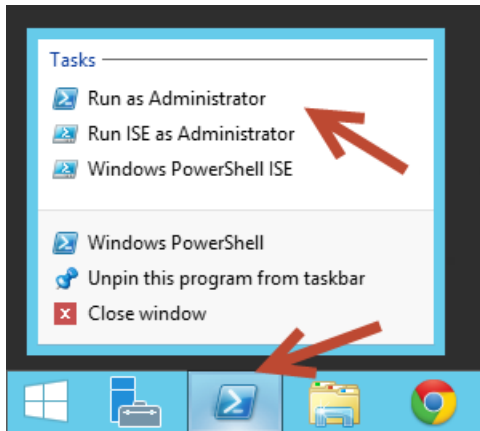


Chapter 1: Getting Started with SQL Server and PowerShell



```
Administrator: Windows PowerShell
PS C:\> Get-Help Compress-Archive

NAME
    Compress-Archive

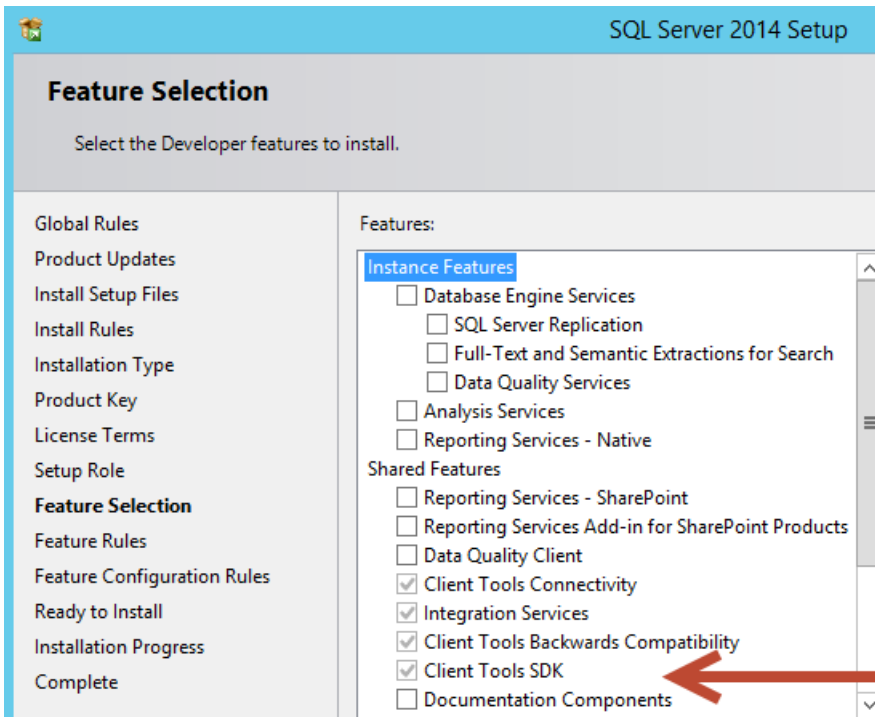
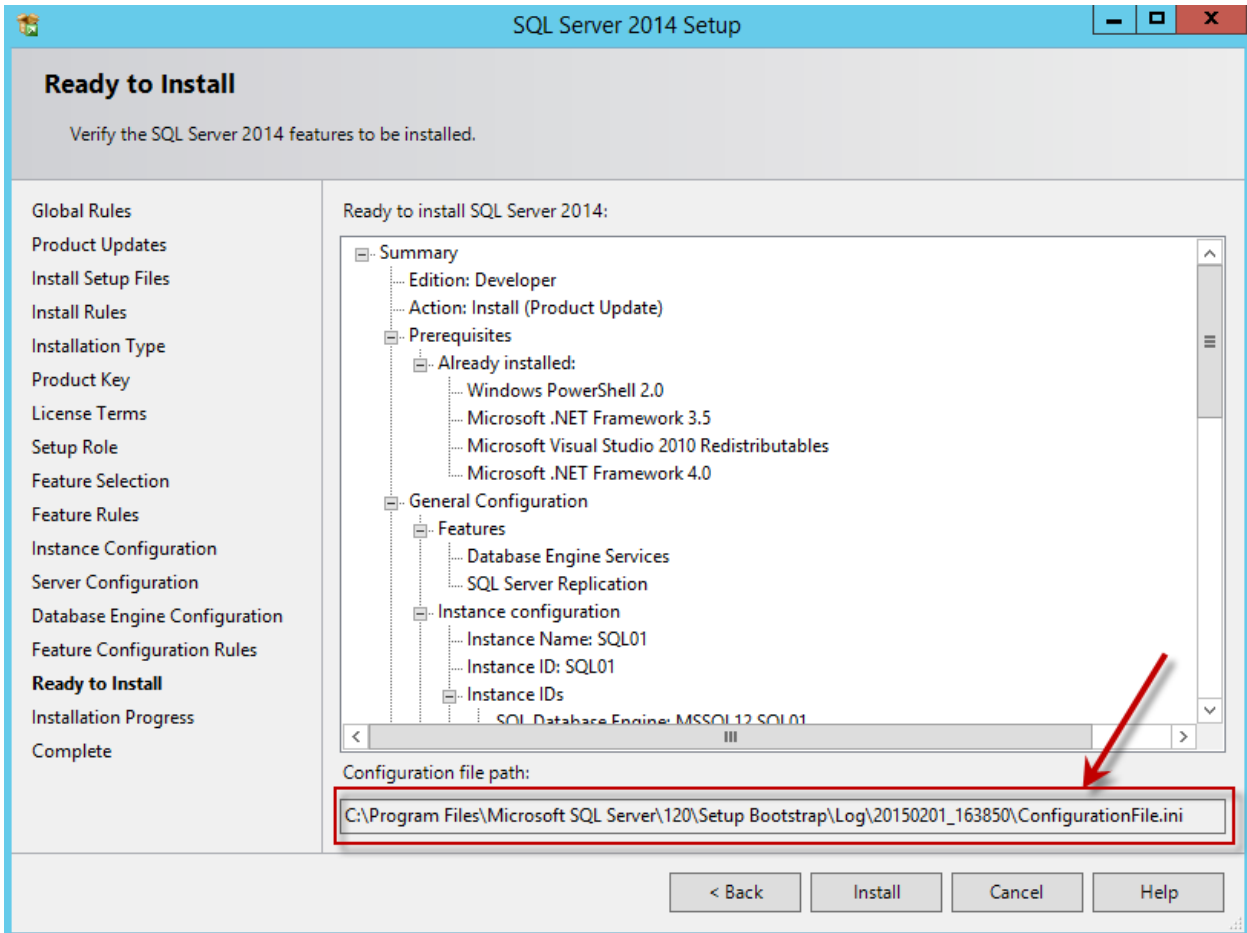
SYNOPSIS
    The Compress-Archive cmdlet can be used to zip/compress one or more
    files/directories.

SYNTAX
    Compress-Archive [-Path] <String[]> [-DestinationPath] <String>
    [-CompressionLevel <String>] [-Update] [-WhatIf] [-Confirm]
    [<CommonParameters>]
```




























```
Administrator: Windows PowerShell
PS C:\> PowerShell -Version 2
Windows PowerShell
Copyright (C) 2009 Microsoft Corporation. All rights reserved.

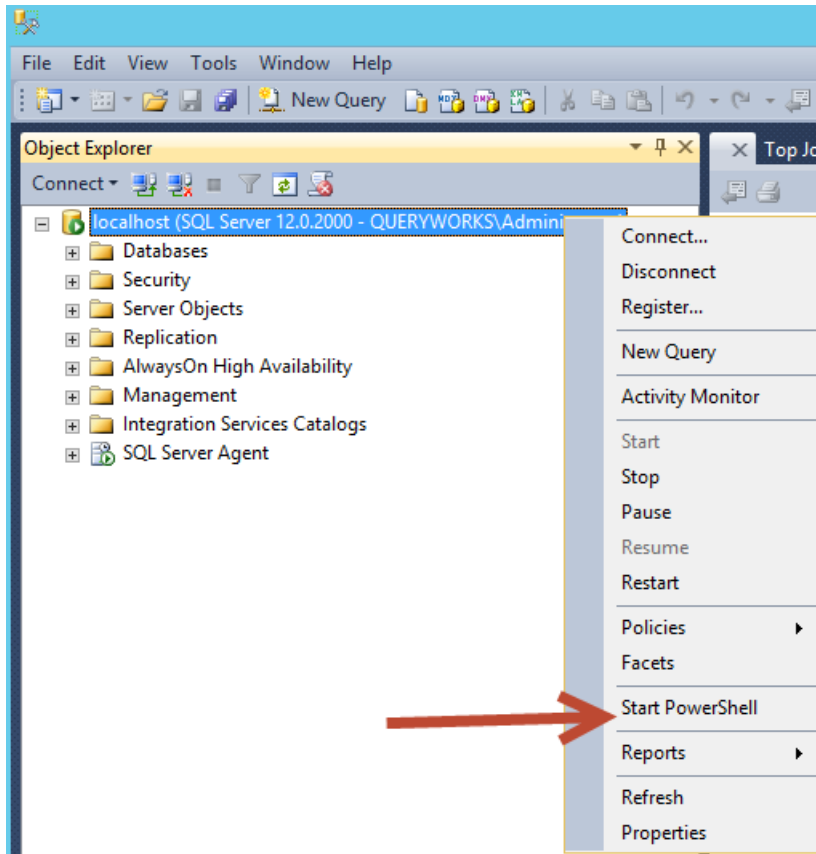
PS C:\> $PSVersionTable

Name                           Value
----                           -
CLRVersion                      2.0.50727.8009
BuildVersion                    6.1.7600.16385
PSVersion                       2.0
WSManStackVersion              2.0
PSCompatibleVersions           {1.0, 2.0}
SerializationVersion          1.1.0.1
PSRemotingProtocolVersion      2.1
```



Local Disk (C:) ▶ Program Files (x86) ▶ Microsoft SQL Server ▶ 120 ▶ SDK ▶ Assemblies ▶

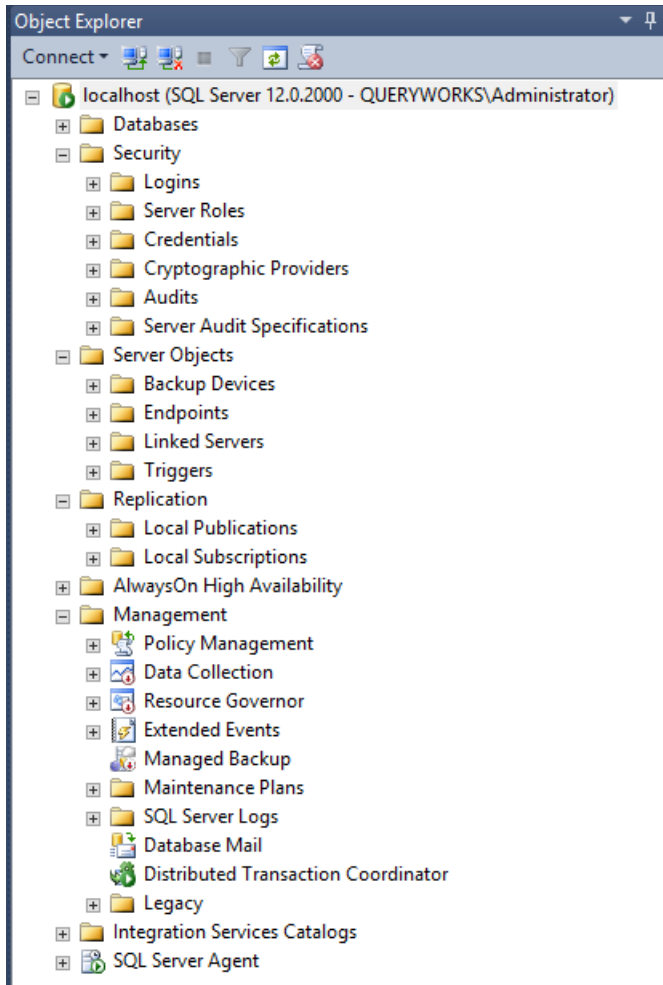
Name	Date modified
 Microsoft.SqlServer.DTSPipelineWrap.dll	2/21/2014 4:27 AM
 Microsoft.SqlServer.DTSRuntimeWrap.dll	2/21/2014 4:27 AM
 Microsoft.SqlServer.ManagedDTS.dll	2/21/2014 4:27 AM
 Microsoft.SqlServer.Management.Collector.dll	2/21/2014 5:27 AM
 Microsoft.SqlServer.Management.CollectorEnum.dll	2/21/2014 5:27 AM
 Microsoft.SqlServer.Management.Sdk.Sfc.dll	2/20/2014 8:44 PM
 Microsoft.SqlServer.Management.Utility.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Management.UtilityEnum.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Management.XEvent.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Management.XEventDbScoped.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Management.XEventDbScopedEnum.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Management.XEventEnum.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.OlapEnum.dll	2/21/2014 4:26 AM
 Microsoft.SqlServer.PipelineHost.dll	2/21/2014 4:26 AM
 Microsoft.SqlServer.PolicyEnum.dll	2/20/2014 8:44 PM
 Microsoft.SqlServer.RegSvrEnum.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.Rmo.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.ServiceBrokerEnum.dll	2/20/2014 8:44 PM
 Microsoft.SqlServer.Smo.dll	2/20/2014 8:44 PM
 Microsoft.SqlServer.SmoExtended.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.SqlEnum.dll	2/20/2014 8:44 PM
 Microsoft.SqlServer.SQLTaskConnectionsWrap.dll	2/21/2014 4:26 AM
 Microsoft.SqlServer.SqlWmiManagement.dll	2/21/2014 5:26 AM
 Microsoft.SqlServer.SString.dll	2/21/2014 5:27 AM
 Microsoft.SqlServer.TransactSql.ScriptDom.dll	2/21/2014 4:26 AM
 Microsoft.SqlServer.Types.dll	2/21/2014 4:28 AM
 Microsoft.SqlServer.WmiEnum.dll	2/21/2014 5:26 AM



```
SQL Server Powershell  
PS SQLSERVER:\SQL\ROGUE\DEFAULT> █
```



```
PS SQLSERVER:\SQL\ROGUE\DEFAULT> dir
Audits
AvailabilityGroups
BackupDevices
Credentials
CryptographicProviders
Databases
Endpoints
JobServer
Languages
LinkedServers
Logins
Mail
ResourceGovernor
Roles
ServerAuditSpecifications
SystemDataTypes
SystemMessages
Triggers
UserDefinedMessages
```



```

SQL Server Powershell
PS SQLSERVER:\SQL\ROGUE\DEFAULT> cd \
PS SQLSERVER:\> dir

Name                Root                Description
----                -
DAC                 SQLSERVER:\DAC      SQL Server Data-Tier
                    Application Component
DataCollection       SQLSERVER:\DataCollection
                    SQL Server Data Collection
SQLPolicy            SQLSERVER:\SQLPolicy
                    SQL Server Policy Management
Utility              SQLSERVER:\Utility
                    SQL Server Utility
SQLRegistration      SQLSERVER:\SQLRegistration
                    SQL Server Registrations
SQL                  SQLSERVER:\SQL      SQL Server Database Engine
SSIS                 SQLSERVER:\SSIS     SQL Server Integration Services
XEvent              SQLSERVER:\XEvent   SQL Server Extended Events
DatabaseXEvent      SQLSERVER:\DatabaseXEvent
                    SQL Server Extended Events
SQLAS                SQLSERVER:\SQLAS    SQL Server Analysis Services
  
```



SQL Server Powershell


```
PS SQLSERVER:\SQL\ROGUE\DEFAULT\Databases\AdventureWorks2014>
```



SQL Server Powershell

```
PS SQLSERVER:\SQL\ROGUE\DEFAULT\Databases\AdventureWorks2014> dir
ApplicationRoles
Assemblies
AsymmetricKeys
Certificates
DatabaseAuditSpecifications
Defaults
ExtendedProperties
ExtendedStoredProcedures
Federations
FileGroups
FullTextCatalogs
FullTextStopLists
LogFiles
PartitionFunctions
PartitionSchemes
PlanGuides
Roles
Rules
Schemas
```

Object Explorer

Connect      

- [-] localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)
 - [-] Databases
 - [-] System Databases
 - [-] Database Snapshots
 - [-] AdventureWorks2014
 - [-] Database Diagrams
 - [-] Tables
 - [-] Views
 - [-] Synonyms
 - [-] Programmability
 - [-] Stored Procedures
 - [-] Functions
 - [-] Database Triggers
 - [-] Assemblies
 - [-] Types
 - [-] Rules
 - [-] Defaults
 - [-] Plan Guides
 - [-] Sequences
 - [-] Service Broker
 - [-] Storage
 - [-] Full Text Catalogs
 - [-] Partition Schemes
 - [-] Partition Functions
 - [-] Full Text Stoplists
 - [-] Search Property Lists
 - [-] Security
 - [-] Users
 - [-] Roles
 - [-] Schemas
 - [-] Asymmetric Keys
 - [-] Certificates
 - [-] Symmetric Keys
 - [-] Database Audit Specifications

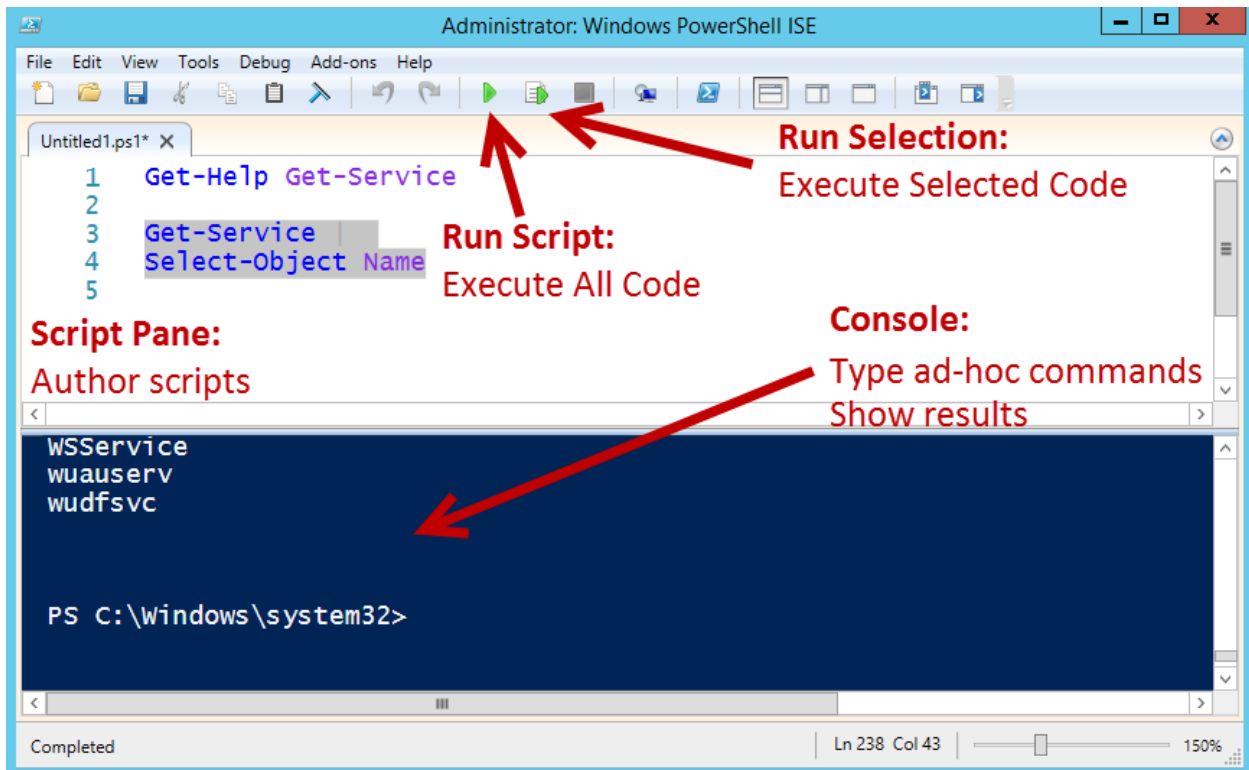

```
SQL Server Powershell
PS SQLSERVER:\SQL\ROGUE\DEFAULT\Databases\AdventureWorks2014>
```

Local Disk (C:) ▶ Program Files (x86) ▶ Microsoft SQL Server ▶ 120 ▶ Tools ▶ PowerShell ▶ Modules ▶

Name	Date modified	Type	Size
SQLASCMDLETS	8/21/2014 7:13 PM	File folder	
SQLPS	8/21/2014 7:13 PM	File folder	

