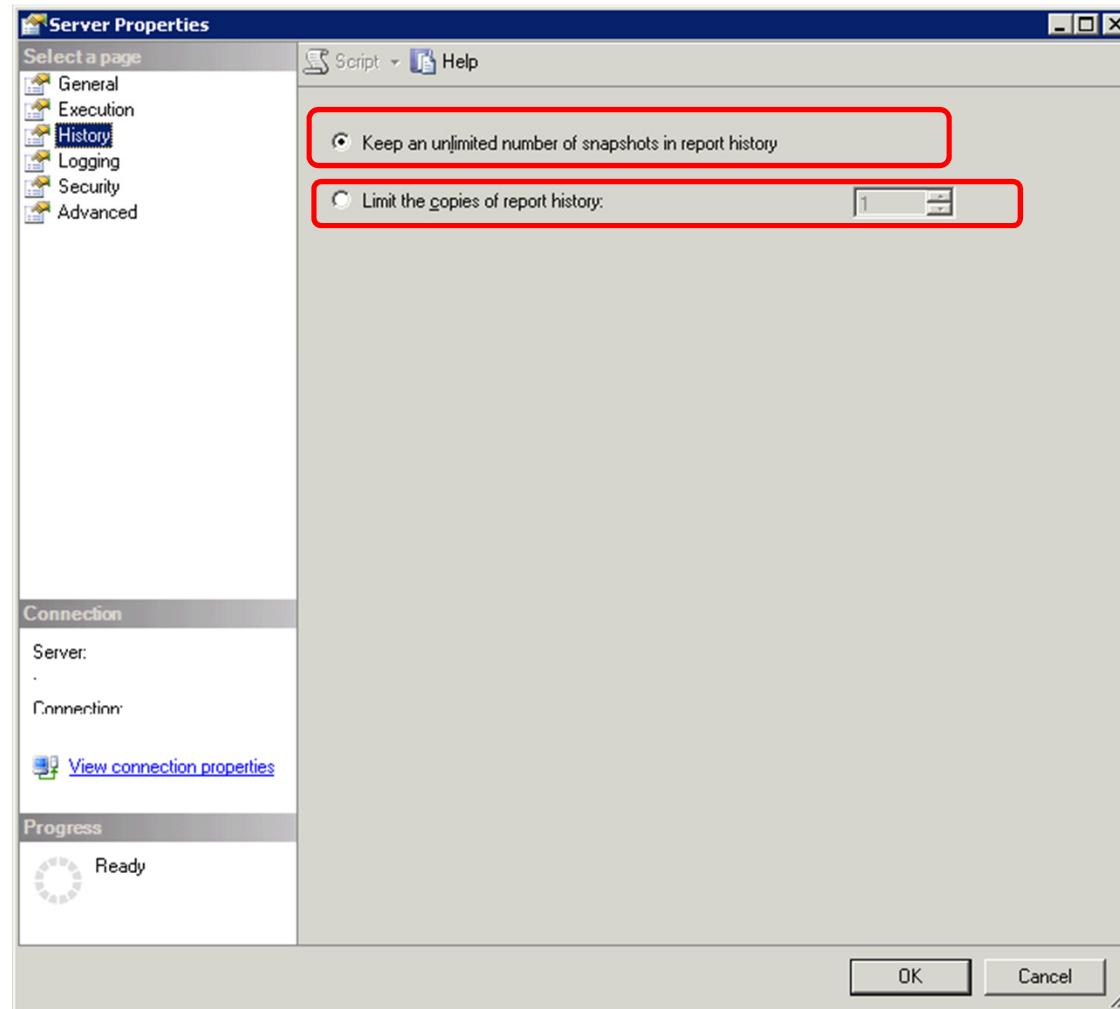
Server Properties



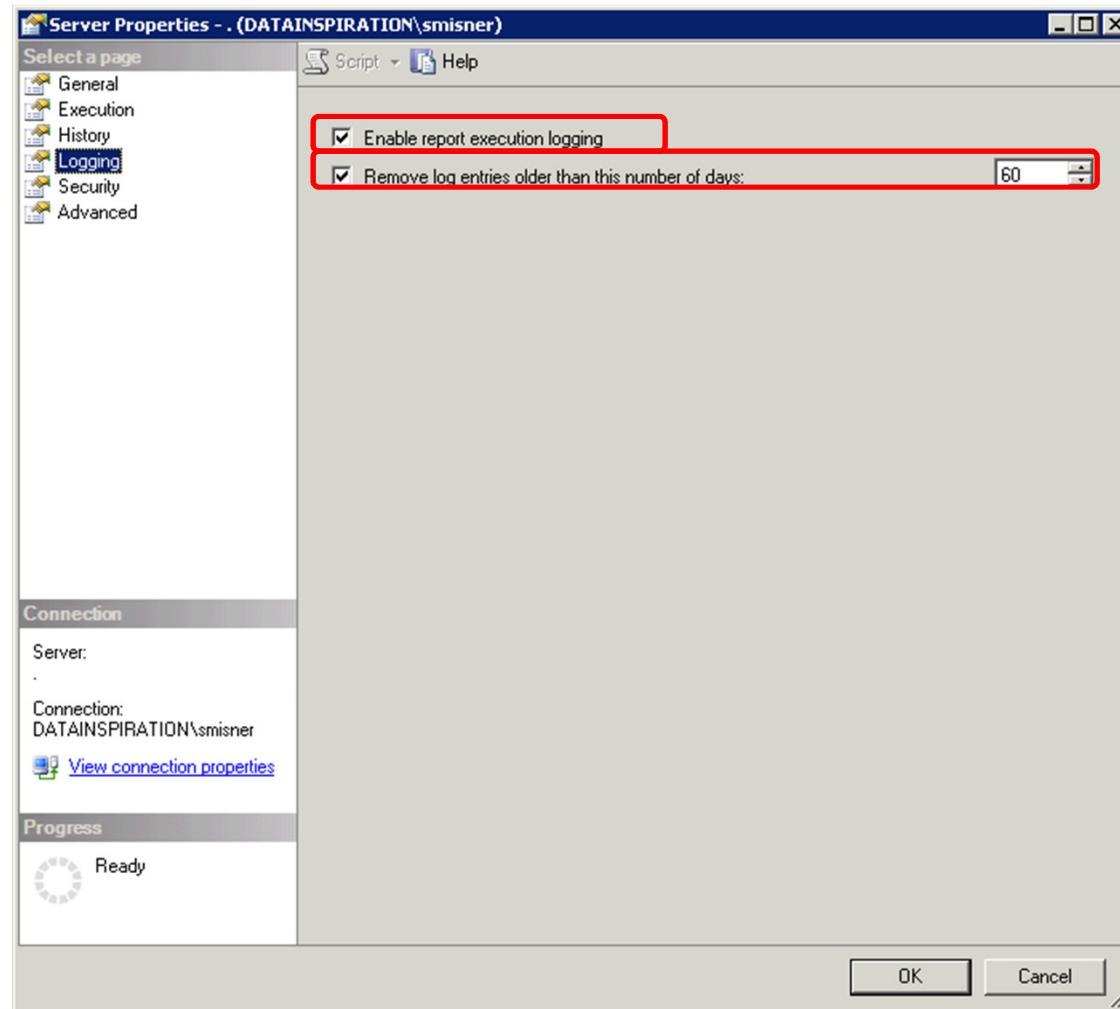
Server Properties



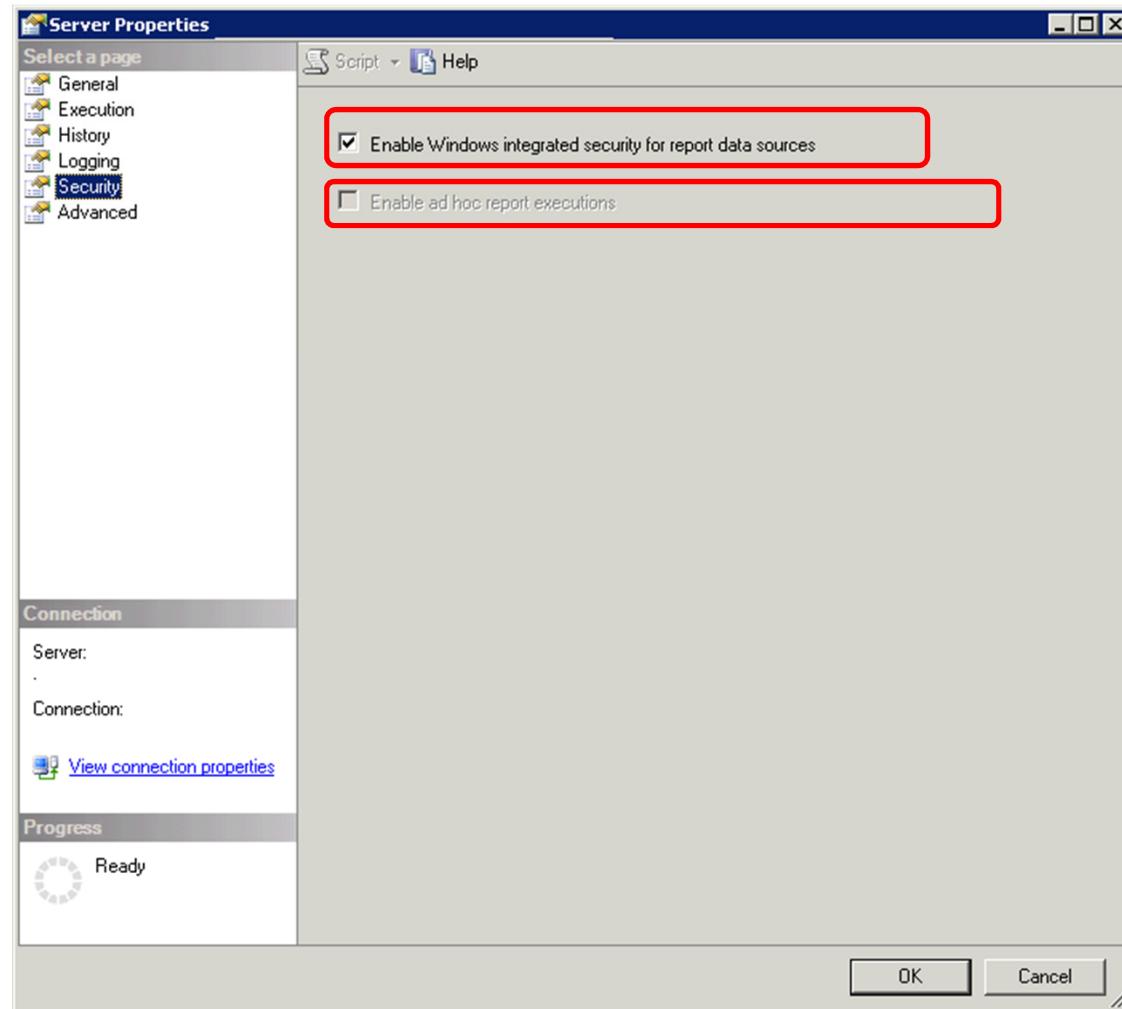
Server Properties



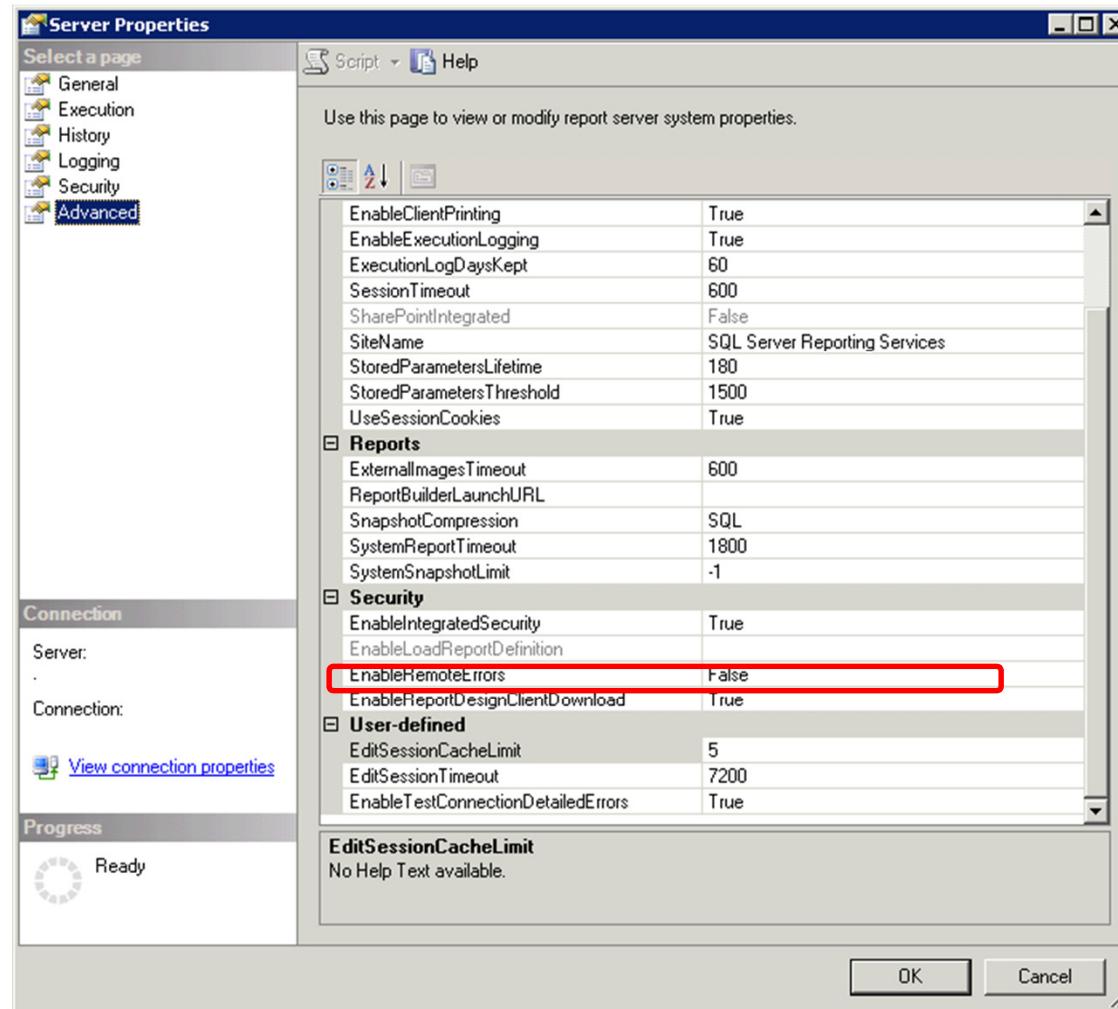
Server Properties