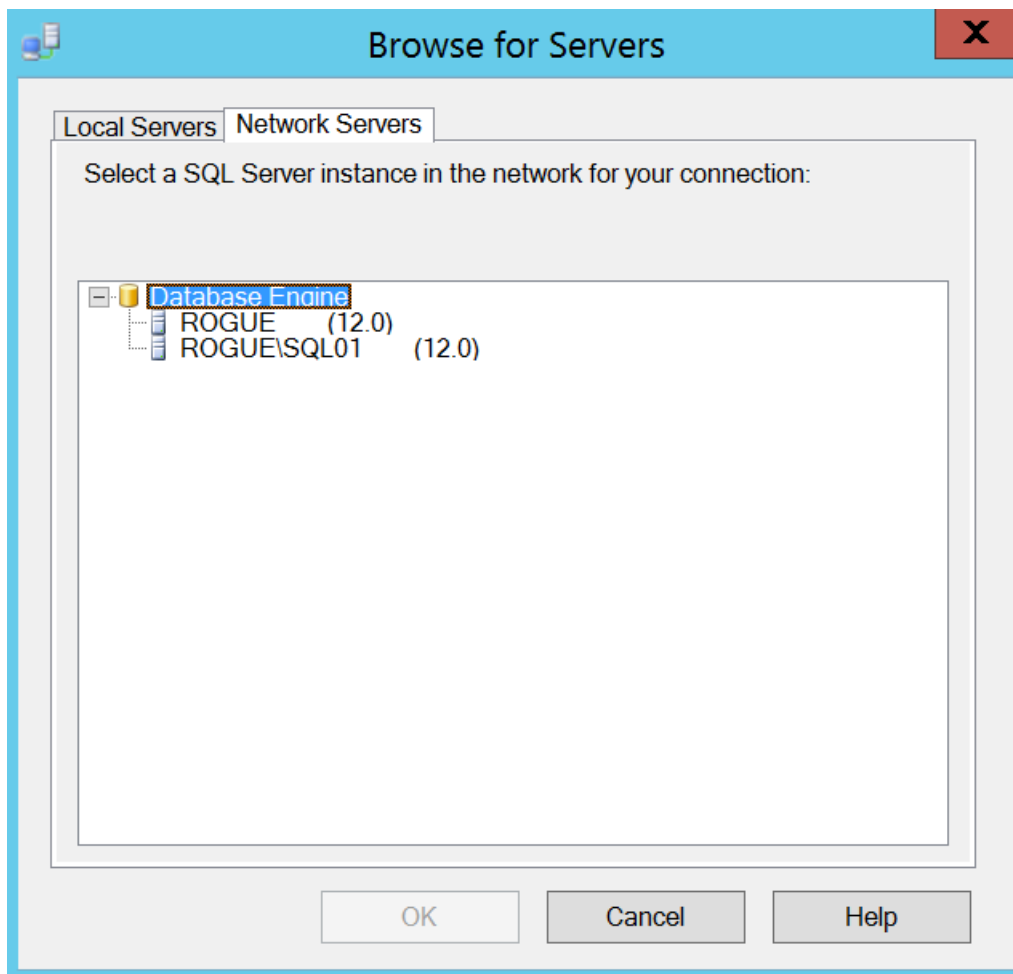
```
FullName
-----
Microsoft.SqlServer.Smo, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.Dmf, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.SqlWmiManagement, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.ConnectionInfo, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.SmoExtended, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.Management.RegisteredServers, Version=12.0.0.0, Culture=neutral, PublicKeyToken=8...
Microsoft.SqlServer.Management.Sdk.Sfc, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd808...
Microsoft.SqlServer.SqlEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.RegSvrEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.WmiEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.ServiceBrokerEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080...
Microsoft.SqlServer.Management.Collector, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8...
Microsoft.SqlServer.Management.CollectorEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845...
Microsoft.SqlServer.Management.Utility, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd808...
Microsoft.SqlServer.Management.UtilityEnum, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dc...
Microsoft.SqlServer.Management.HadrDMF, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd808...
Microsoft.SqlServer.Management.PSSnapins, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8...
Microsoft.SqlServer.Management.PSProvider, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd...
Microsoft.SqlServer.SqlClrProvider, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.SString, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
Microsoft.SqlServer.Management.XEventDbScoped, Version=12.0.0.0, Culture=neutral, PublicKeyToken=8984...
Microsoft.SqlServer.Management.XEvent, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080...
Microsoft.SqlServer.Management.IntegrationServices, Version=12.0.0.0, Culture=neutral, PublicKeyToken...
Microsoft.SqlServer.BatchParser, Version=12.0.0.0, Culture=neutral, PublicKeyToken=89845dcd8080cc91
```

Chapter 2: SQL Server and PowerShell Basic Tasks



```
ServerProtocols : {Np, Sm, Tcp}
Parent          : Microsoft.SqlServer.Management.Smo.Wmi.ManagedComputer
Urn             : ManagedComputer[@Name='localhost']/ServerInstance[@Name='MSSQLSERVER']
Name           : MSSQLSERVER
Properties      : {}
UserData       :
State          : Existing

ServerProtocols : {Np, Sm, Tcp}
Parent          : Microsoft.SqlServer.Management.Smo.Wmi.ManagedComputer
Urn             : ManagedComputer[@Name='localhost']/ServerInstance[@Name='SQL01']
Name           : SQL01
Properties      : {}
UserData       :
State          : Existing
```



```

Name       : MSSQL$SQL01
State      : Existing
Type       : SqlServer
StartMode  : Auto
ProcessId  : 1620

```

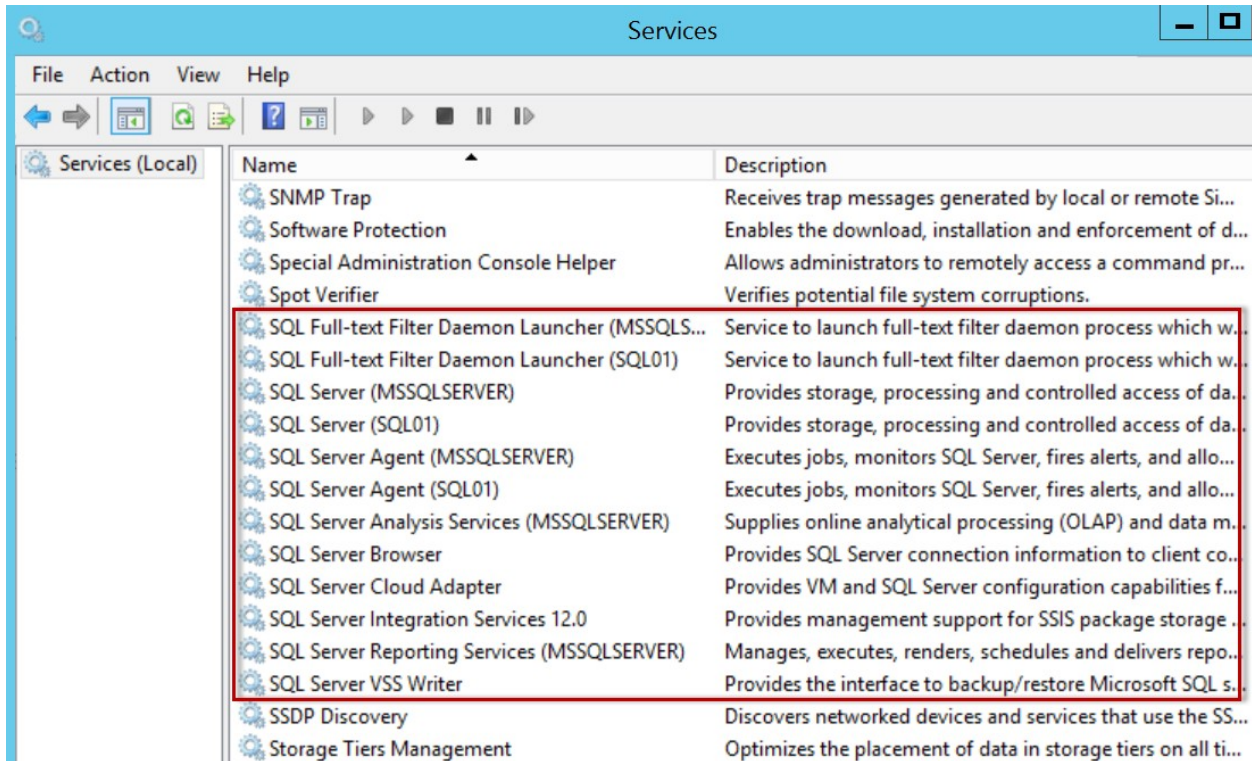
```

Name       : MSSQLSERVER
State      : Existing
Type       : SqlServer
StartMode  : Auto
ProcessId  : 1956

```

ServiceName	DisplayName	SQLServiceType
MSSQL\$SQL01	SQL Server (SQL01)	1
MSSQLSERVER	SQL Server (MSSQLSERVER)	1

ServerName	InstanceName	IsClustered	Version
ROGUE		No	12.0.2000.8
ROGUE	SQL01	No	12.0.2000.8



Name	Type	ServiceState	DisplayName
MsDtsServer120	SqlServerIntegrationService	Stopped	SQL Server Integration Services 12.0
MSSQL\$SQL01	SqlServer	Running	SQL Server (SQL01)
MSSQLFDLauncher	9	Running	SQL Full-text Filter Daemon Launcher (MSSQLSERVER)
MSSQLFDLauncher\$SQL01	9	Running	SQL Full-text Filter Daemon Launcher (SQL01)
MSSQLSERVER	SqlServer	Running	SQL Server (MSSQLSERVER)
MSSQLServerOLAPService	AnalysisServer	Running	SQL Server Analysis Services (MSSQLSERVER)
ReportServer	ReportServer	Stopped	SQL Server Reporting Services (MSSQLSERVER)
SQLAgent\$SQL01	SqlAgent	Stopped	SQL Server Agent (SQL01)
SQLBrowser	SqlBrowser	Running	SQL Server Browser
SQLSERVERAGENT	SqlAgent	Stopped	SQL Server Agent (MSSQLSERVER)

Services

File Action View Help

Services (Local)

Name	Description
SNMP Trap	Receives trap messages generated by local or remote Si...
Software Protection	Enables the download, installation and enforcement of d...
Special Administration Console Helper	Allows administrators to remotely access a command pr...
Spot Verifier	Verifies potential file system corruptions.
SQL Full-text Filter Daemon Launcher (MSSQLS...	Service to launch full-text filter daemon process which w...
SQL Full-text Filter Daemon Launcher (SQL01)	Service to launch full-text filter daemon process which w...
SQL Server (MSSQLSERVER)	Provides storage, processing and controlled access of da...
SQL Server (SQL01)	Provides storage, processing and controlled access of da...
SQL Server Agent (MSSQLSERVER)	Executes jobs, monitors SQL Server, fires alerts, and allo...
SQL Server Agent (SQL01)	Executes jobs, monitors SQL Server, fires alerts, and allo...
SQL Server Analysis Services (MSSQLSERVER)	Supplies online analytical processing (OLAP) and data m...
SQL Server Browser	Provides SQL Server connection information to client co...
SQL Server Cloud Adapter	Provides VM and SQL Server configuration capabilities f...
SQL Server Integration Services 12.0	Provides management support for SSIS package storage .
SQL Server Reporting Services (MSSQLSERVER)	Manages, executes, renders, schedules and delivers repo...
SQL Server VSS Writer	Provides the interface to backup/restore Microsoft SQL s...
SSDP Discovery	Discovers networked devices and services that use the SS...
Storage Tiers Management	Optimizes the placement of data in storage tiers on all ti...

Services

File Action View Help

Services (Local)

Name	Description	Status	Startup Type
Software Protection	Enables the download, insta...		Automatic (D...
Special Administration Console Helper	Allows administrators to re...		Manual
Spot Verifier	Verifies potential file system...		Manual (Trig...
SQL Full-text Filter Daemon Launcher (MSSQLS...	Service to launch full-text fil...	Running	Manual
SQL Full-text Filter Daemon Launcher (SQL01)	Service to launch full-text fil...	Running	Manual
SQL Server (MSSQLSERVER)	Provides storage, processin...	Running	Automatic
SQL Server (SQL01)	Provides storage, processin...	Running	Automatic
SQL Server Agent (MSSQLSERVER)	Executes jobs, monitors SQL...		Automatic
SQL Server Agent (SQL01)	Executes jobs, monitors SQL...		Manual
SQL Server Analysis Services (MSSQLSERVER)	Supplies online analytical pr...	Running	Automatic
SQL Server Browser	Provides SQL Server connec...	Running	Automatic
SQL Server Cloud Adapter	Provides VM and SQL Server...	Running	Automatic
SQL Server Integration Services 12.0	Provides management supp...		Automatic
SQL Server Reporting Services (MSSQLSERVER)	Manages, executes, renders,...	Running	Automatic
SQL Server VSS Writer	Provides the interface to ba...	Running	Automatic
SSDP Discovery	Discovers networked device...		Disabled
Storage Tiers Management	Optimizes the placement of ...		Manual
Superfetch	Maintains and improves sys...		Manual

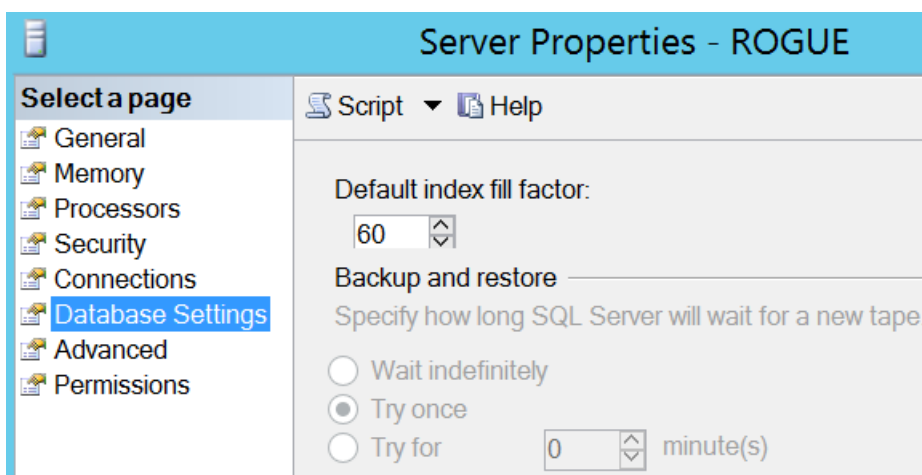
CommandType	Name
cmdlet	Get-Service
cmdlet	New-Service
cmdlet	New-WebServiceProxy
cmdlet	Restart-Service
cmdlet	Resume-Service
cmdlet	Set-Service
cmdlet	Start-Service
cmdlet	Stop-Service
cmdlet	Suspend-Service

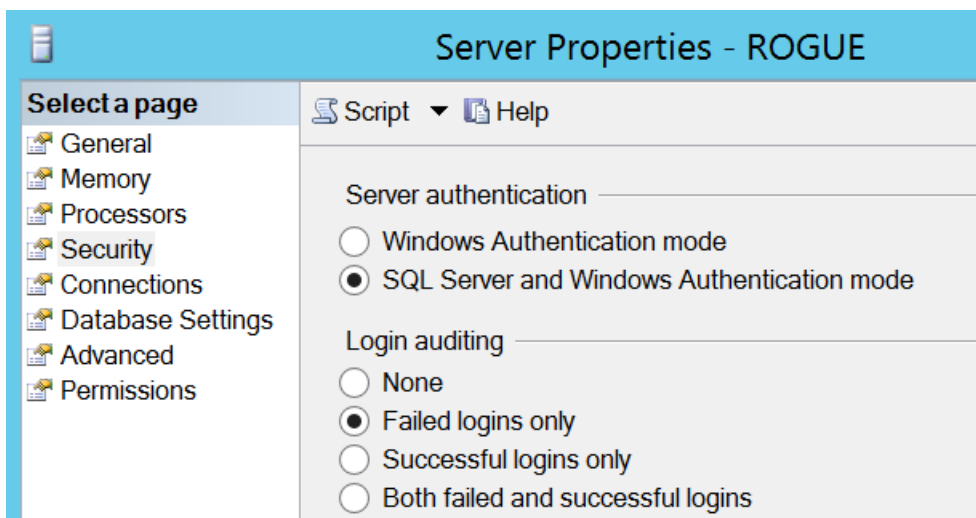
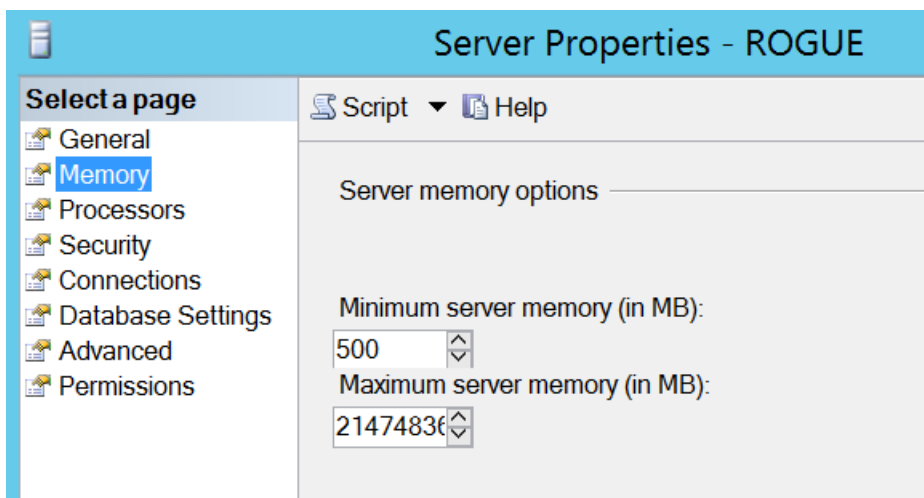
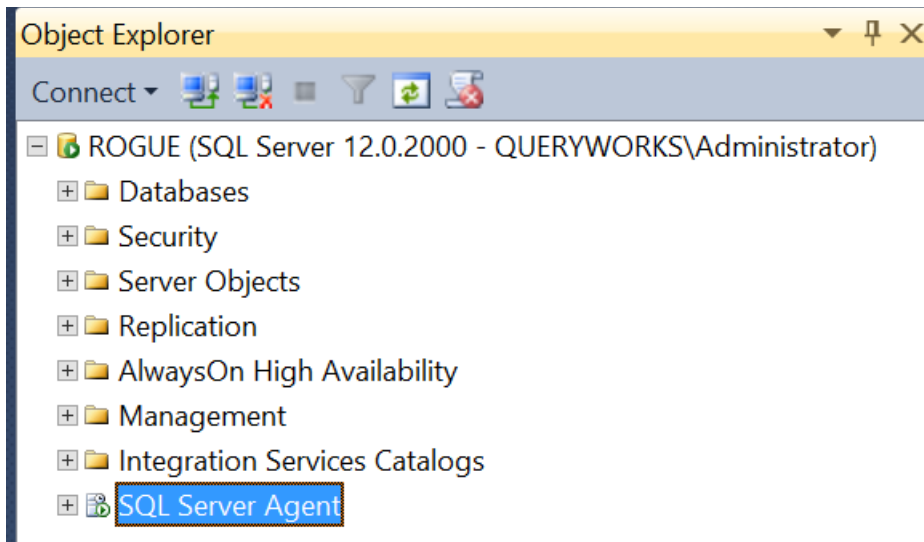
Name	Value
BuildNumber	2000
Edition	Developer Edition (64-bit)
ErrorLogPath	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\Log
HasNullSaPassword	
IsCaseSensitive	False
IsFullTextInstalled	True
IsXTPSupported	True
Language	English (United States)
MasterDBLogPath	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA
MasterDBPath	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA
MaxPrecision	38
NetName	ROGUE
OSVersion	6.3 (9600)
PhysicalMemory	10999
Platform	NT x64
Processors	4
Product	Microsoft SQL Server
RootDirectory	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL
VersionMajor	12
VersionMinor	0
VersionString	12.0.2000.8
Collation	SQL_Latin1_General_CP1_CI_AS
EngineEdition	3
IsClustered	False
IsSingleUser	False
ProductLevel	RTM
BuildClrVersionString	v4.0.30319

Name	Value
AuditLevel	All
BackupDirectory	C:\Temp
DefaultFile	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\
DefaultLog	C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\
LoginMode	Integrated
MailProfile	
NumberOfLogFiles	-1
PerfMonMode	None
TapeLoadWaitTime	-1

Name	Value
----	-----
AbortOnArithmeticErrors	False
AbortTransactionOnError	False
AnsiNullDefaultoff	False
AnsiNullDefaulton	False
AnsiNulls	False
AnsiPadding	False
AnsiWarnings	False
ConcatenateNullYieldsNull	False
CursorCloseOnCommit	False
DisableDefaultConstraintCheck	False
IgnoreArithmeticErrors	False
ImplicitTransactions	False
NoCount	False
NumericRoundAbort	False
QuotedIdentifier	False

DisplayName	RunValue	ConfigValue
recovery interval (min)	0	0
allow updates	0	0
user connections	0	0
locks	0	0
open objects	0	0
fill factor (%)	0	0
disallow results from triggers	0	0
nested triggers	1	1
server trigger recursion	1	1
remote access	1	1
default language	0	0
cross db ownership chaining	0	0
max worker threads	0	0
network packet size (B)	4096	4096
show advanced options	0	0
remote proc trans	0	0
c2 audit mode	0	0
default full-text language	1033	1033
two digit year cutoff	2049	2049
index create memory (KB)	0	0
priority boost	0	0
remote login timeout (s)	10	10
remote query timeout (s)	600	600
cursor threshold	-1	-1
set working set size	0	0
user options	0	0
affinity mask	0	0
max text repl size (B)	65536	65536





1 | sp_configure

100 % <

Results Messages

	name	minimum	maximum	config_value	run_value
1	allow updates	0	1	0	0
2	backup checksum default	0	1	0	0
3	backup compression default	0	1	0	0
4	clr enabled	0	1	0	0
5	contained database authentication	0	1	0	0
6	cross db ownership chaining	0	1	0	0
7	default language	0	9999	0	0
8	filestream access level	0	2	2	2
9	max text repl size (B)	-1	2147483647	65536	65536
10	nested triggers	0	1	1	1
11	remote access	0	1	1	1
12	remote admin connections	0	1	0	0
13	remote login timeout (s)	0	2147483647	10	10
14	remote proc trans	0	1	0	0
15	remote query timeout (s)	0	2147483647	600	600
16	server trigger recursion	0	1	1	1
17	show advanced options	0	1	0	0

ObjectType	ObjectName
-----	-----
Schemas	Production
StoredProcedures	uspGetWhereUsedProductID
Tables	Product
Tables	ProductCategory
Tables	ProductCostHistory
Tables	ProductDescription
Tables	ProductDocument
Tables	ProductInventory
Tables	ProductListPriceHistory
Tables	ProductModel
Tables	ProductModelIllustration
Tables	ProductModelProductDescriptionCulture
Tables	ProductPhoto
Tables	ProductProductPhoto
Tables	ProductReview
Tables	ProductSubcategory
Tables	ProductVendor
Tables	SpecialOfferProduct
UserDefinedFunctions	ufnGetProductDealerPrice
UserDefinedFunctions	ufnGetProductListPrice
UserDefinedFunctions	ufnGetProductStandardCost
Views	vProductAndDescription
Views	vProductModelCatalogDescription
Views	vProductModelInstructions
XmlSchemaCollections	ProductDescriptionSchemaCollection

- [-] AdventureWorks2014
 - [+] Database Diagrams
 - [+] Tables
 - [+] Views
 - [+] Synonyms
 - [-] Programmability
 - [-] Stored Procedures
 - [+] System Stored Procedures
 - [+] dbo.uspGetBillOfMaterials
 - [+] dbo.uspGetEmployeeManagers
 - [+] dbo.uspGetManagerEmployees
 - [+] dbo.uspGetPersonByLastName
 - [+] dbo.uspGetWhereUsedProductID
 - [+] dbo.uspLogError
 - [+] dbo.uspPrintError
 - [+] dbo.uspSearchCandidateResumes
 - [+] HumanResources.uspUpdateEmployeeHireInfo
 - [+] HumanResources.uspUpdateEmployeeLogin
 - [+] HumanResources.uspUpdateEmployeePersonalInfo

Local Disk (C:) ▶ DATA

Name

- AdventureWorks2014_uspGetBillOfMaterials.sql
- AdventureWorks2014_uspGetEmployeeManagers.sql
- AdventureWorks2014_uspGetManagerEmployees.sql
- AdventureWorks2014_uspGetWhereUsedProductID.sql
- AdventureWorks2014_uspLogError.sql
- AdventureWorks2014_uspPrintError.sql
- AdventureWorks2014_uspSearchCandidateResumes.sql
- AdventureWorks2014_uspUpdateEmployeeHireInfo.sql
- AdventureWorks2014_uspUpdateEmployeeLogin.sql
- AdventureWorks2014_uspUpdateEmployeePersonalInfo.sql

[-] Programmability

- [-] Stored Procedures
 - + System Stored Procedures
 - + **dbo.uspGetBillOfMaterial**
 - + dbo.uspGetEmployeeMa
 - + dbo.uspGetManagerEmp
 - + dbo.uspGetPersonByLas
 - + dbo.uspGetWhereUsedP
 - + dbo.uspLogError
 - + dbo.uspPrintError
 - + dbo.uspSearchCandidate
 - + HumanResources.uspUp
 - + HumanResources.uspUp
 - + HumanResources.uspUp
- + Functions
- + Database Triggers

Context menu for **dbo.uspGetBillOfMaterial**:

- New Stored Procedure...
- Modify
- Execute Stored Procedure...
- Script Stored Procedure as**
- View Dependencies
- Native Compilation Advisor
- Policies
- Facets
- Start PowerShell
- Reports
- Rename

Sub-menu for **Script Stored Procedure as**:

- CREATE To
- ALTER To
- DROP To
- DROP And CREATE To
- SELECT To
- INSERT To
- UPDATE To
- DELETE To

[-] localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)

- [-] **Databases**
- + System Databases
- + Database Snapshots
- + AdventureWorks2014
- + AdventureWorksLT2012
- + Chinook
- + pubs
- + Registration
- + **TestDB (Restricted User / Read-Only)**

Database Properties - TestDB

Select a page: General, Files, Filegroups, Options, Change Tracking, Permissions, Extended Properties, Mirroring, Transaction Log Ship

Script Help

Collation: SQL_Latin1_General_CP1_CI_AS

Recovery model: Full

Compatibility level: SQL Server 2012 (110)

Containment type: None

Other options:

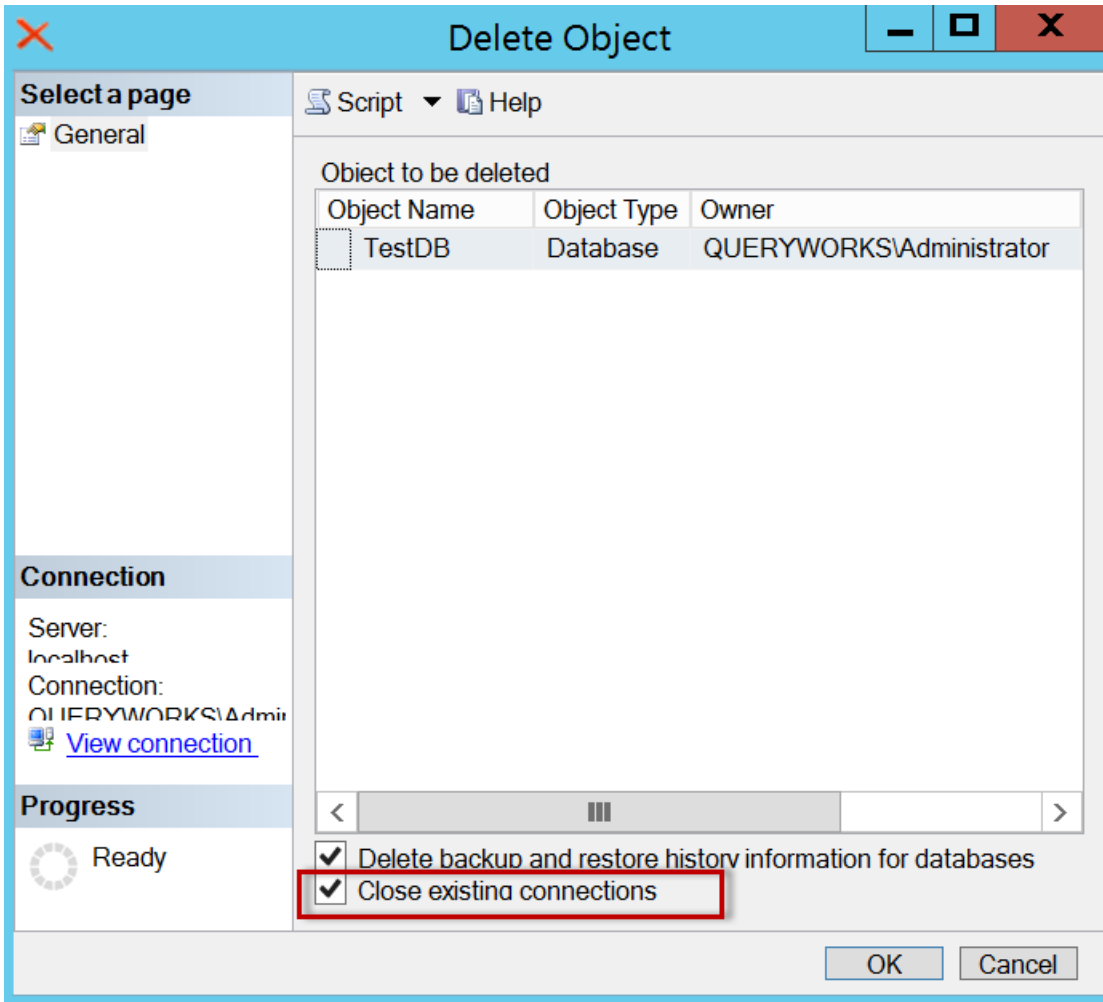
Default Cursor	GLOBAL
FILESTREAM	
FILESTREAM Directory Name	
FILESTREAM Non-Transacted Access	Off
Miscellaneous	
Allow Snapshot Isolation	True
ANSI NULL Default	False
ANSI NULLS Enabled	False
ANSI Padding Enabled	False
ANSI Warnings Enabled	False
Arithmetic Abort Enabled	False
Concatenate Null Yields Null	False
Cross-database Ownership Chaining Enabled	False
Date Correlation Optimization Enabled	False
Delayed Durability	Disabled
In-Doubt Committed Snapshot On	False

Allow Snapshot Isolation

Connection: Server: localhost, Connection: OLEDB for MS SQL Server, View connection

Progress: Ready

OK Cancel



Database Properties - TestDB

Select a page

- General
- Files
- Filegroups
- Options
- Change Tracking
- Permissions
- Extended Properties
- Mirroring
- Transaction Log Ship

Script Help


Backup	
Last Database Backup	None
Last Database Log Backup	None


Database	
Name	TestDB
Status	Normal
Owner	QUERYWORKS\srogers
Date Created	2/13/2015 10:25:38 AM
Size	5.00 MB
Space Available	1.82 MB
Number of Users	4
Memory Allocated To Memory O	0.00 MB
Memory Used By Memory Optim	0.00 MB


Maintenance	
Collation	SQL_Latin1_General_CP1_CI_AS

Connection


- dbo.Student
 - Columns
 - StudentID (PK, int, not null)
 - FName (varchar(50), null)
 - LName (varchar(50), not null)
 - DateOfBirth (datetime, null)
 - Age (Computed, int, null)
 - Keys
 - PK_Student_StudentID
 - Constraints
 - DF_Student_DateOfBirth
 - DF_Student_LName
 - Triggers
 - Indexes
 - PK_Student_StudentID (Clustered)
 - Statistics

- [-] 🌐 localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)
 - [-] 📁 Databases
 - + 📁 System Databases
 - + 📁 Database Snapshots
 - [-] 📁 AdventureWorks2014
 - + 📁 Database Diagrams
 - + 📁 Tables
 - [-] 📁 Views
 - + 📁 System Views
 - + 📄 dbo.vwVCPerson 
 - + 📄 HumanResources.vEmployee
 - + 📄 HumanResources.vEmployeeDepartment
 - + 📄 HumanResources.vEmployeeDepartmentHistory
 - + 📄 HumanResources.vJobCandidate
 - + 📄 HumanResources.vJobCandidateEducation
 - + 📄 HumanResources.vJobCandidateEmployment

- [-] 🌐 localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)
 - [-] 📁 Databases
 - + 📁 System Databases
 - + 📁 Database Snapshots
 - [-] 📁 AdventureWorks2014
 - + 📁 Database Diagrams
 - + 📁 Tables
 - + 📁 Views
 - + 📁 Synonyms
 - [-] 📁 Programmability
 - [-] 📁 Stored Procedures
 - + 📁 System Stored Procedures
 - + 📄 dbo.uspGetBillOfMaterials
 - + 📄 dbo.uspGetEmployeeManagers
 - + 📄 dbo.uspGetManagerEmployees
 - + 📄 dbo.uspGetPersonByLastName 
 - + 📄 dbo.uspGetWhereUsedProductID
 - + 📄 dbo.uspLogError
 - + 📄 dbo.uspPrintError
 - + 📄 dbo.uspSearchCandidateResumes

- [-] Person.Person
 - [+] Columns
 - [+] Keys
 - [+] Constraints
 - [-] Triggers
 - iuPerson
 - tr_u_Person 
 - [+] Indexes
 - [+] Statistics

UpdatedOn	UpdatedBy	NewLastName	NewFirstName	OldLastName	OldFirstName
2/14/2015 10:07:20 PM	QUERYWORKS\Administrator	Zhang	Frankk	Zhang	Frank

- [-] Person.Person
 - [+] Columns
 - [+] Keys
 - [+] Constraints
 - [+] Triggers
 - [-] Indexes
 - AK_Person_rowguid (Unique, Non-Clustered)
 - idxLastNameFirstName (Non-Unique, Non-Clustered) 
 - IX_Person_LastName_FirstName_MiddleName (Non-Unique, Non-Clustered)
 - PK_Person_BusinessEntityID (Clustered)
 - PXML_Person_AddContact (Primary XML)
 - PXML_Person_Demographics (Primary XML)
 - XMLPATH_Person_Demographics (Secondary XML, Path)
 - XMLPROPERTY_Person_Demographics (Secondary XML, Property)
 - XMLVALUE_Person_Demographics (Secondary XML, Value)
 - [+] Statistics

```

PS SQLSERVER:\> Get-Help Import-Person

NAME
    Import-Person

SYNOPSIS
    Very simple function to get number
    of records in Test.Person

SYNTAX
    Import-Person [[-instanceName] <String>] [[-dbName] <String>] [[-fileName] <String>]
    [<CommonParameters>]

DESCRIPTION

RELATED LINKS
    http://www.sqlbelle.com

REMARKS
    To see the examples, type: "get-help Import-Person -examples".
    For more information, type: "get-help Import-Person -detailed".
    For technical information, type: "get-help Import-Person -full".
    For online help, type: "get-help Import-Person -online"

```

```







Name : master
CollationName : SQL_Latin1_General_CP1_CI_AS
Edition : System
MaxSizeGB : 5
MaxSizeBytes : 5368709120
ServiceObjectiveName : System2
ServiceObjectiveAssignmentStateDescription :
CreationDate : 2/21/2015 8:50:41 AM
RecoveryPeriodStartDate :


Name : School
CollationName : SQL_Latin1_General_CP1_CI_AS
Edition : Standard
MaxSizeGB : 250
MaxSizeBytes : 268435456000
ServiceObjectiveName : S0
ServiceObjectiveAssignmentStateDescription :
CreationDate : 2/21/2015 8:52:30 AM
RecoveryPeriodStartDate : 2/21/2015 8:58:07 AM


```














TABLE_CATALOG	TABLE_SCHEMA	TABLE_NAME	TABLE_TYPE
School	sys	database_firewall_rules	VIEW
School	dbo	Student	BASE TABLE

Object Explorer

Connect ▾      

⊕  localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)

⊖  database.windows.net,1433 (SQL Server 13.0.14 - donabel)

- ⊖  Databases
 - ⊕  System Databases
 - ⊖  School
 - ⊖  Tables
 - ⊕  System Tables
 - ⊕  **dbo.Student** 
 - ⊕  Views
 - ⊕  Synonyms
 - ⊕  Programmability
 - ⊕  Extended Events
 - ⊕  Security
 - ⊕  Federations

Chapter 3: Basic Administration

```
TypeName: Microsoft.SqlServer.Management.Smo.Server
```

Name	MemberType	Definition
ActiveDirectory	Property	Microsoft.SqlServer.Management.Smo.ServerActiveDirectory ActiveDirectory {get;}
AffinityInfo	Property	Microsoft.SqlServer.Management.Smo.AffinityInfo AffinityInfo {get;}
AuditLevel	Property	Microsoft.SqlServer.Management.Smo.AuditLevel AuditLevel {get;set;}
Audits	Property	Microsoft.SqlServer.Management.Smo.AuditCollection Audits {get;}
AvailabilityGroups	Property	Microsoft.SqlServer.Management.Smo.AvailabilityGroupCollection AvailabilityGroups
BackupDevices	Property	Microsoft.SqlServer.Management.Smo.BackupDeviceCollection BackupDevices {get;}
BackupDirectory	Property	string BackupDirectory {get;set;}
BrowserServiceAccount	Property	string BrowserServiceAccount {get;}
BrowserStartMode	Property	Microsoft.SqlServer.Management.Smo.ServiceStartMode BrowserStartMode {get;}
BuildClrVersion	Property	version BuildClrVersion {get;}
BuildClrVersionString	Property	string BuildClrVersionString {get;}
BuildNumber	Property	int BuildNumber {get;}
ClusterName	Property	string ClusterName {get;}
ClusterQuorumState	Property	Microsoft.SqlServer.Management.Smo.ClusterQuorumState ClusterQuorumState {get;}
ClusterQuorumType	Property	Microsoft.SqlServer.Management.Smo.ClusterQuorumType ClusterQuorumType {get;}
Collation	Property	string collation {get;}
CollationID	Property	int CollationID {get;}
ComparisonStyle	Property	int ComparisonStyle {get;}
ComputerNamePhysicalNetBIOS	Property	string ComputerNamePhysicalNetBIOS {get;}
Configuration	Property	Microsoft.SqlServer.Management.Smo.Configuration Configuration {get;}
ConnectionContext	Property	Microsoft.SqlServer.Management.Common.ServerConnection ConnectionContext {get;}

1	Name	Value
2	ActiveDirectory	
3	AffinityInfo	Microsoft.SqlServer.Management.Smo.AffinityInfo
4	AuditLevel	All
5	Audits	
6	AvailabilityGroups	
7	BackupDevices	
8	BackupDirectory	C:\Temp
9	BrowserServiceAccount	NT AUTHORITY\LOCALSERVICE
10	BrowserStartMode	Auto
11	BuildClrVersion	4.0.30319
12	BuildClrVersionString	v4.0.30319
13	BuildNumber	
14	ClusterName	
15	ClusterQuorumState	NotApplicable
16	ClusterQuorumType	NotApplicable
17	Collation	SQL_Latin1_General_CP1_CI_AS
18	CollationID	
19	ComparisonStyle	
20	ComputerNamePhysicalNetBIOS	ROGUE
21	Configuration	Microsoft.SqlServer.Management.Smo.Configuration

	A	
103	Triggers	
104	Urn	Server[@Name='ROGUE']
105	UserData	
106	UserDefinedMessages	
107	UserOptions	Microsoft.SqlServer.Management.Smo.UserOptions
108	Version	12.0.2000
109	VersionMajor	
110	VersionMinor	
111	VersionString	12.0.2000.8
112	Job: Agent history clean up: distribution	Last run: 02/26/2015 08:40:00 (Succeeded)
113	Job: Backup Database	Last run: 10/23/2014 12:35:28 (Succeeded)
114	Job: Distribution clean up: distribution	Last run: 02/26/2015 08:35:00 (Succeeded)
115	Job: Expired subscription clean up	Last run: 02/26/2015 01:00:00 (Succeeded)
116	Job: Export Client Data	Last run: 10/23/2014 12:34:39 (Failed)
117	Job: Reinitialize subscriptions having data validation failures	Last run: 01/01/0001 00:00:00 (Unknown)
118	Job: Replication agents checkup	Last run: 02/26/2015 08:40:00 (Succeeded)
119	Job: Replication monitoring refresher for distribution.	Last run: 01/01/0001 00:00:00 (Unknown)
120	Job: ROGUE-Registration-1	Last run: 11/28/2014 09:02:39 (Failed)
121	Job: ROGUE-Registration-Registration-1	Last run: 10/25/2014 12:24:01 (Succeeded)
122	Job: ROGUE-Registration-Registration-ROGUE\SQL2014-3	Last run: 11/28/2014 09:02:39 (Failed)
123	Job: syspolicy_purge_history	Last run: 02/26/2015 02:00:00 (Succeeded)
124	Job: Test Job	Last run: 11/28/2014 10:24:25 (Failed)
125		

	A	B	C	D	E
1	DatabaseName	CreateDate	Owner	RecoveryModel	SizeMB
2	AdventureWorks2014	9/6/2014 2:01:44 PM	QUERYWORKS\Administrator	Simple	303.25
3	AdventureWorksLT2012	9/6/2014 2:03:14 PM	QUERYWORKS\Administrator	Simple	9.0625
4	Chinook	10/20/2014 9:42:09 PM	QUERYWORKS\Administrator	Full	6
5	distribution	10/25/2014 12:21:58 PM	sa	Simple	8.25
6	master	4/8/2003 9:13:36 AM	sa	Simple	6.25
7	model	4/8/2003 9:13:36 AM	sa	Full	3.9375
8	msdb	2/20/2014 8:49:38 PM	sa	Simple	16.3125
9	pubs	9/6/2014 1:58:12 PM	QUERYWORKS\Administrator	Full	4
10	Registration	10/20/2014 3:59:33 PM	QUERYWORKS\Administrator	Full	19
11	tempdb	2/27/2015 6:28:51 AM	sa	Simple	8.75
12	TestDB	2/13/2015 10:25:38 AM	QUERYWORKS\srogers	Full	16.25

```

Name Spid Command Status Login Database BlockingSpid
-----
1 1 UNKNOWN_TOKEN background sa master 0
2 2 UNKNOWN_TOKEN background sa master 0
3 3 UNKNOWN_TOKEN background sa master 0
4 4 LOG_WRITER background sa master 0
5 5 LAZY_WRITER background sa master 0
6 6 RECOVERY_WRITER background sa master 0
7 7 SIGNAL_HANDLER background sa master 0
8 8 XTP_THREAD_POOL background sa master 0
9 9 TASK_MANAGER sleeping sa master 0
10 10 XTP_CKPT_AGENT background sa master 0
11 11 LOCK_MONITOR background sa master 0
12 12 TASK_MANAGER sleeping sa master 0
13 13 TRACE_QUEUE_TASK background sa master 0
14 14 SYSTEM_HEALTH_MONITOR background sa master 0
15 15 RECEIVE background sa master 0
16 16 UNKNOWN_TOKEN background sa master 0
17 17 TASK_MANAGER sleeping sa master 0
18 18 TASK_MANAGER background sa master 0
19 19 CHECKPOINT background sa master 0
20 20 BRKR_TASK background sa master 0
21 21 TASK_MANAGER sleeping sa master 0
22 22 TASK_MANAGER sleeping sa master 0
23 23 TASK_MANAGER sleeping sa master 0
24 24 TASK_MANAGER sleeping sa master 0
25 25 TASK_MANAGER sleeping sa master 0
26 26 TASK_MANAGER sleeping sa master 0
28 28 TASK_MANAGER sleeping sa master 0

```

```

Name Spid Command Status Login Database BlockingSpid
-----
55 55 SELECT suspended QUERYWORKS\Administrator Adventureworks2014 54

```

```

Name DeviceType SizeGB FreeSpaceGB FreeSpacePercent
-----
C:\ Local Disk 120.00 95.15 79 %
D:\ Compact Disk 2.43 0.00 0 %

```

	is_broker_enabled	name	database_id
1	0	AdventureWorks2014	7
2	0	AdventureWorksLT2012	8
3	0	Chinook	6
4	1	distribution	10
5	0	master	1
6	0	model	3
7	1	msdb	4
8	1	pubs	5
9	0	Registration	9
10	1	tempdb	2
11	0	TestDB	11

Id	Name	PSJobTypeName	State	HasMoreData	Location	Command
2	SQLLoginEvent		NotStarted	False		...