Server Properties



Server Properties



Logs

Program Files\Microsoft SQL Server\MSRS10_50.MSSQLSERVER\
Reporting Services\ReportServer

ReportServerService.exe.config

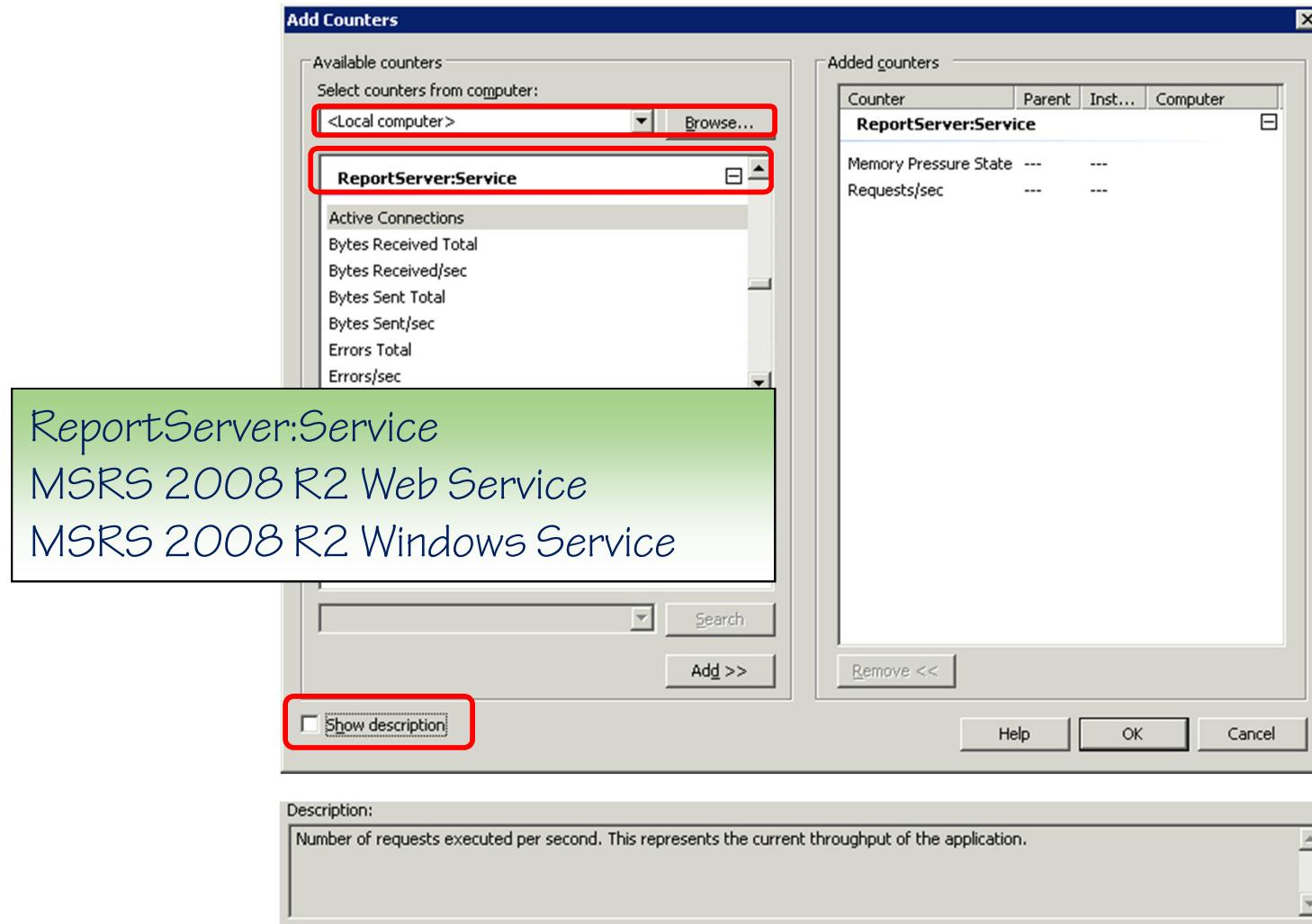
DebugWindow
StdOut

```
<system.diagnostics>
  <switches>
    <add name="DefaultTraceSwitch" value="3" />
  </switches>
</system.diagnostics>
<RStrace>
  <add name="FileName" value="ReportServerService_" />
  <add name="FileSizeLimitMb" value="32" />
  <add name="KeepFilesForDays" value="14" />
  <add name="Prefix" value="appdomain, tid, time" />
  <add name="TraceListeners" value="file" />
  <add name="Trace FileMode" value="unique" />
  <add name="Components" value="all:3" />
</RStrace>
```