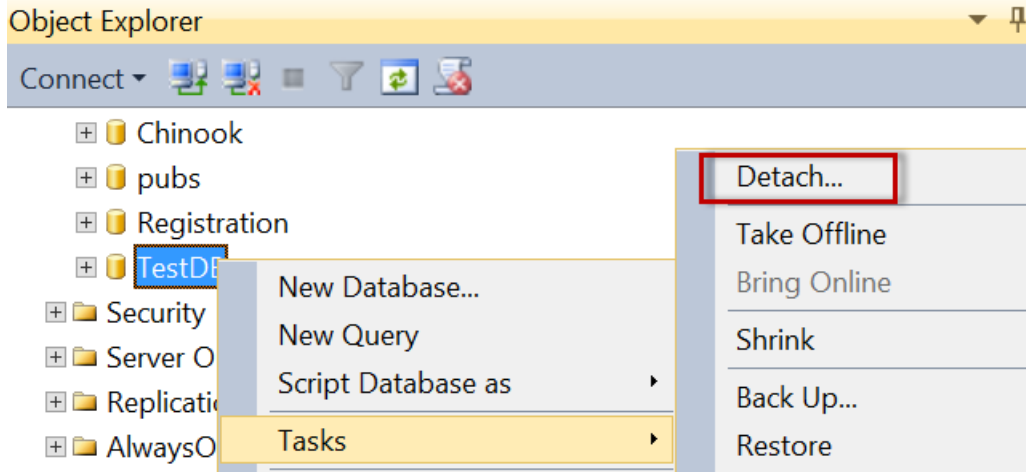
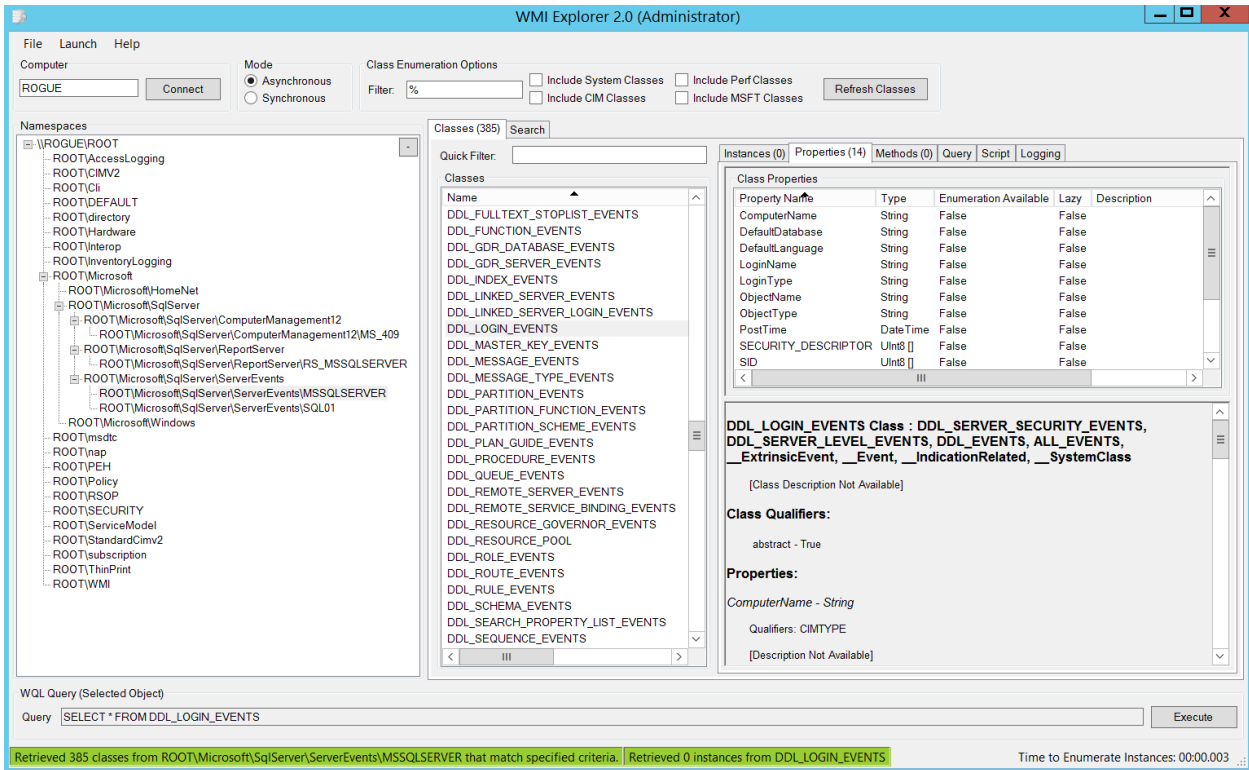
Local Disk (C:) ▶ Temp

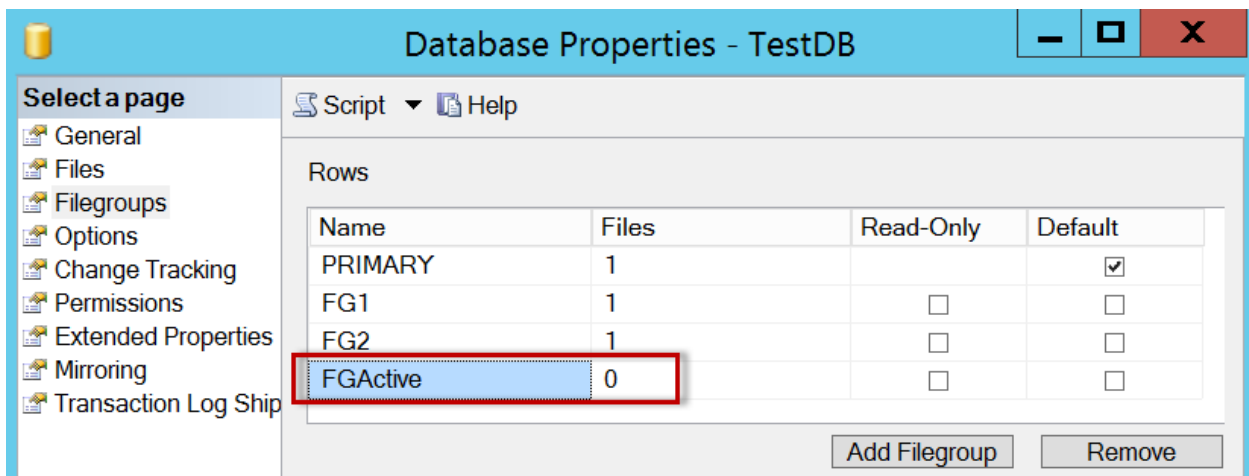
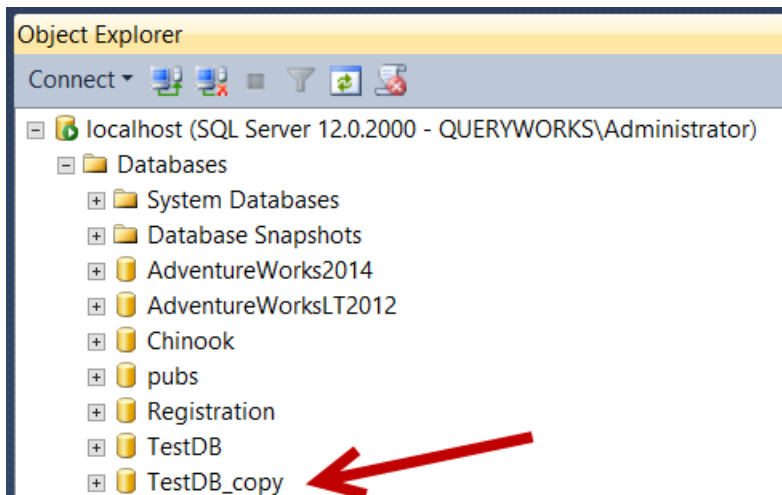
Name	Date modified	Type
LoginEvent-2015-02-28_112AM.txt	2/28/2015 1:12 AM	Text Document

```

C:\Temp>LoginEvent-2015-02-28_112AM.txt - Notepad++ [Administrator]
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
LoginEvent-2015-02-28_112AM.txt
1
2 DDL Login Event Occurred
3
4 PostTime: 20150228011239.000530+000
5 Instance: MSSQLSERVER
6 LoginType: SQL Login
7 LoginName: QUERYWORKS\Administrator
8 SID:      77 26 6 157 36 251 37 79 179 136 24 29 209 32 43 81
9 SPID:     58
10 TSQLCommand: <TSQLCommand><SetOptions ANSI_NULLS="ON"
ANSI_NULL_DEFAULT="ON" ANSI_PADDING="ON" QUOTED_IDENTIFIER="ON"
ENCRYPTED="FALSE"></SetOptions><CommandText>CREATE LOGIN
[eric]#x0D;#x0A;WITH PASSWORD =
&apos;*****&apos;; #x0D;#x0A;DEFAULT_DATABASE =
[master], #x0D;#x0A;CHECK_EXPIRATION =
OFF, #x0D;#x0A;CHECK_POLICY=OFF#x0D;#x0A;</CommandText></TSQLCommand>
11
12

```





Index_Name	Index_Type	Pages	AvgFragmentation
AK_Person_rowguid		65	0.0000
idxLastNameFirstName		146	0.0000
IX_Person_LastName_FirstName_MiddleName		108	8.3333
PK_Person_BusinessEntityID		3809	0.1838
PK_Person_BusinessEntityID		1	0.0000
PK_Person_BusinessEntityID		1	0.0000
PXML_Person_AddContact		3	0.0000
PXML_Person_Demographics		2152	0.0000
XMLPATH_Person_Demographics		1389	0.9359
XMLPATH_Person_Demographics		1	0.0000
XMLPROPERTY_Person_Demographics		1391	1.0784
XMLPROPERTY_Person_Demographics		1	0.0000
XMLVALUE_Person_Demographics		1389	1.0799
XMLVALUE_Person_Demographics		1	0.0000

Index_Name
Index_ID
Depth
Pages
Rows
MinimumRecordSize
MaximumRecordSize
AverageRecordSize
ForwardedRecords
AveragePageDensity
IndexType
PartitionNumber
GhostRows
VersionGhostRows
AverageFragmentation

Database Mail Configuration Wizard - ROGUE

Manage Existing Account

Choose the account to view, change, or delete.

Account name: DBMail Delete

Description: QUERYWORKS Database Mail

Outgoing mail server (SMTP)

E-mail address: dbmail@queryworks.local

Display name: QUERYWORKS mail

Reply e-mail: dbmail@queryworks.local

Server name: ROGUE Port number: 25

This server requires a secure connection (SSL)

SMTP Authentication

Windows Authentication using Database Engine service credentials

Basic authentication

User name:

Password:

Confirm password:

Anonymous authentication

Help < Back Next > Finish >>| Cancel

Database Mail Configuration Wizard - ROGUE

Manage Existing Account

Choose the account to view, change, or delete.

Account name: DBMail Delete

Description: QUERYWORKS Database Mail

Outgoing mail server (SMTP)

E-mail address: dbmail@queryworks.local

Display name: QUERYWORKS mail

Reply e-mail: dbmail@queryworks.local

Server name: mail.queryworks.local Port number: 25

This server requires a secure connection (SSL)

SMTP Authentication

Windows Authentication using Database Engine service credentials

Basic authentication

User name: dbmail@queryworks.local

Password: *****

Confirm password: *****

Anonymous authentication

Help < Back Next > Finish >>| Cancel



Manage Existing Profile

Select the profile to view, change or delete.



Profile name:

Description:

A profile may be associated with multiple SMTP accounts. If an account fails while sending an e-mail, the profile uses the next account in the priority list. Specify the accounts associated with the profile, and move the accounts to set the failover priority.

SMTP accounts:

Prio...	Account Na...	E-mail Address	<input type="button" value="Add..."/>
			<input type="button" value="Remove"/>
			<input type="button" value="Move Up"/>
			<input type="button" value="Move Down"/>



Manage Profile Security

Specify database users or roles that have access to profiles.



Public Profiles Private Profiles

A public profile can be accessed by all users of any mail-host database.

Select public profiles. You can also specify the default public profile.

Public	Profile Name	Default Profile
<input checked="" type="checkbox"/>	DB Mail Profile	Yes

Show only existing public profiles

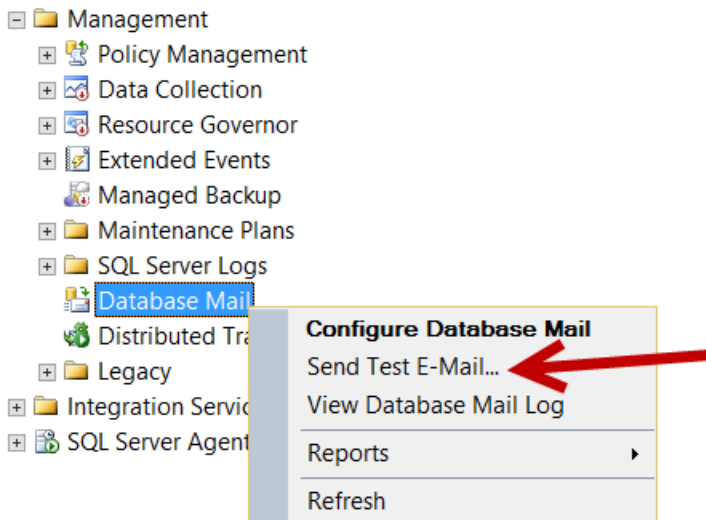
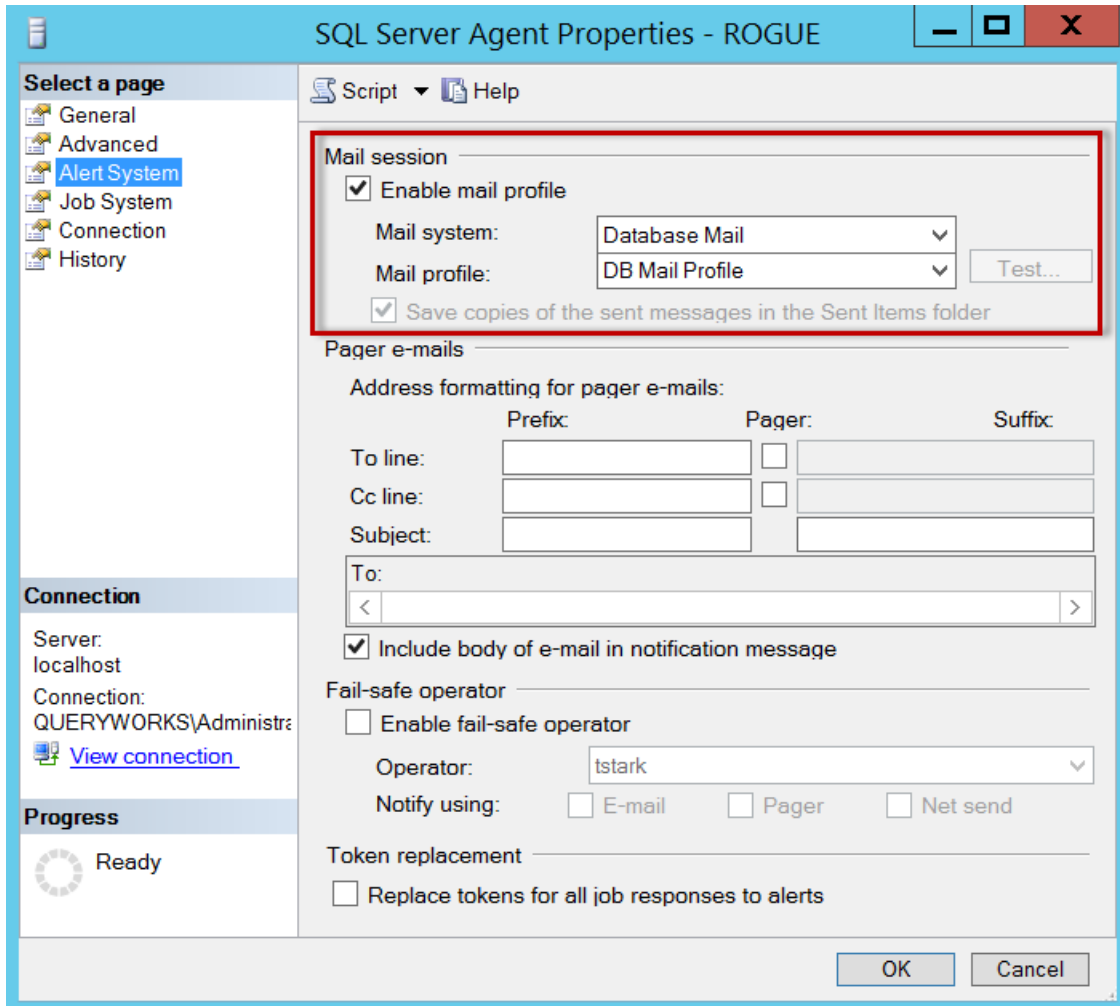
Help

< Back

Next >

Finish >>|

Cancel



dbmail@queryworks.local

Unread Starred Contact Tags Attachment *Filter these messages*

Subject	From	Date
Database Mail Test	QUERYWORKS mail	1:50 PM

From Me☆ Reply Forward

Subject **Database Mail Test**

To Me☆

This is a test e-mail sent from Database Mail on ROGUE.

SQL Server Agent

Jobs

- Agent history clean up: distribution
 - Backup Database
 - Distribution clean up: distribution
 - Expired subscription clean up
 - Export Client Data
 - Reinitialize subscriptions having data validation failures
 - Replication agents checkup
 - Replication monitoring refresher for distribution.
 - ROGUE-Registration-1
 - ROGUE-Registration-Registration-1
 - ROGUE-Registration-Registration-ROGUE\SQL2014-3
 - syspolicy_purge_history
 - Test Job
- Job Activity Monitor

```
Parent : [ROGUE]
Category : [Uncategorized (Local)]
CategoryType : 1
CurrentRunRetryAttempt : 0
CurrentRunStatus : Idle
CurrentRunStep : 0 (unknown)
DateCreated : 10/23/2014 12:32:02 PM
DateLastModified : 10/23/2014 12:35:23 PM
DeleteLevel : Never
Description : No description available.
EmailLevel : Never
EventLogLevel : Never
HasSchedule : True
HasServer : True
HasStep : True
IsEnabled : True
JobID : 5f8cdd39-4072-4da0-8ff4-c8187bf220c2
JobType : Local
LastRunDate : 10/23/2014 12:35:28 PM
LastRunOutcome : Succeeded
NetSendLevel : Never
NextRunDate : 3/1/2015 4:00:00 AM
NextRunScheduleID : 18
OperatorToEmail :
OperatorToNetSend :
OperatorToPage :
OriginatingServer : ROGUE
OwnerLoginName : QUERYWORKS\Administrator
PageLevel : Never
StartStepID : 1
VersionNumber : 4
Name : Backup Database
CategoryID : 0
JobSteps : {Step 1}
JobSchedules : {Every night}
```

- [-] [SQL Server Agent]
- [-] [Jobs]
- [-] [Job Activity Monitor]
- [-] [Alerts]
- [-] [Operators]
- [-] [Proxies]
- [-] [Error Logs]



SQL Server Agent

Jobs

- Agent history clean up: distribution
- Backup Database
- Distribution clean up: distribution
- Expired subscription clean up
- Export Client Data
- Reinitialize subscriptions having data validation failures
- Replication agents checkup
- Replication monitoring refresher for distribution.
- ROGUE-Registration-1
- ROGUE-Registration-Registration-1
- ROGUE-Registration-Registration-ROGUE\SQL2014-3
- syspolicy_purge_history
- Test Job



Job Properties - Test Job

Select a page: General, Steps, Schedules, Alerts, Notifications, Targets

Script Help

Job step list:

St...	Name	Type	On Success	On Failure
1	Test Job Step	Transact-SQL script (T-SQL)	Quit the job ...	Quit the job ...

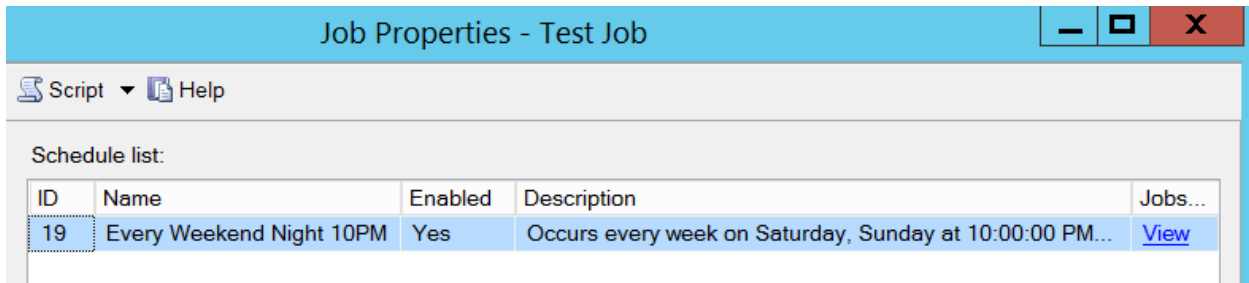
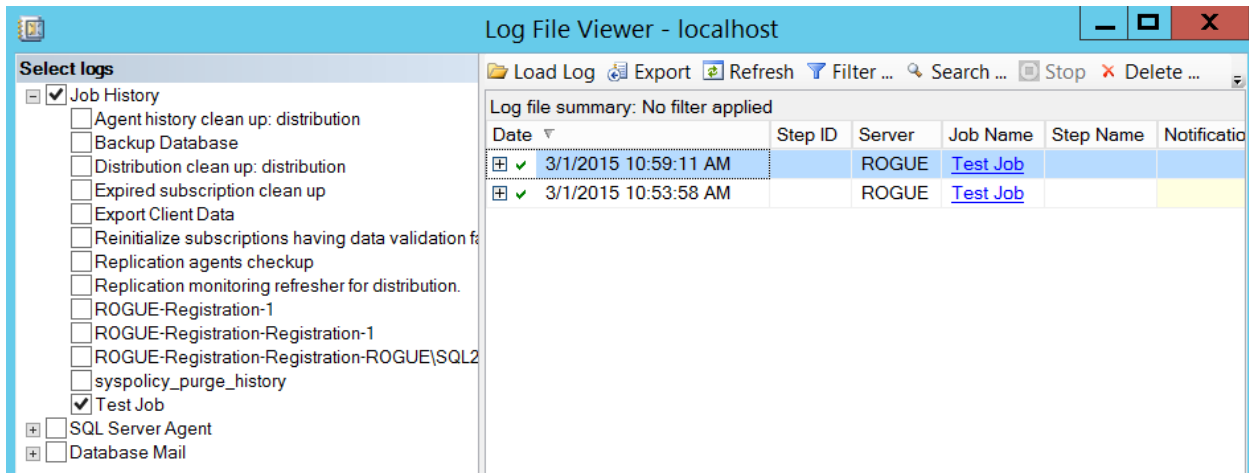
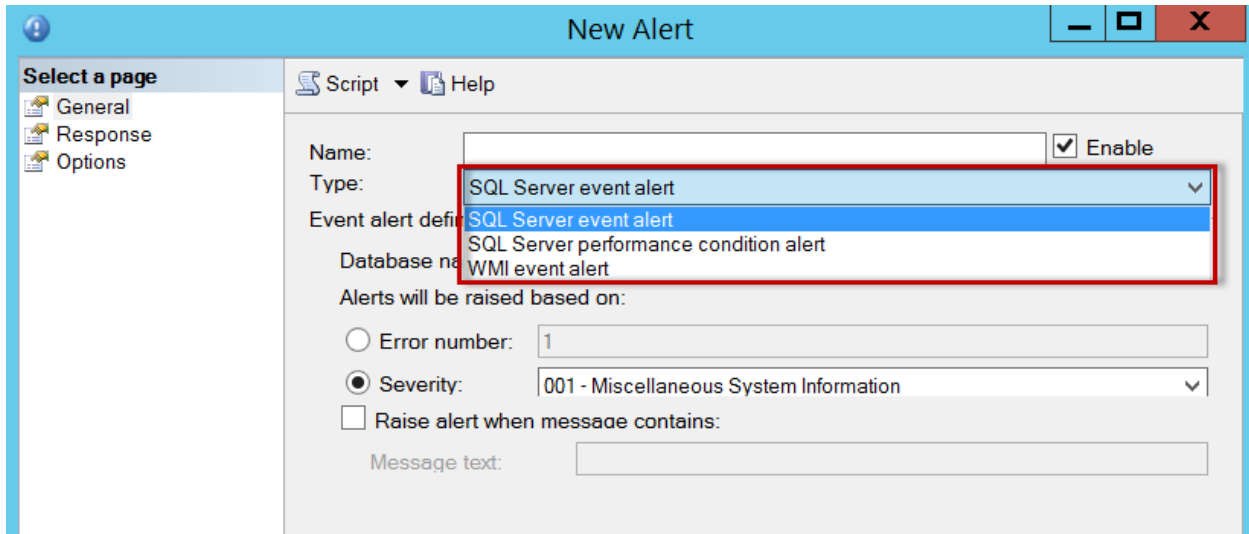
Job Properties - Test Job

Select a page: General, Steps, Schedules, Alerts, Notifications, Targets

Script Help

Actions to perform when the job completes:


- E-mail: When the job fails
- Page: When the job fails
- Net send: When the job fails
- Write to the Windows Application event
- Automatically delete job:



Chapter 4: Security

Name	ServiceAccount	ServiceState
MsDtsServer120	QUERYWORKS\sqlservice	Stopped
MSSQL\$SQL01	NT Service\MSSQL\$SQL01	Running
MSSQLFDLauncher	NT Service\MSSQLFDLauncher	Running
MSSQLFDLauncher\$SQL01	NT Service\MSSQLFDLauncher\$SQL01	Running
MSSQLSERVER	QUERYWORKS\sqlservice	Running
MSSQLServerOLAPService	QUERYWORKS\sqlservice	Running
ReportServer	QUERYWORKS\sqlservice	Running
SQLAgent\$SQL01	NT Service\SQLAgent\$SQL01	Stopped
SQLBrowser	NT AUTHORITY\LOCALSERVICE	Running
SQLSERVERAGENT	QUERYWORKS\sqlservice	Running

Windows PowerShell credentiala... ? X

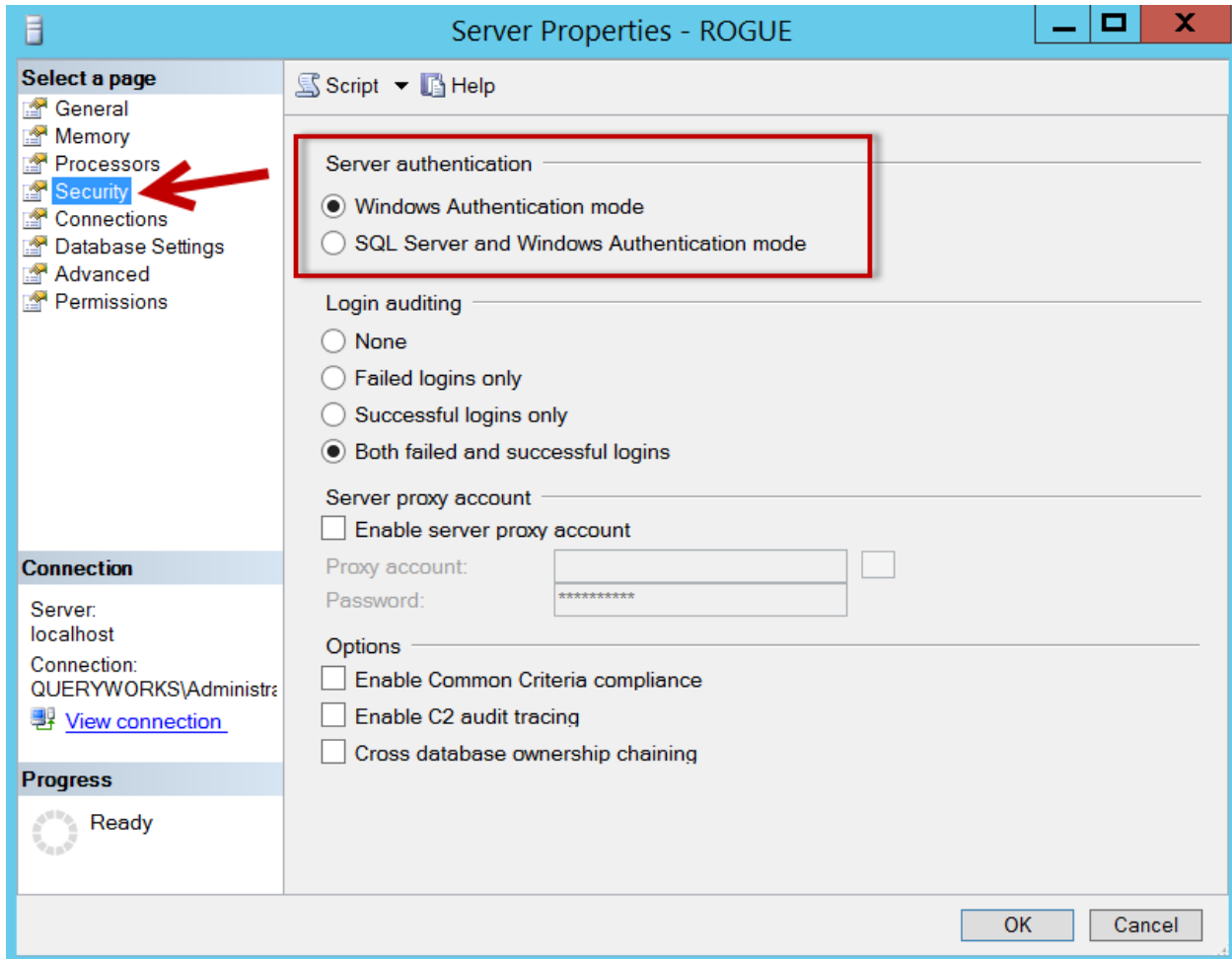


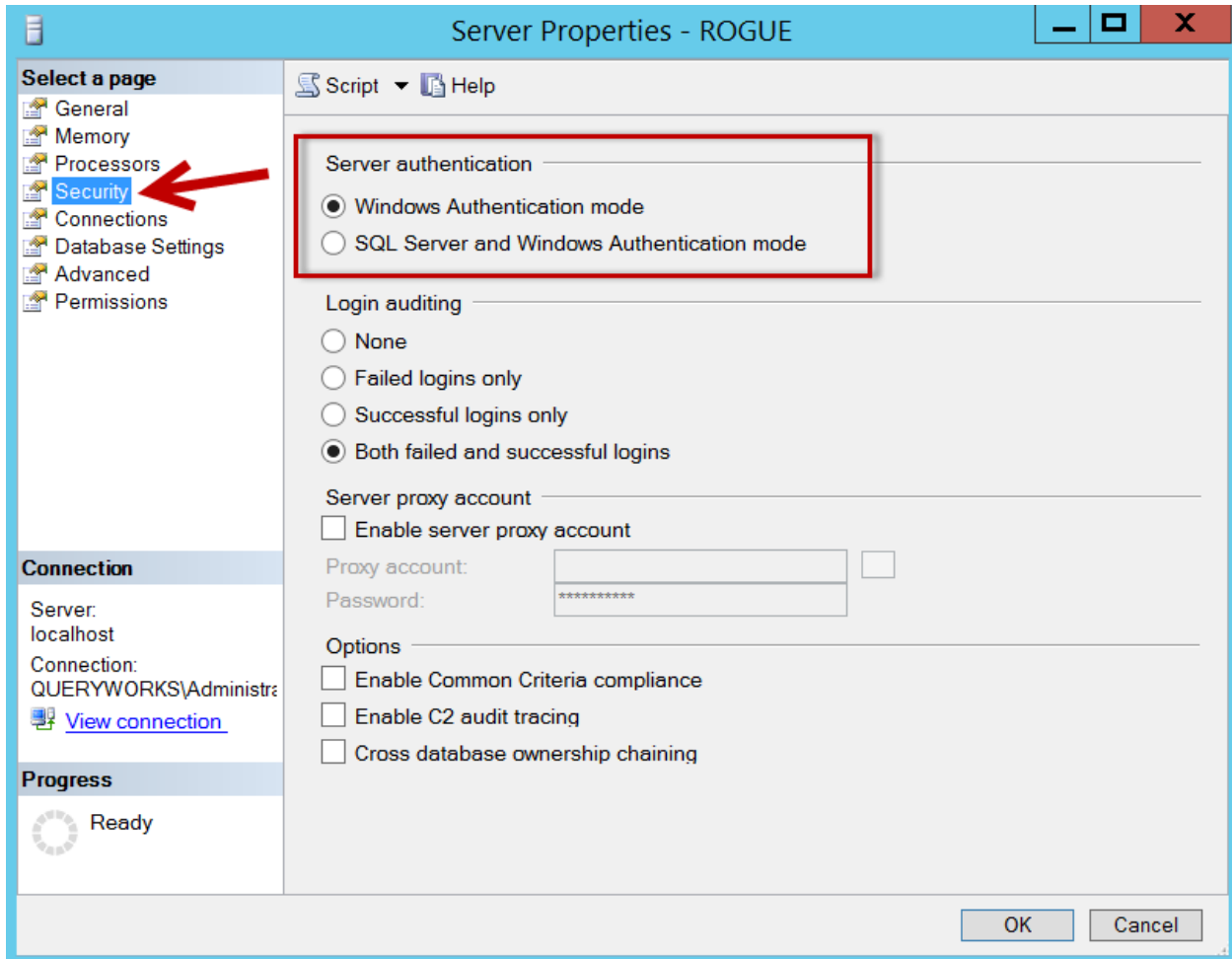
Enter your credentials.

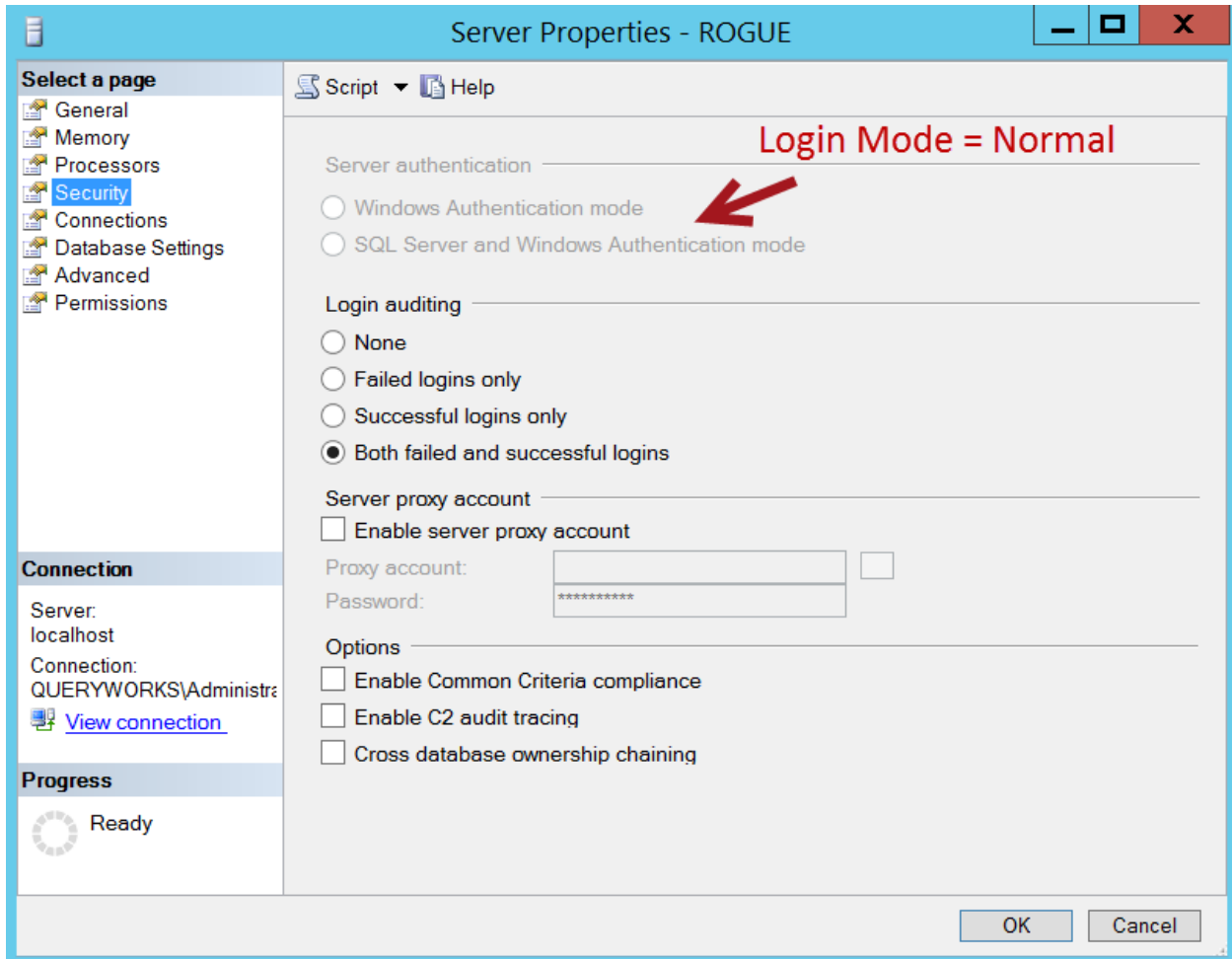
User name: ...

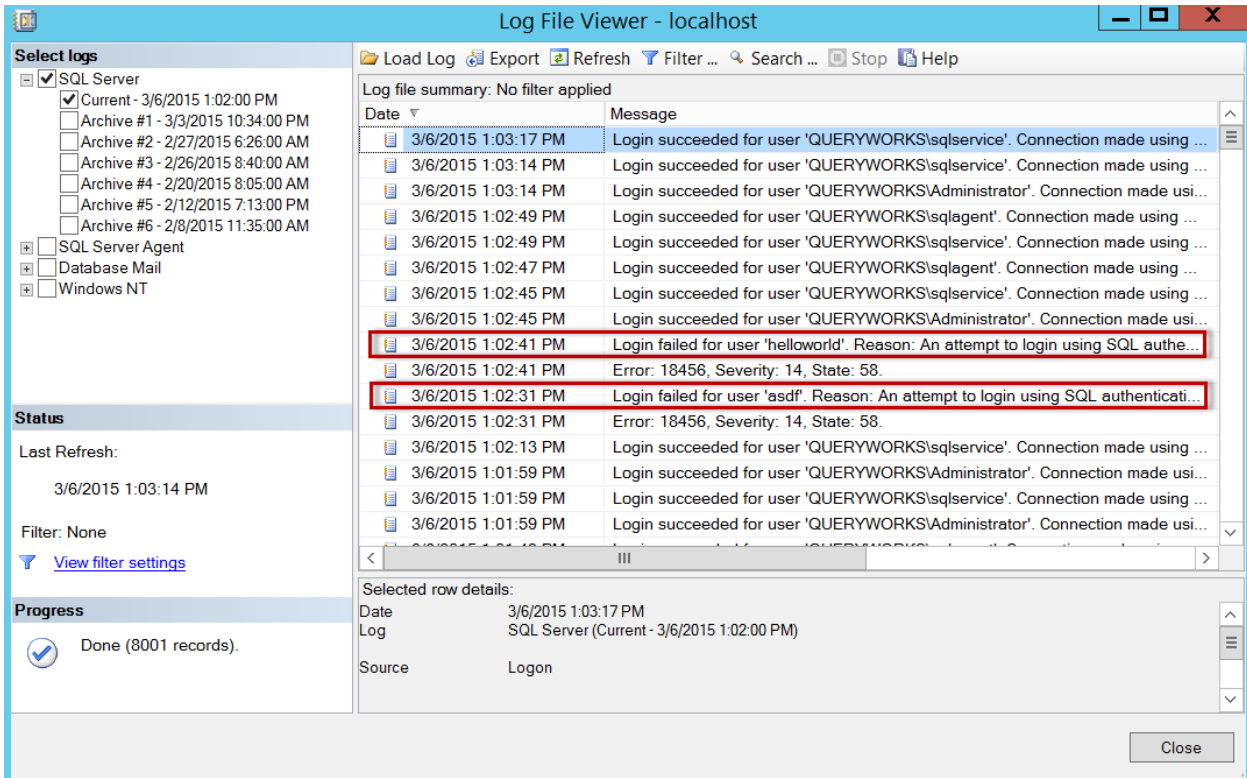
Password:

OK Cancel

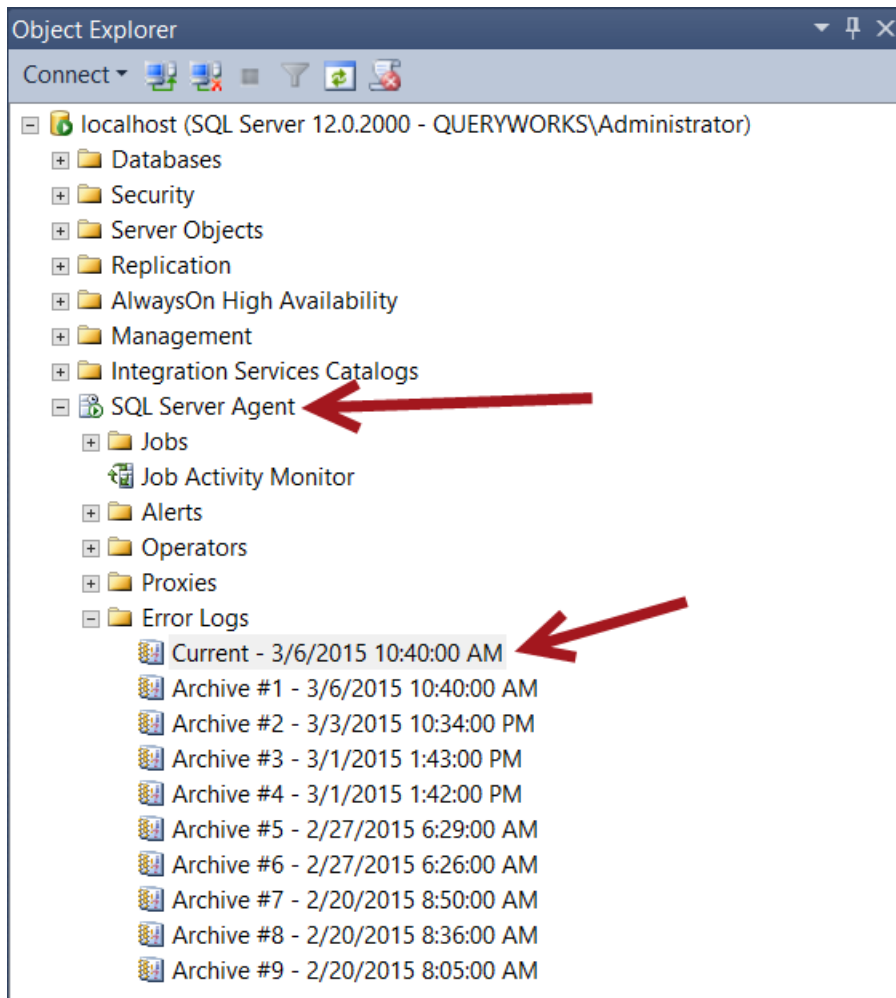








LogDate	ProcessInfo	Text
3/6/2015 1:02:31 PM	Logon	Login failed for user 'asdf'. Reason: An attempt to login
3/6/2015 1:02:41 PM	Logon	Login failed for user 'helloworld'. Reason: An attempt to



Log File Viewer - localhost

Select logs

- SQL Server
 - Current - 3/6/2015 1:02:00 PM
 - Archive #1 - 3/3/2015 10:34:00 PM
 - Archive #2 - 2/27/2015 6:26:00 AM
 - Archive #3 - 2/26/2015 8:40:00 AM
 - Archive #4 - 2/20/2015 8:05:00 AM
 - Archive #5 - 2/12/2015 7:13:00 PM
 - Archive #6 - 2/8/2015 11:35:00 AM
- SQL Server Agent
- Database Mail
- Windows NT

Status

Last Refresh: 3/6/2015 1:03:14 PM

Filter: None

[View filter settings](#)

Progress

Done (8001 records).

Log file summary: No filter applied

Date	Message
3/6/2015 1:03:17 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:03:14 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:03:14 PM	Login succeeded for user 'QUERYWORKS\Administrator'. Connection made using ...
3/6/2015 1:02:49 PM	Login succeeded for user 'QUERYWORKS\sqlagent'. Connection made using ...
3/6/2015 1:02:49 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:02:47 PM	Login succeeded for user 'QUERYWORKS\sqlagent'. Connection made using ...
3/6/2015 1:02:45 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:02:45 PM	Login succeeded for user 'QUERYWORKS\Administrator'. Connection made using ...
3/6/2015 1:02:41 PM	Login failed for user 'helloworld'. Reason: An attempt to login using SQL authen...
3/6/2015 1:02:41 PM	Error: 18456, Severity: 14, State: 58.
3/6/2015 1:02:31 PM	Login failed for user 'asdf'. Reason: An attempt to login using SQL authenticati...
3/6/2015 1:02:31 PM	Error: 18456, Severity: 14, State: 58.
3/6/2015 1:02:13 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:01:59 PM	Login succeeded for user 'QUERYWORKS\Administrator'. Connection made usi...
3/6/2015 1:01:59 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:01:59 PM	Login succeeded for user 'QUERYWORKS\Administrator'. Connection made usi...

Selected row details:

Date: 3/6/2015 1:03:17 PM
 Log: SQL Server (Current - 3/6/2015 1:02:00 PM)
 Source: Logon

Close

Log File Viewer - localhost

Select logs

- SQL Server
 - Current - 3/6/2015 1:02:00 PM
 - Archive #1 - 3/3/2015 10:34:00 PM
 - Archive #2 - 2/27/2015 6:26:00 AM
 - Archive #3 - 2/26/2015 8:40:00 AM
 - Archive #4 - 2/20/2015 8:05:00 AM
 - Archive #5 - 2/12/2015 7:13:00 PM
 - Archive #6 - 2/8/2015 11:35:00 A
- SQL Server Agent
- Database Mail
- Windows NT

Status

Last Refresh: 3/6/2015 1:03:14 PM

Filter: None

[View filter settings](#)

Progress

Done (8001 records).

Log file summary: No filter applied

Date	Message
3/6/2015 1:03:17 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:03:14 PM	Login succeeded for user 'QUERYWORKS\sqlservice'. Connection made using ...
3/6/2015 1:03:14 PM	Login succeeded for user 'QUERYWORKS\Administrator'. Connection made usi...