HTTP Logs

```
<RStrace>
  <add name="FileName" value="ReportServerService_" />
  <add name="FileSizeLimitMb" value="32" />
  <add name="KeepFilesForDays" value="14" />
  <add name="Prefix" value="appdomain, tid, time" />
  <add name="TraceListeners" value="file" />
  <add name="Trace FileMode" value="unique" />
  <add name="HTTPLogFileName" value="ReportServerService_HTTP_" />
    <add name="HttpTraceSwitches" value="date,time,activityid,sourceactivityid,clientip,username,serverip,
serverport,host,method,uristem,uriquery,protocolstatus,bytesent,bytesreceived,timetaken,protocolversion,
useragent,cookiereceived,cookiesent,referrer" />
      <add name="Components" value="all:3,http:4" />
</RStrace>
```

Performance Counters



Summary

- **Report Server Configuration**
 - Service account, URLs, database, email settings, encryption key, scale-out
- **RS Utility**
 - Script administrative tasks
- **Managing Memory**
 - Thresholds for low, medium, and high memory pressure
- **Surface Area Reduction**
 - Disable features
- **Server Properties**
 - General, execution, history, logging, security
- **Logs**
 - Trace logs, HTTP logs
- **Performance Counters**
 - Current state, trend of operations, cumulative values since last restart

References

- **Reporting Services Configuration Tool**
 - <http://msdn.microsoft.com/en-us/library/ms156305.aspx>
- **Configuring Available Memory for Report Server Applications**
 - <http://msdn.microsoft.com/en-us/library/ms159206.aspx>
- **Minimize SQL Server 2008 R2 Surface Area**
 - <http://msdn.microsoft.com/en-us/library/cc281850.aspx>
- **Server Properties (Advanced Page) – Reporting Services**
 - <http://msdn.microsoft.com/en-us/library/bb934303.aspx>
- **Reporting Services Log Files**
 - [http://msdn.microsoft.com/en-us/library/ms157403\(v=SQL.105\).aspx](http://msdn.microsoft.com/en-us/library/ms157403(v=SQL.105).aspx)
- **Monitoring Report Server Performance**
 - <http://msdn.microsoft.com/en-us/library/ms159809.aspx>
- **Samples for Execution Log**
 - <http://msftrsprodsamples.codeplex.com/wikipage?title=SS2008!Server%20Management%20Sample%20Reports&referringTitle=Home&ProjectName=msftrsprodsamples>