Filter Settings

Message contains text: **failed**

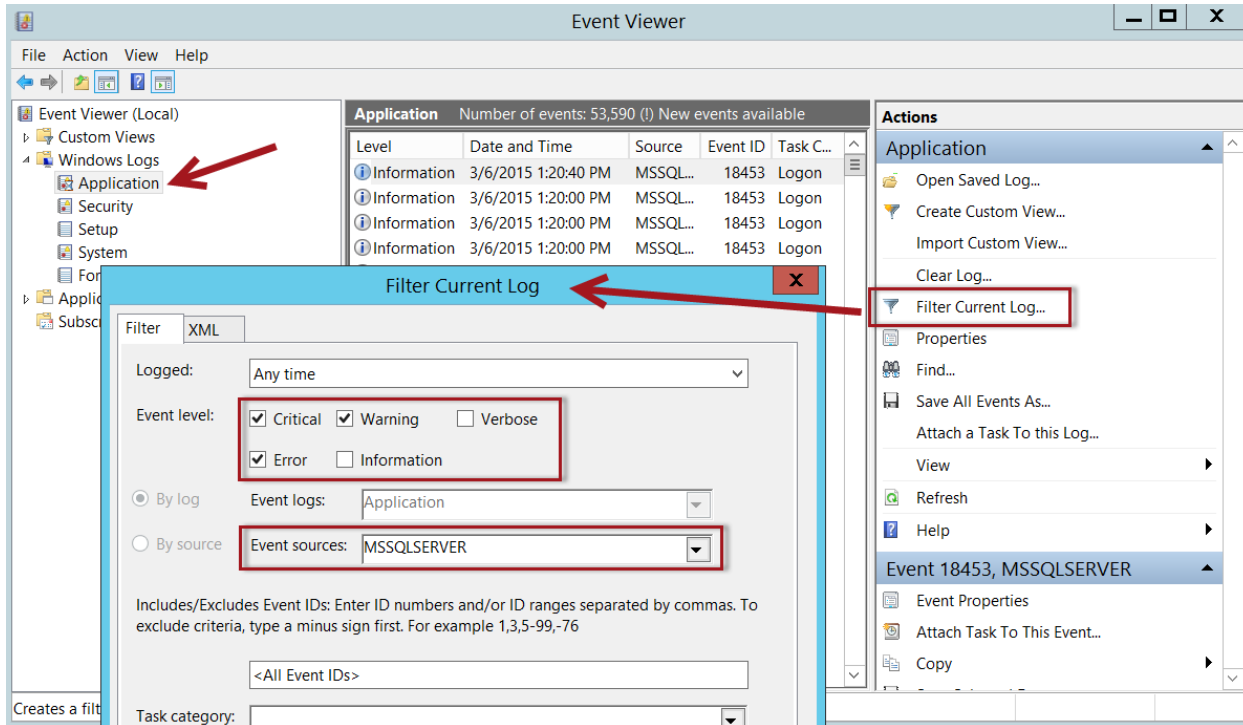
Apply filter

Clear

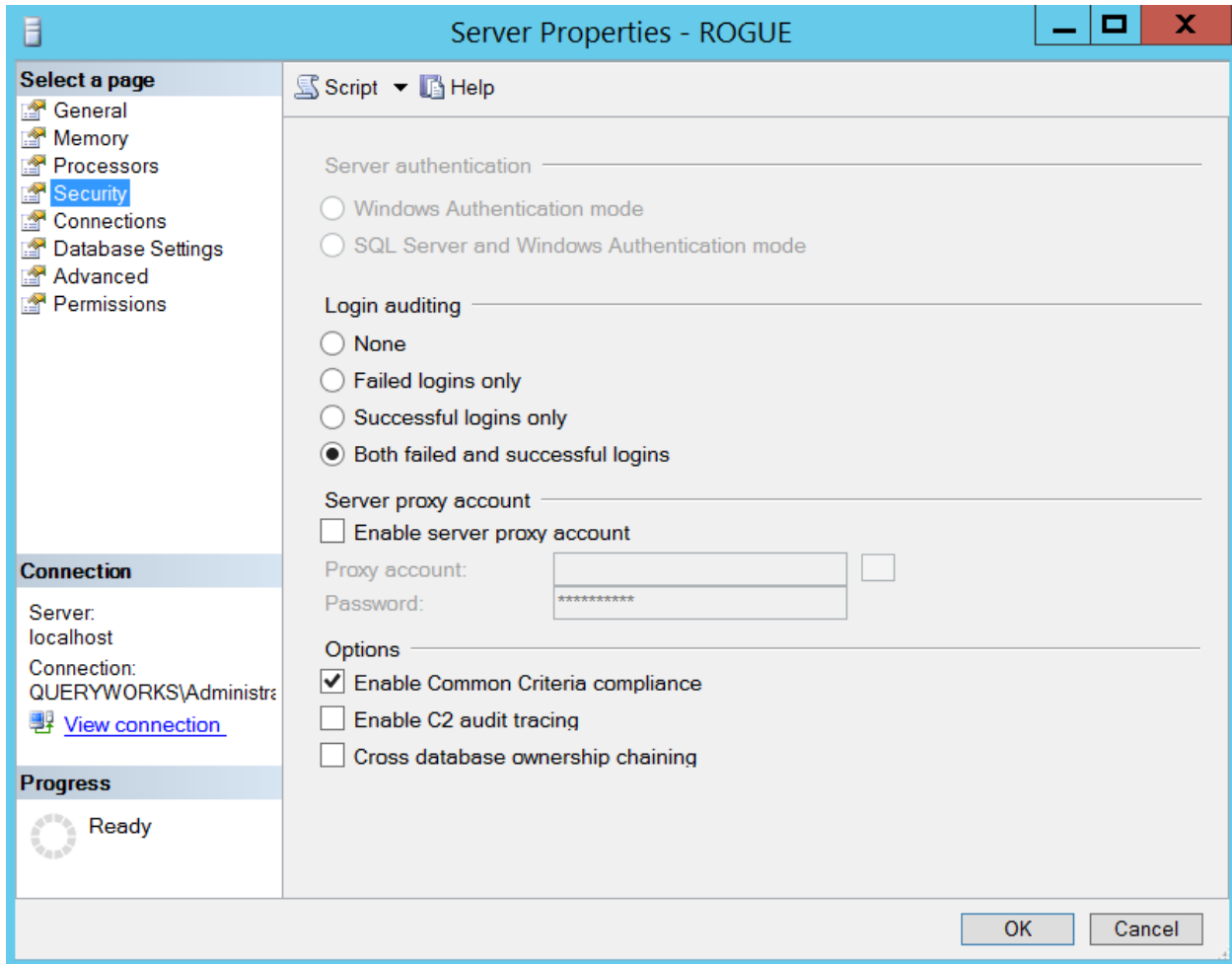
OK Cancel Help

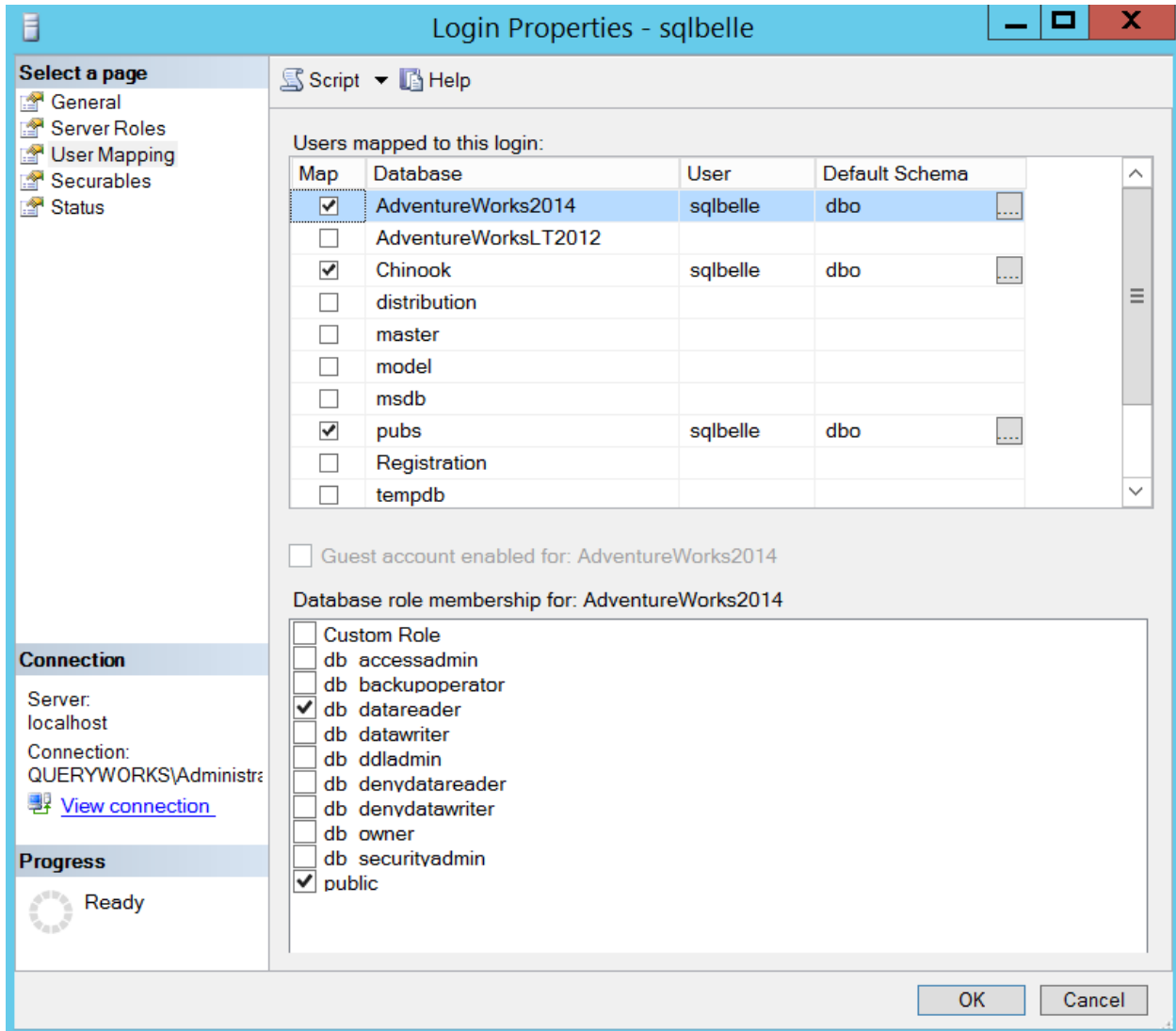
Close

Index	Time	EntryType	Source	InstanceID	Message
209410	Mar 01 11:56	Error	MSSQLSERVER	3221242525	c:\\Temp\\datafile1.ndf:
206745	Feb 28 08:23	Error	MSSQLSERVER	3221226385	could not find database
206702	Feb 28 07:58	Error	MSSQLSERVER	3221226385	could not find database



LogDate	ProcessInfo	Text
3/6/2015 1:02:31 PM	Logon	Login failed for user 'asdf'. Reason: An attempt to login
3/6/2015 1:02:41 PM	Logon	Login failed for user 'helloworld'. Reason: An attempt to





Login	User	DBName	LoginType	UserType
QUERYWORKS\killua	QUERYWORKS\killua	AdventureWorks2014	WindowsUser	SqlLogin
NT AUTHORITY\NETWORK SERVICE	NT AUTHORITY\NETWORK SERVICE	AdventureWorksLT2012	WindowsUser	SqlLogin
QUERYWORKS\gon	QUERYWORKS\gon	AdventureWorksLT2012	WindowsUser	SqlLogin
kurapika	kurapika	Chinook	SqlLogin	SqlLogin
QUERYWORKS\gon	QUERYWORKS\gon	Chinook	WindowsUser	SqlLogin
QUERYWORKS\killua	QUERYWORKS\killua	Chinook	WindowsUser	SqlLogin
sqlbelle	sqlbelle	Chinook	SqlLogin	SqlLogin
##MS_AgentSigningCertificate##	##MS_AgentSigningCertificate##	master	Certificate	Certificate
##MS_PolicyEventProcessingLogin##	##MS_PolicyEventProcessingLogin##	master	SqlLogin	SqlLogin
##MS_PolicyEventProcessingLogin##	##MS_PolicyEventProcessingLogin##	msdb	SqlLogin	SqlLogin
##MS_PolicyTsqlExecutionLogin##	##MS_PolicyTsqlExecutionLogin##	msdb	SqlLogin	SqlLogin
	MS_DataCollectorInternalUser	msdb	SqlLogin	NoLogin
QUERYWORKS\killua	QUERYWORKS\killua	pubs	WindowsUser	SqlLogin
sqlbelle	sqlbelle	pubs	SqlLogin	SqlLogin
	wolverine	pubs	SqlLogin	NoLogin
sqlservice	sqlservice	Registration	SqlLogin	SqlLogin

Name	Login Type	Created
####	-----	-----
##MS_PolicyEventProcessingLogin##	SqlLogin	2/20/2014 8:49 PM
##MS_PolicyTsqlExecutionLogin##	SqlLogin	2/20/2014 8:49 PM
distributor_admin	SqlLogin	10/25/2014 12:21 PM
eric	SqlLogin	2/28/2015 1:12 AM
kurapika	SqlLogin	10/23/2014 6:48 AM
NT AUTHORITY\SYSTEM	WindowsUser	8/21/2014 7:15 PM
NT SERVICE\MSSQLSERVER	WindowsUser	8/21/2014 7:15 PM
NT SERVICE\SQLSERVERAGENT	WindowsUser	8/21/2014 7:15 PM
NT SERVICE\SQLWriter	WindowsUser	8/21/2014 7:15 PM
NT SERVICE\winmgmt	WindowsUser	8/21/2014 7:15 PM
QUERYWORKS\Administrator	WindowsUser	8/21/2014 7:15 PM
QUERYWORKS\gon	WindowsUser	10/20/2014 12:04 PM
QUERYWORKS\killua	WindowsUser	10/20/2014 12:04 PM
QUERYWORKS\sqlagent	WindowsUser	3/6/2015 10:36 AM
QUERYWORKS\srogers	WindowsUser	2/13/2015 10:26 AM
QUERYWORKS\todinson	WindowsUser	2/13/2015 10:27 AM
QUERYWORKS\tstark	WindowsUser	2/13/2015 10:27 AM

```

account name      : QUERYWORKS\Administrator
type              : user
privilege        : admin
mapped login name : QUERYWORKS\Administrator
permission path  :

```

```

account name      : QUERYWORKS\sqlagent
type              : user
privilege        : admin
mapped login name : QUERYWORKS\sqlagent
permission path  :

```

```

account name      : QUERYWORKS\srogers
type              : user
privilege        : admin
mapped login name : QUERYWORKS\srogers
permission path  :

```

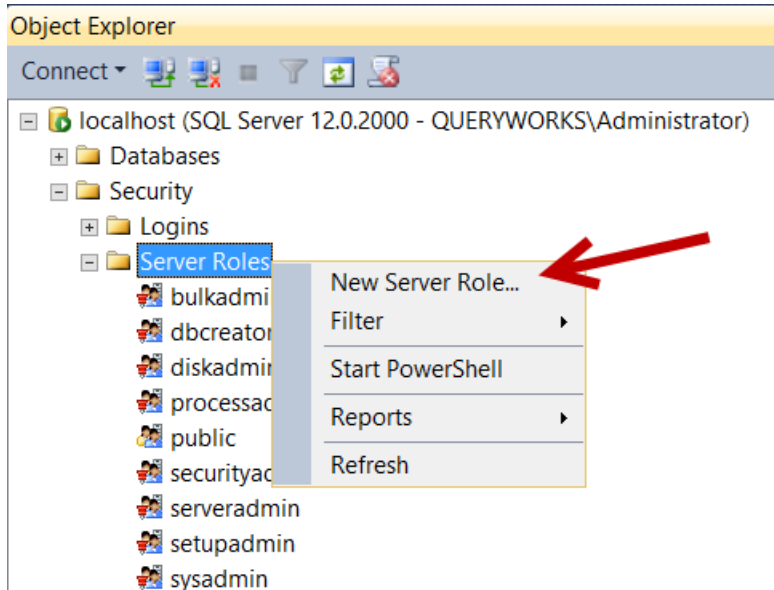
Login	DBUser	DBName	DBRoles	Object	Permission
QUERYWORKS\tstark	QUERYWORKS\tstark	AdventureWorks2014	{db_datawriter}	vEmployee	SELECT
QUERYWORKS\tstark	QUERYWORKS\tstark	AdventureWorks2014	{db_datawriter}	vEmployeeDepartment	SELECT
QUERYWORKS\tstark	QUERYWORKS\tstark	AdventureWorks2014	{db_datawriter}	vEmployeeDepartmentHistory	VIEW DEFINITION
QUERYWORKS\tstark	QUERYWORKS\tstark	AdventureWorks2014	{db_datawriter}	vJobCandidate	VIEW DEFINITION
sqlbelle	sqlbelle	AdventureWorks2014	{db_datareader}	uspGetBillOfMaterials	EXECUTE
sqlbelle	sqlbelle	AdventureWorks2014	{db_datareader}	uspGetEmployeeManagers	VIEW DEFINITION

```
Login      : QUERYWORKS\tstark
DBUser     : QUERYWORKS\tstark
DBName     : AdventureWorks2014
DBRoles    : {db_datawriter}
Object     : vJobCandidate
Permission : VIEW DEFINITION
```

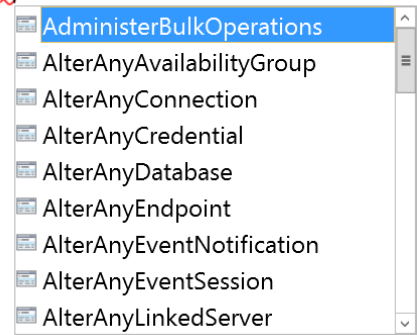
```
Login      : sqlbelle
DBUser     : sqlbelle
DBName     : AdventureWorks2014
DBRoles    : {db_datareader}
Object     : uspGetBillOfMaterials
Permission : EXECUTE
```

```
Login      : sqlbelle
DBUser     : sqlbelle
DBName     : AdventureWorks2014
DBRoles    : {db_datareader}
Object     : uspGetEmployeeManagers
Permission : VIEW DEFINITION
```

Name	Fixed Role	Created	Owner	Modified
impersonator	False	3/7/2015 11:17 PM	QUERYWORKS\Administrator	3/7/2015 11:17 PM
public	False	4/13/2009 12:59 PM	sa	4/13/2009 12:59 PM



[Microsoft.SqlServer.Management.Smo.ServerPermission] : :]



Memberships:
setupadmin
dbcreator

Grantee	PermissionType	PermissionState
eric	ALTER ANY DATABASE	Grant
eric	ALTER SETTINGS	Grant
eric	CONNECT SQL	Grant

PermissionState	PermissionType	Grantee
Grant	ALTER	eric
Grant	CONNECT	eric
Grant	CREATE TABLE	eric

PermissionState	PermissionType	ObjectName	Grantee
Grant	ALTER	AdventureWorks2014	Custom Role
Grant	CREATE TABLE	AdventureWorks2014	Custom Role

Parent : [AdventureWorks2014]
Name : baymax
Login :
LoginType : SqlLogin
UserType : NoLogin

```

Parent      : [AdventureWorks2014]
Name       : baymax
Login      : baymax
LoginType  : SqlLogin
UserType   : SqlLogin

```

Proxy	Credential	Identity	Subsystems
[REPL][QUERYWORKS\Administ...	[REPL][QUERYWORKS\Administ...	QUERYWORKS\Administrator	LogReader
[REPL][QUERYWORKS\Administ...	[REPL][QUERYWORKS\Administ...	QUERYWORKS\Administrator	Snapshot
[REPL][QUERYWORKS\Administ...	[REPL][QUERYWORKS\Administ...	QUERYWORKS\Administrator	Distribution
filemanagerproxy	filemanagercredential	QUERYWORKS\filemanager	CmdExec, PowerShell
sharedfileuser	sharedfileuser	ROGUE\sharedfileuser	CmdExec, SSIS

Chapter 5: Backup and Restore

Database Properties - AdventureWorks2014

Collation: SQL_Latin1_General_CP1_CI_AS

Recovery model: Full

Compatibility level: SQL Server 2014 (120)

Containment type: None

Other options:

Automatic	
Auto Close	False
Auto Create Incremental Statistics	False
Auto Create Statistics	True
Auto Shrink	False
Auto Update Statistics	True
Auto Update Statistics Asynchronously	False

Containment	
Default Fulltext Language LCID	1033
Default Language	English
Nested Triggers Enabled	True
Transform Noise Words	False
Two Digit Year Cutoff	2049

Cursor	
Close Cursor on Commit Enabled	False
Default Cursor	GLOBAL

FILESTREAM	
FILESTREAM Directory Name	
FILESTREAM Non-Transacted Access	Off

Miscellaneous	
Allow Snapshot Isolation	False
ANSI NULL Default	False
ANSI NULLS Enabled	True

Allow Snapshot Isolation

Connection: localhost
 Connection: QUERYWORKS\Administr...
[View connection](#)

Progress: Ready

OK Cancel

Database Properties - AdventureWorks2014

Select a page: General, Files, Filegroups, Options, Change Tracking, Permissions, Extended Properties, Mirroring, Transaction Log Shipping

Script Help

Backup

Last Database Backup	7/17/2014 4:18:22 PM
Last Database Log Backup	None

Database

Name	AdventureWorks2014
Status	Normal
Owner	QUERYWORKS\Administrator
Date Created	9/6/2014 2:01:44 PM
Size	303.25 MB
Space Available	24.27 MB
Number of Users	9
Memory Allocated To Memory Optimized Objects	0.00 MB
Memory Used By Memory Optimized Objects	0.00 MB

Maintenance

Collation	SQL_Latin1_General_CP1_CI_AS
-----------	------------------------------

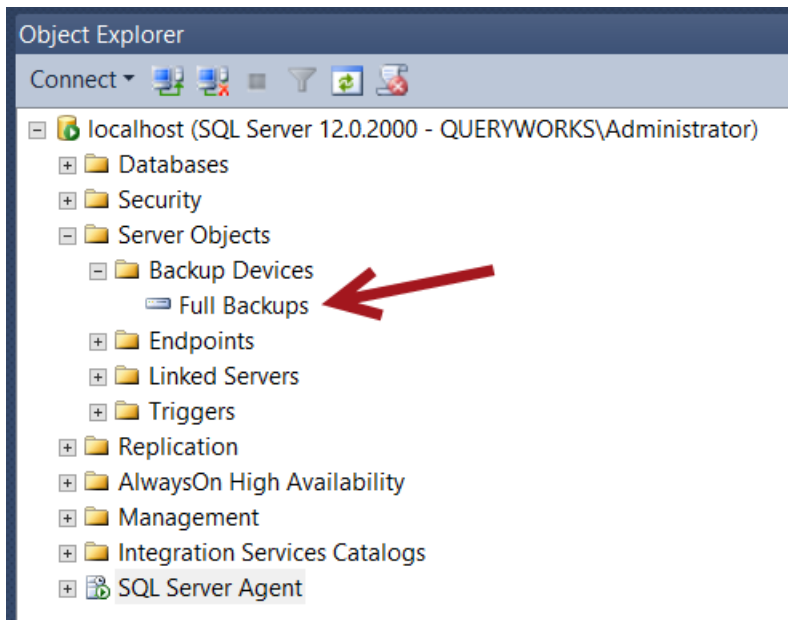
Connection: Server: localhost, Connection: QUERYWORKS\Administrator, View connection

Progress: Ready

Name: The name of the database.

OK Cancel

Name	RecoveryModel	LastBackupDate	LastDifferentialBackupDate	LastLogBackupDate
AdventureWorks2014	Full	7/17/2014 4:18:22 PM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
AdventureWorksLT2012	Simple	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
Chinook	Full	10/24/2014 10:11:11 AM	10/24/2014 10:11:11 AM	10/23/2014 11:58:41 PM
distribution	Simple	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
master	Simple	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
model	Full	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
msdb	Simple	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
pubs	Full	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
Registration	Full	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
tempdb	Simple	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
TestDB	Full	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM
TestDB_copy	Full	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM	1/1/0001 12:00:00 AM



```
BackupName           : AdventureWorks2014-Full Database Backup
BackupDescription    :
BackupType           : 1
ExpirationDate       :
Compressed            : 0
Position             : 1
DeviceType           : 2
Username             : QUERYWORKS\Administrator
ServerName           : ROGUE
DatabaseName         : AdventureWorks2014
DatabaseVersion      : 782
DatabaseCreationDate : 9/6/2014 2:01:44 PM
BackupSize           : 222394368
FirstLSN             : 75000000044700111
LastLSN              : 75000000049400001
CheckpointLSN       : 75000000044700111
DatabaseBackupLSN   : 44000000084000074
BackupStartDate      : 3/14/2015 8:59:24 AM
BackupFinishDate     : 3/14/2015 8:59:35 AM
SortOrder            : 52
CodePage             : 0
UnicodeLocaleId      : 1033
UnicodeComparisonStyle : 196609
CompatibilityLevel    : 120
SoftwareVendorId     : 4608
SoftwareVersionMajor : 12
SoftwareVersionMinor : 0
SoftwareVersionBuild  : 2000
MachineName          : ROGUE
```

```


LogicalName      : AdventureWorks2014_Data
PhysicalName     : C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorks2014_Data.mdf
Type            : D
FileGroupName   : PRIMARY
Size            : 248774656
MaxSize        : 35184372080640
FileId         : 1
CreateLSN      : 0
DropLSN       : 0
UniqueId      : fbf02ee2-5f78-44b2-972f-df53a8fe35ee
ReadOnlyLSN   : 0
ReadWriteLSN  : 0
BackupSizeInBytes : 222167040
SourceBlockSize : 512
FileGroupId    : 1
LogGroupGUID  :
DifferentialBaseLSN : 44000000084000074
DifferentialBaseGUID : 0ac27e09-66d5-4054-b7e5-db56b879912b
IsReadOnly    : False
IsPresent     : True
TDEThumbprint :

LogicalName      : AdventureWorks2014_Log
PhysicalName     : C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\AdventureWorks2014_Log.ldf
Type            : L
FileGroupName   :
Size            : 69206016
MaxSize        : 2199023255552
FileId         : 2
CreateLSN      : 0
DropLSN       : 0
UniqueId      : 1ef63d26-36ae-4d8f-92ae-662d78b25805
ReadOnlyLSN    : 0

```

<

Backing up (Database: 'AdventureWorks2014' ; Server: 'ROGUE' ; Action = 'Database') .
 50% complete.



```

PS SQLSERVER:\> Get-Help Backup-SqlDatabase

NAME
    Backup-SqlDatabase




SYNOPSIS
    The Backup-SqlDatabase cmdlet performs backup operations on a SQL Server database.

SYNTAX
    Backup-SqlDatabase [-Database] <String> [[-BackupFile] <String[]>] [-BackupAction <BackupActionType>] [-BackupContainer <String>]
    [-BackupDevice <BackupDeviceItem[]>] [-BackupSetDescription <String>] [-BackupSetName <String>] [-BlockSize <Int32>] [-BufferCount
    <Int32>] [-Checksum] [-CompressionOption <BackupCompressionOptions>] [-ContinueAfterError] [-CopyOnly] [-DatabaseFile <String[]>]
    [-DatabaseFileGroup <String[]>] [-EncryptionOption <BackupEncryptionOptions>] [-ExpirationDate <DateTime>] [-FormatMedia]
    [-Incremental] [-Initialize] [-LogTruncationType <BackupTruncateLogType>] [-MaxTransferSize <Int32>] [-MediaDescription <String>]
    [-MediaName <String>] [-MirrorDevices <BackupDeviceList[]>] [-NoRecovery] [-NoRewind] [-PassThru] [-Path <String[]>] [-Restart]
    [-RetainDays <Int32>] [-Script] [-SkipTapeHeader] [-SqlCredential <PSObject>] [-UndoFileName <String>] [-UnloadTapeAfter] [-Confirm]
    [-WhatIf] [<CommonParameters>]

    Backup-SqlDatabase [-DatabaseObject] <Database> [[-BackupFile] <String[]>] [-BackupAction <BackupActionType>] [-BackupContainer
    <String>] [-BackupDevice <BackupDeviceItem[]>] [-BackupSetDescription <String>] [-BackupSetName <String>] [-BlockSize <Int32>]
    [-BufferCount <Int32>] [-Checksum] [-CompressionOption <BackupCompressionOptions>] [-ContinueAfterError] [-CopyOnly] [-DatabaseFile
    <String[]>] [-DatabaseFileGroup <String[]>] [-EncryptionOption <BackupEncryptionOptions>] [-ExpirationDate <DateTime>] [-FormatMedia]
    [-Incremental] [-Initialize] [-LogTruncationType <BackupTruncateLogType>] [-MaxTransferSize <Int32>] [-MediaDescription <String>]
    [-MediaName <String>] [-MirrorDevices <BackupDeviceList[]>] [-NoRecovery] [-NoRewind] [-PassThru] [-Restart] [-RetainDays <Int32>]
    [-Script] [-SkipTapeHeader] [-SqlCredential <PSObject>] [-UndoFileName <String>] [-UnloadTapeAfter] [-Confirm] [-WhatIf]
    [<CommonParameters>]

```

-CompressionLevel |

-  Fastest
-  NoCompression
-  Optimal

Object Explorer

Connect

localhost (SQL Server 12.0.2000 - Q)

- Databases
 - System Databases
 - Database Snapshots
 - AdventureWorks2014
 - AdventureWorksLT2012
 - Chinook
 - pubs
 - Registration
 - SampleDB**
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - dbo.Record**
 - Views

SQLQuery2.sql - loc...Administrator (53)*

```

1 SELECT
2     [RecordID],
3     [Record],
4     [DateInserted]
5 FROM
6     [SampleDB].[dbo].[Record]
  
```

100 %

Results Messages

	RecordID	Record	DateInserted
1	1	Full 201503261830	2015-03-26 18:30:38.633
2	2	Log 201503261831	2015-03-26 18:31:38.947
3	3	Differential 201503261832	2015-03-26 18:32:39.040
4	4	Log 201503261833	2015-03-26 18:33:39.223
5	5	Log 201503261834	2015-03-26 18:34:39.317

Local Disk (C:) > BACKUP

Name	Date modified	Type
SampleDB_Differential_201503261832.bak	3/26/2015 6:32 PM	BAK File
SampleDB_Full_201503261830.bak	3/26/2015 6:30 PM	BAK File
SampleDB_Log_201503261831.bak	3/26/2015 6:31 PM	BAK File
SampleDB_Log_201503261833.bak	3/26/2015 6:33 PM	BAK File
SampleDB_Log_201503261834.bak	3/26/2015 6:34 PM	BAK File

```

LogicalName      : SampleDB
PhysicalName     : C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER\MSSQL\DATA\SampleDB.mdf
Type             : D
FileGroupName    : PRIMARY
Size             : 3342336
MaxSize          : 35184372080640
FileId           : 1
CreateLSN        : 0
DropLSN          : 0
UniqueId         : 767dbf31-c17e-4dce-88ba-2745b8d1c83e
ReadOnlyLSN      : 0
ReadWriteLSN     : 0
BackupSizeInBytes : 2424832
SourceBlockSize  : 512
FileGroupId      : 1
LogGroupGUID     :
DifferentialBaseLSN : 0
DifferentialBaseGUID : 00000000-0000-0000-0000-000000000000
IsReadOnly       : False
IsPresent        : True
TDEThumbprint    :
  
```

- StudentDB
 - + Database Diagrams
 - Tables
 - + System Tables
 - + FileTables
 - + dbo.Student_FG1
 - + dbo.Student_FG2
 - + dbo.Student_PRIMARY
 - + dbo.Student_TXN

- + StudentDB
- StudentDB_Restored
 - + Database Diagrams
 - Tables
 - + System Tables
 - + FileTables
 - + dbo.Student_FG1
 - + dbo.Student_FG2
 - + dbo.Student_PRIMARY
 - + dbo.Student_TXN

Microsoft Azure
CREDIT STATUS

-
-
-
-
-
-
-
-
-
-

←

sqlbelle

Your storage account has been created!

Here are a few options to help you get started.

Skip Quick Start the next time I visit

Get the tools ?

[Storage Explorers](#) [Install the Windows Azure SDK](#)

Get started ?

[Storage Overview](#)

[Learn how to: Create a Blob, Create a Table, Create a Queue](#)

[Learn about: Windows Azure Storage Architecture, Storage Abstractions and Scalability](#)

[Additional Learning Resources](#)

Microsoft Azure | CREDIT STATUS

sqlbelle

DASHBOARD MONITOR CONFIGURE **CONTAINERS** IMPORT/EXPORT

NAME	URL	LAST MODIFIED
databases	https://sqlbelle.blob.core.windows.net/data...	3/29/2015 11:06:02 AM

2 OPERATIONS HAVE COMPLETED DISMISS COMPLETED X

- Created blob container 'databases'. OK
- Storage account 'sqlbelle' created successfully. OK

+ NEW ADD EDIT DELETE

Microsoft Azure | CREDIT STATUS

storage

NAME	STATUS	LOCATION	SUBSCRIPTION
sqlbelle	Online	North Europe	Visual Studio Ultimate with MSD...

+ NEW MANAGE ACCESS KEYS MANAGE DOMAIN DELETE

Chapter 6: Advanced Administration

Connect to Server

Microsoft SQL Server 2014

Server type: Database Engine

Server name: (localdb)\MSSQLLocalDB

Authentication: Windows Authentication

User name: QUERYWORKS\Administrator

Password:

Remember password

Connect Cancel Help Options >>

SQL Server (SQL01) Properties

AlwaysOn High Availability	Startup Parameters	Advanced
Log On	Service	FILESTREAM

Enable FILESTREAM for Transact-SQL access

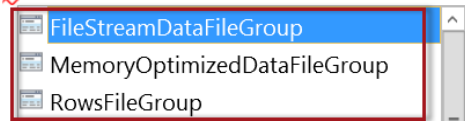
Enable FILESTREAM for file I/O access

Windows share name: SQL01

Allow remote clients access to FILESTREAM data

OK Cancel Apply Help

[Microsoft.SqlServer.Management.Smo.FileGroupType]::



- FilestreamDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - dbo.MyFiles
 - Columns
 - stream_id (uniqueidentifier, not null)
 - file_stream (varbinary(max), null)
 - name (nvarchar(255), not null)
 - path_locator (PK, hierarchyid, not null)
 - parent_path_locator (FK, Computed, hierarchyid, null)
 - file_type (Computed, nvarchar(255), null)
 - cached_file_size (Computed, bigint, null)
 - creation_time (datetimeoffset(7), not null)
 - last_write_time (datetimeoffset(7), not null)
 - last_access_time (datetimeoffset(7), null)
 - is_directory (bit, not null)
 - is_offline (bit, not null)
 - is_hidden (bit, not null)
 - is_readonly (bit, not null)
 - is_archive (bit, not null)
 - is_system (bit, not null)
 - is_temporary (bit, not null)

localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)

- Databases
 - System Databases
 - Database Snapshots
 - AdventureWorks2014
 - AdventureWorksLT2012
 - Chinook
 - FilestreamDB
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - dbo.MyFiles
 - Columns
 - Keys
 - Constraints
 - Triggers
 - Statistics

- New File Table...
- Explore FileTable Directory
- Select Top 1000 Rows
- Script Table as
- View Dependencies



Network > ROGUE > mssqlserver > FileTable > MyFiles

Name	Date modified	Type
------	---------------	------

This folder is empty.

```

Parent : [master]
ActiveForServiceBrokerDialog : False
ExpirationDate : 4/10/2017 12:00:00 AM
ID : 261
Issuer : This is a test certificate.
LastBackupDate : 1/1/0001 12:00:00 AM
Owner : dbo
PrivateKeyEncryptionType : Password
Serial : 1a 55 d9 87 97 fe 8a 96 4f cd 6d 09 f6 b7 1e bb
Sid : {1, 6, 0, 0...}
StartDate : 4/10/2015 12:00:00 AM
Subject : This is a test certificate.
Thumbprint : {119, 109, 104, 211...}
Events : Microsoft.SqlServer.Management.Smo.CertificateEvents
Name : Test certificate
Urn : Server[@Name='ROGUE']/Database[@Name='master']/Certificate[@Name='Test certificate']
Properties : {Name=ActiveForServiceBrokerDialog/Type=System.Boolean/writable=True/value=False,
Name=ExpirationDate/Type=System.DateTime/writable=True/value=04/10/2017 00:00:00,
Name=ID/Type=System.Int32/writable=False/value=261,
Name=Issuer/Type=System.String/writable=False/value=This is a test certificate....}
UserData :
State : Existing
IsDesignMode : False

```

```

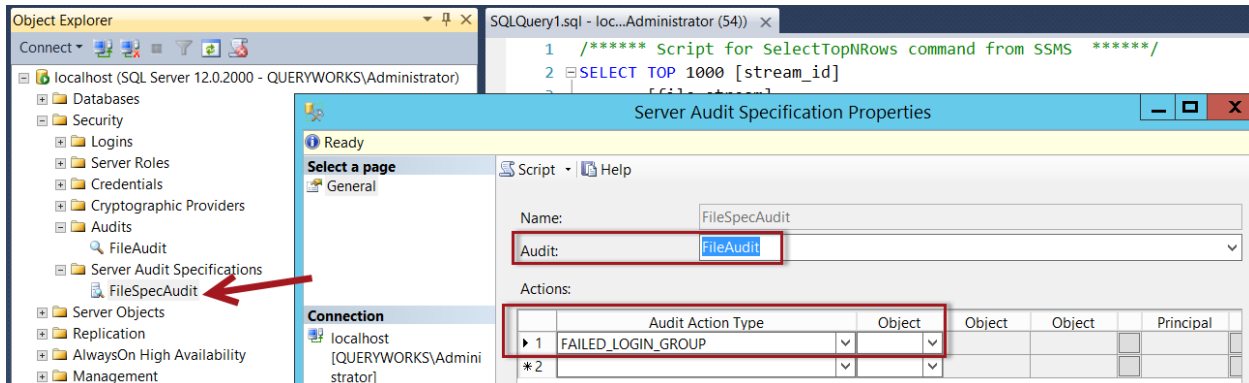
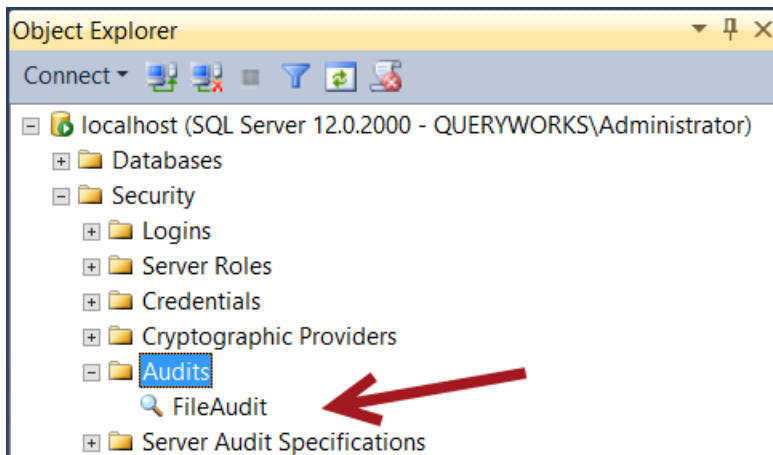
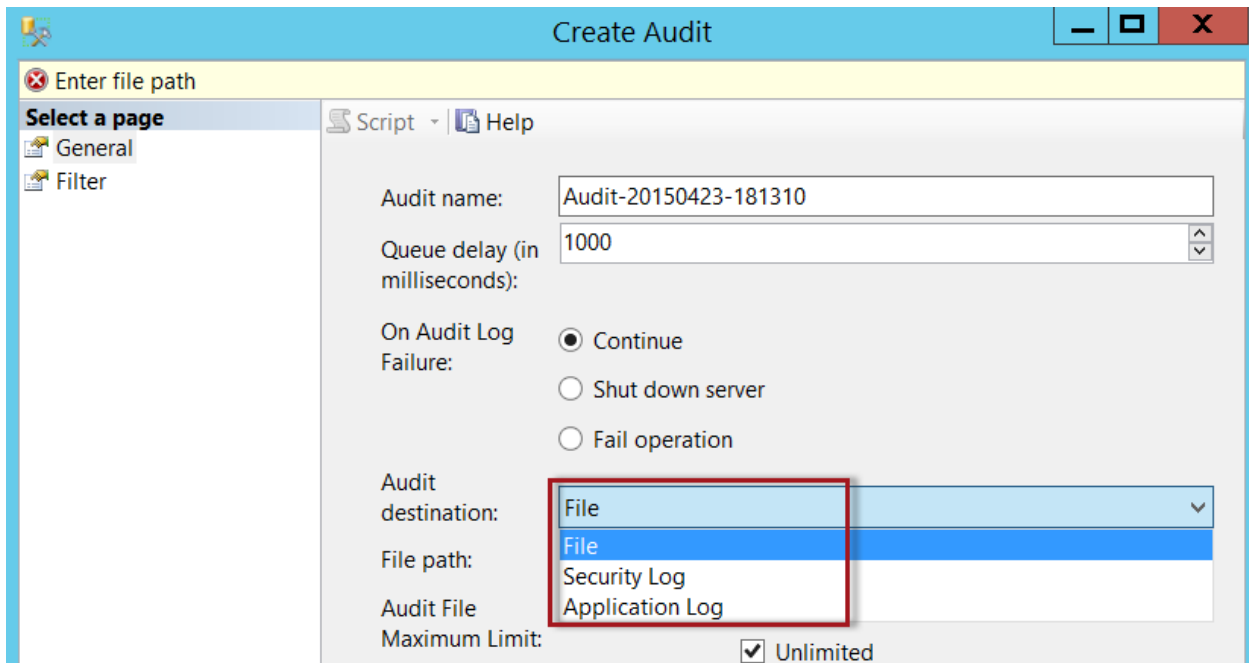
CreateDate : 4/16/2015 11:41:07 PM
DateLastModified : 4/16/2015 11:41:07 PM
IsEncryptedByServer : True
IsOpen : False
Parent : [TestDB]
Urn : Server[@Name='ROGUE']/Database[@Name='TestDB']/MasterKey
Properties : {Name=CreateDate/Type=System.DateTime/writable=False/value=04/16/2015 23:41:07,
Name=DateLastModified/Type=System.DateTime/writable=False/value=04/16/2015 23:41:07,
Name=IsEncryptedByServer/Type=System.Boolean/writable=False/value=True,
Name=IsOpen/Type=System.Boolean/writable=False/value=False}
UserData :
State : Existing
IsDesignMode : False

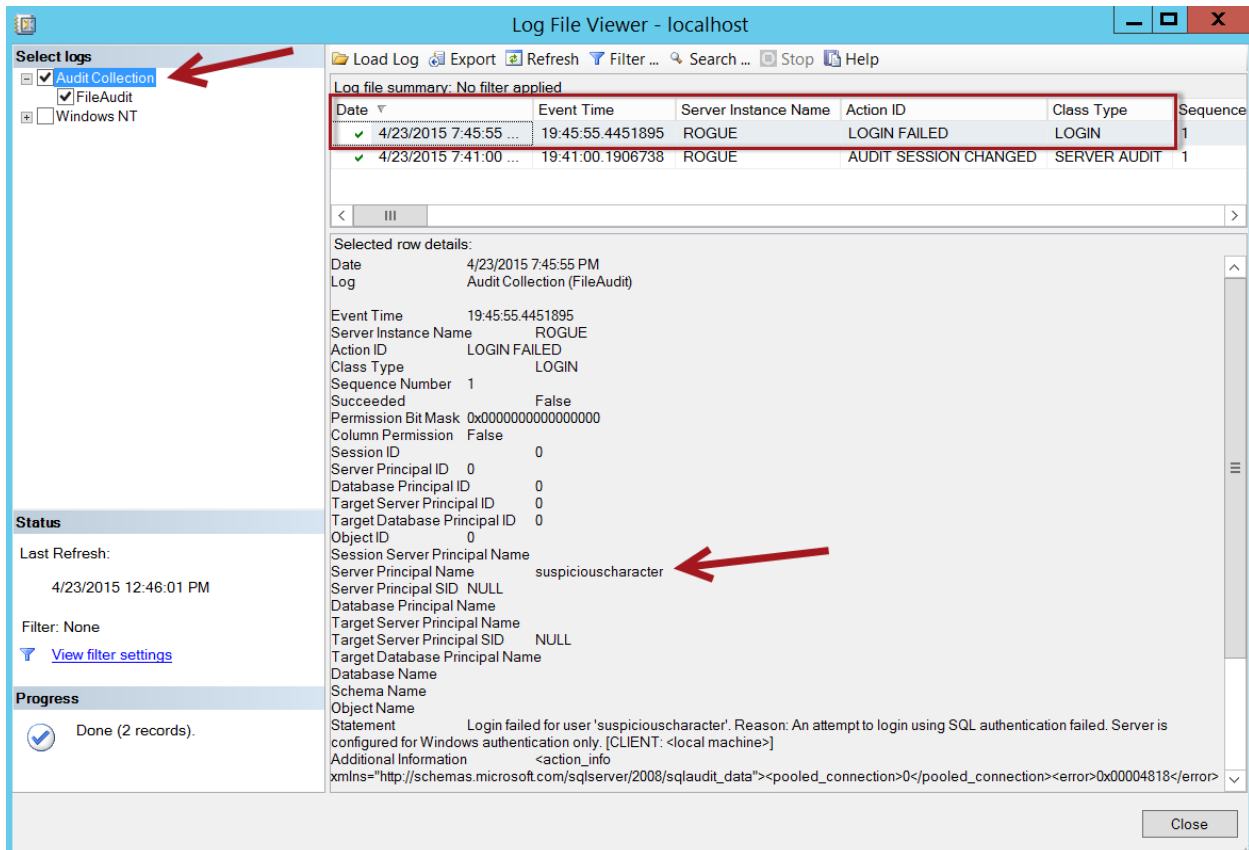
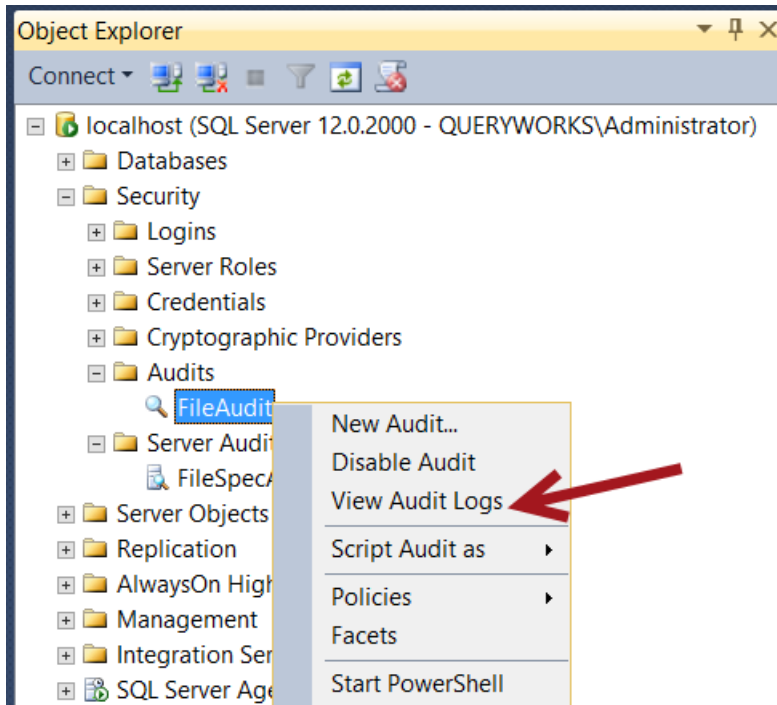
Encryption
Name : EncryptionAsymmetricKey
Name : EncryptionsymmetricKey

```

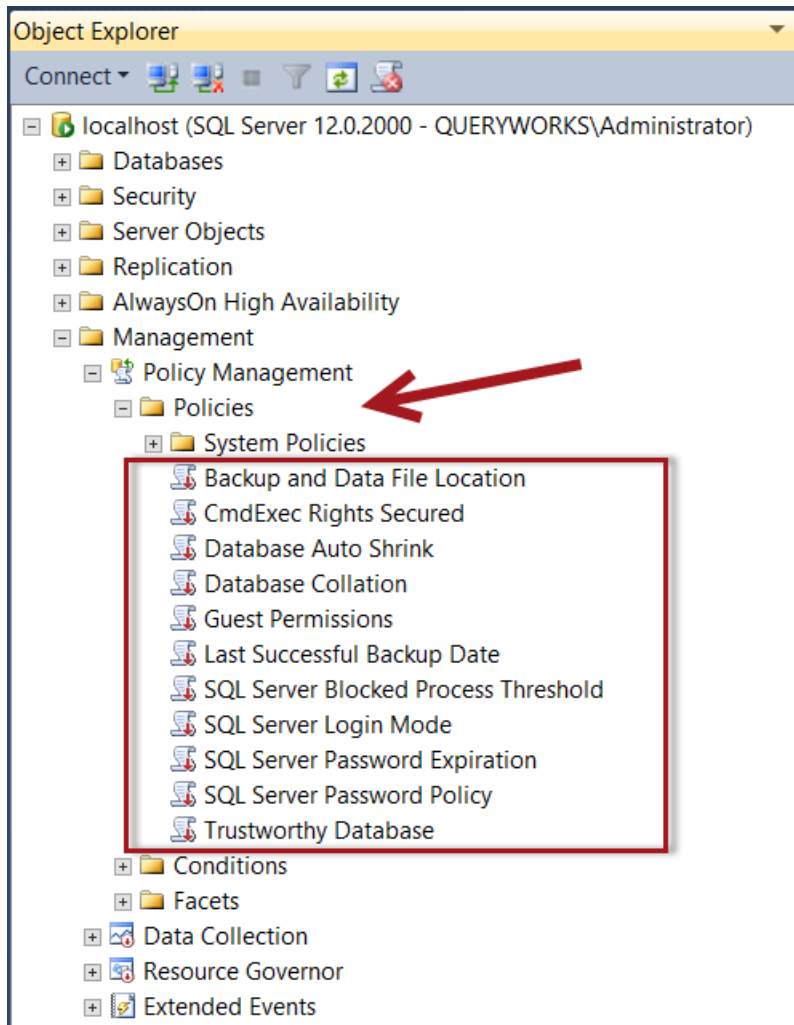
	name	is_encrypted	encryption_state	percent_complete	key_algorithm	key_length
1	AdventureWorks2014	0	NULL	NULL	NULL	NULL
2	AdventureWorksLT2012	0	NULL	NULL	NULL	NULL
3	Chinook	0	NULL	NULL	NULL	NULL
4	distribution	0	NULL	NULL	NULL	NULL
5	FileTableDB	0	NULL	NULL	NULL	NULL
6	FullTextCatalogDB	0	NULL	NULL	NULL	NULL
7	master	0	NULL	NULL	NULL	NULL
8	model	0	NULL	NULL	NULL	NULL
9	msdb	0	NULL	NULL	NULL	NULL
10	pubs	0	NULL	NULL	NULL	NULL
11	Registration	0	NULL	NULL	NULL	NULL
12	SnapshotDB	0	NULL	NULL	NULL	NULL
13	SnapshotDB_SS	0	NULL	NULL	NULL	NULL
14	tempdb	0	3	0	AES	256
15	TestDB	1	3	0	AES	256

Chapter 7: Audit and Policies





Name	PropertyName	PropertyType
ApplicationRole	CreateDate	System.DateTime
ApplicationRole	DateLastModified	System.DateTime
ApplicationRole	ID	System.Int32
ApplicationRole	DefaultSchema	System.String
ApplicationRole	Name	System.String
AsymmetricKey	ID	System.Int32
AsymmetricKey	KeyEncryptionAlgorithm	Microsoft.SqlServer.Management
AsymmetricKey	KeyLength	System.Int32
AsymmetricKey	Owner	System.String
AsymmetricKey	PrivateKeyEncryptionType	Microsoft.SqlServer.Management
AsymmetricKey	PublicKey	System.Byte[]
AsymmetricKey	Sid	System.Byte[]
AsymmetricKey	Thumbprint	System.Byte[]
AsymmetricKey	ProviderName	System.String
AsymmetricKey	Name	System.String
Audit	CreateDate	System.DateTime
Audit	DateLastModified	System.DateTime
Audit	DestinationType	Microsoft.SqlServer.Management
Audit	Enabled	System.Boolean
Audit	FileName	System.String
Audit	FilePath	System.String
Audit	Guid	System.Guid
Audit	ID	System.Int32
Audit	MaximumFileSize	System.Int32
Audit	MaximumFileSizeUnit	Microsoft.SqlServer.Management
Audit	MaximumRolloverFiles	System.Int64



```

Name       : CmdExec Rights Secured
CreateDate : 10/25/2014 9:14:45 PM
Condition  : CmdExec Rights for sysadmins only
ObjectSet  : CmdExec Rights Secured_ObjectSet
Enabled    : False

Name       : Database Auto Shrink
CreateDate : 10/25/2014 9:14:45 PM
Condition  : Auto Shrink Disabled
ObjectSet  : Database Auto Shrink_ObjectSet
Enabled    : False

Name       : Database Collation
CreateDate : 10/25/2014 9:14:45 PM
Condition  : Collation Matches master or model
ObjectSet  : Database Collation_ObjectSet
Enabled    : False

Name       : Guest Permissions
CreateDate : 10/25/2014 9:14:45 PM
Condition  : Has No Database Access
ObjectSet  : Guest Permissions_ObjectSet
Enabled    : False

Name       : Last Successful Backup Date
CreateDate : 10/25/2014 9:14:45 PM
Condition  : Safe Last Backup Date
ObjectSet  : Last Successful Backup Date_ObjectSet
Enabled    : False

```

Create New Condition - Password Expiry Condition

Ready

Select a page

- General
- Description

Script Help

Name: Password Expiry Condition

Facet: Login Options

Expression:

AndOr	Field	Opera	Value
▶	@PasswordExpirationEnabled	=	True
*	Click here to add a clause		

Ready

Create New Policy - Password Expiry

Script Help

Select a page

- General
- Description

Name: Password Expiry

Enabled

Check condition: Password Expiration Enabled

Against targets: Every Login

Connection

- localhost [QUERYWORKS\Administrator]

[View connection properties](#)

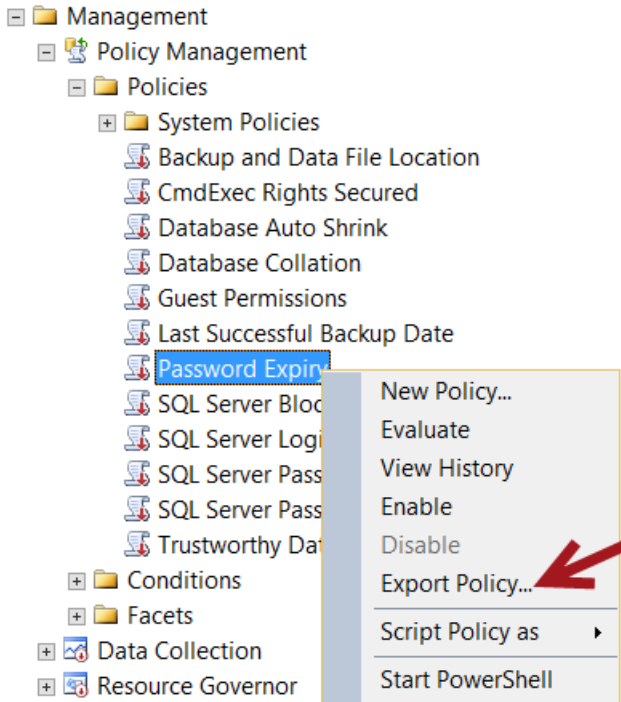
Progress

Ready

Evaluation Mode: On demand

Server restriction: None

OK Cancel Help



```
Name : xp_cmdshell is disabled
Facet : IServerSecurityFacet
ExpressionNode : @XPcmdshellEnabled = False()
```

- [-] Management
 - [-] Policy Management
 - [+] Policies
 - [-] Conditions
 - [+] System Conditions
 - Auto Shrink Disabled
 - Blocked Process Threshold Optimized
 - CmdExec Rights for sysadmins Only
 - Collation Matches master or model
 - Data and Backup on Separate Drive
 - Database Owner Not sysadmin
 - Enterprise or Standard Edition
 - Guest
 - Has No Database Access
 - Online User Database
 - Password Expiration Enabled
 - Password Policy Enforced
 - Safe Last Backup Date
 - SQL Server 2005 or a Later Version
 - SQL Server Authenticated Logins
 - SQL Server Version 2000
 - Trustworthy
 - User or Model
 - Windows Authentication Mode
 - xp_cmdshell is disabled



Open Condition - xp_cmdshell is disabled

Ready

Select a page

- General
- Description
- Dependent Policies

Script | Help

Name: xp_cmdshell is disabled

Facet: Server Security

Expression:

	AndOr	Field	Operator	Value
▶		@XPcmdShellEnabled	=	False
*	Click here to add a clause			

=====

Evaluation Histories

=====

ID	Policy Name	Result	Start Date	End Date	Messages
9	xp_cmdshell must be disabled	False	4/12/2015 7:34 PM	4/12/2015 7:34 PM	
10	xp_cmdshell must be disabled	False	4/12/2015 7:34 PM	4/12/2015 7:34 PM	
11	xp_cmdshell must be disabled	False	4/12/2015 7:35 PM	4/12/2015 7:35 PM	
12	xp_cmdshell must be disabled	False	4/12/2015 7:36 PM	4/12/2015 7:36 PM	
13	xp_cmdshell must be disabled	False	4/12/2015 7:36 PM	4/12/2015 7:36 PM	
14	xp_cmdshell must be disabled	False	4/12/2015 7:36 PM	4/12/2015 7:36 PM	

=====

Invocation Result

=====

1	xp_cmdshell must be disabled	False	4/12/2015 7:36 PM	4/12/2015 7:36 PM	
---	------------------------------	-------	-------------------	-------------------	--

```
StartTime      : 04/16/2015 22:17:20
CPU            :
Reads         :
EventClass    : ExistingConnection
Duration      :
NTUserName    : Administrator
SPID          : 51
Writes        :
TextData      : -- network protocol: LPC
               set quoted_identifier on
               set arithabort off
               set numeric_roundabort off
               set ansi_warnings on
               set ansi_padding on
               set ansi_nulls on
               set concat_null_yields_null on
               set cursor_close_on_commit off
               set implicit_transactions off
               set language us_english
               set dateformat mdy
               set datefirst 7
               set transaction isolation level read committed

EndTime       :
ApplicationName : SQL Server Profiler - 27a6f38a-d0bc-49fd-b806-3f4570642be5
LoginName      : QUERYWORKS\Administrator
ClientProcessID : 3632
```

```

$hashtable = $null;
$hashtable = @{
"EventClass"="SQL:BatchStarting"
"TextData"=" set quoted_identifier off "
"ApplicationName"="SQLAgent - Job Manager"
"NTUserName"="sqlagent"
"LoginName"="QUERYWORKS\sqlagent"
"CPU"=""
"Reads"=""
"Writes"=""
"Duration"=""
"ClientProcessID"="3032"
"SPID"="63"
"StartTime"="09/20/2015 10:32:55"
"EndTime"=""
}

```

```

StartTime      : 04/16/2015 22:35:16
CPU            : 16
Reads          : 64
EventClass     : SQL:BatchCompleted
Duration       : 11084
NTUserName     : Administrator
SPID           : 55
Writes         : 0
TextData       : SELECT
                  SCHEMA_NAME(tt.schema_id) AS [Schema],
                  tt.name AS [Name]
                  FROM
                  sys.table_types AS tt
                  INNER JOIN sys.schemas AS stt ON stt.schema_id = tt.schema_id
                  ORDER BY
                  [Schema] ASC,[Name] ASC
EndTime        : 04/16/2015 22:35:16
ApplicationName : Microsoft SQL Server Management Studio - Transact-SQL IntelliSense
LoginName      : QUERYWORKS\Administrator
ClientProcessID : 4624

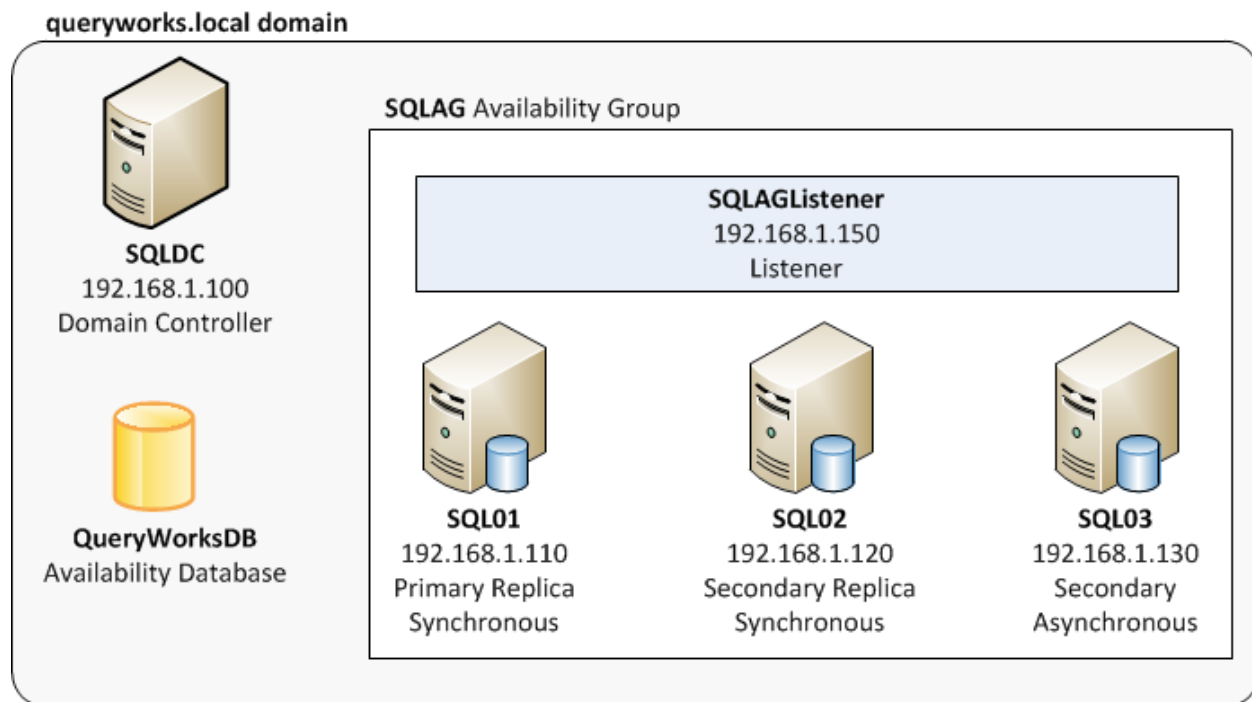
```

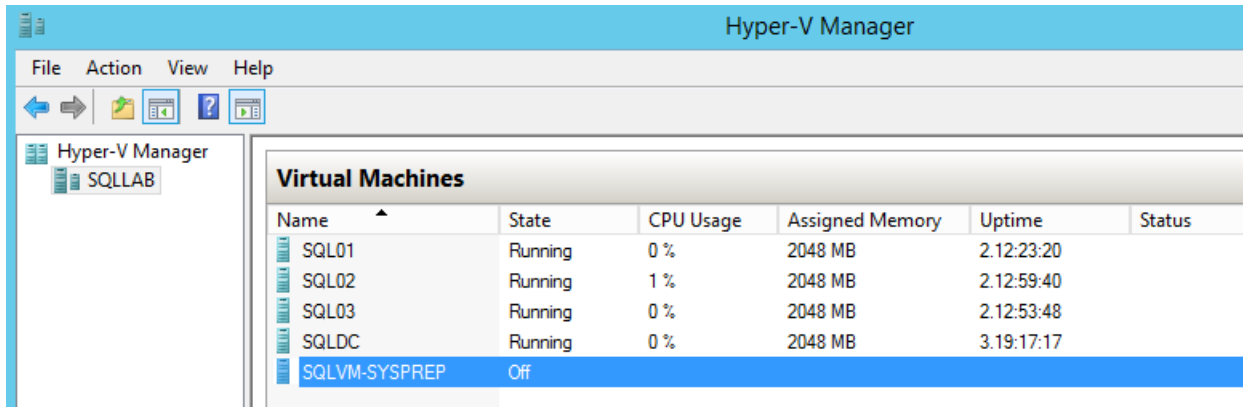
```

$hashtable = $null;
$hashtable = @{
"EventClass"="SQL:BatchStarting"
"TextData"=" set quoted_identifier off "
"ApplicationName"="SQLAgent - Job Manager"
"NTUserName"="sqlagent"
"LoginName"="QUERYWORKS\sqlagent"
"CPU"=""
"Reads"=""
"Writes"=""
"Duration"=""
"ClientProcessID"="3032"
"SPID"="63"
"StartTime"="09/20/2015 10:32:55"
"EndTime"=""
}

```

Chapter 8: High Availability with AlwaysOn



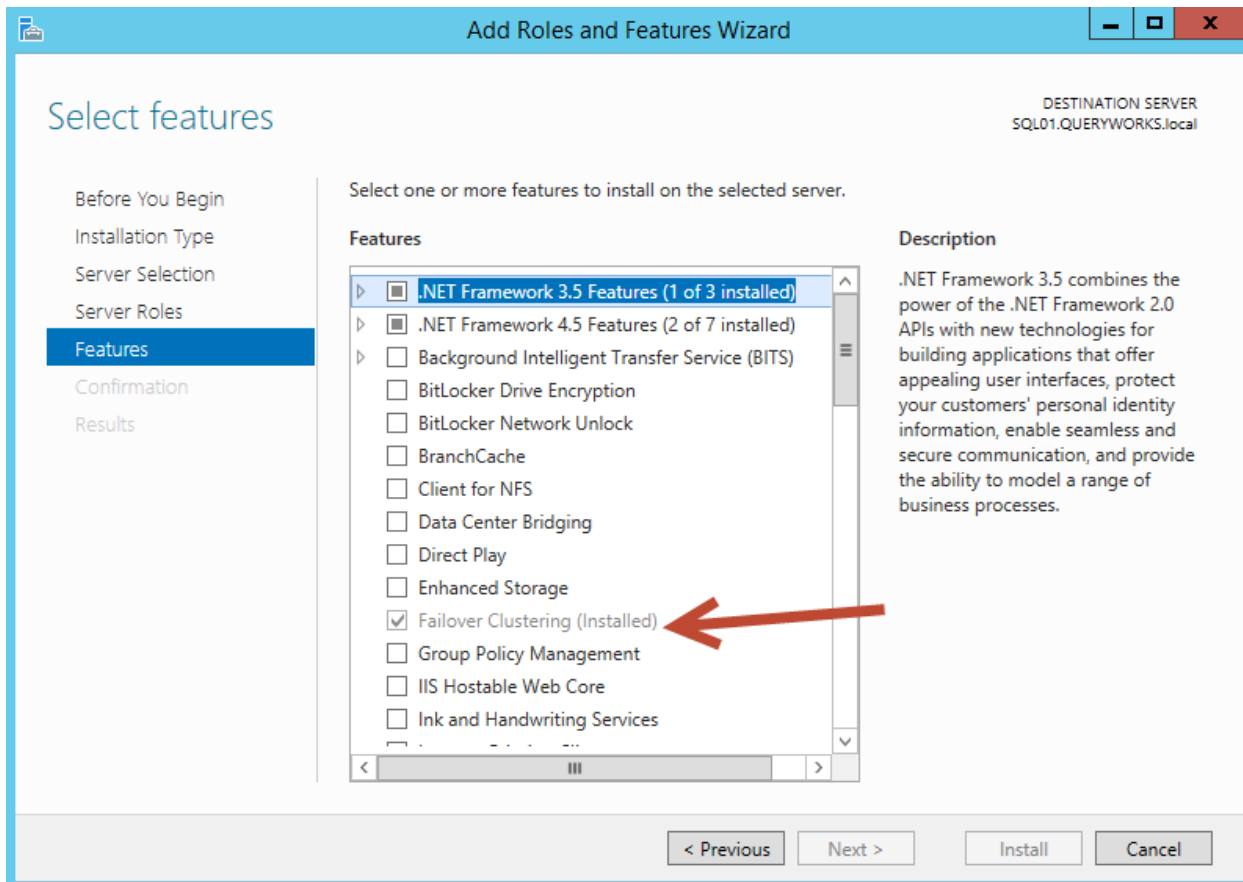


```
PS SQLSERVER:\> C:\Users\Administrator.QUERYWORKS\Documents\Check Failover Cluster.ps1
```

```

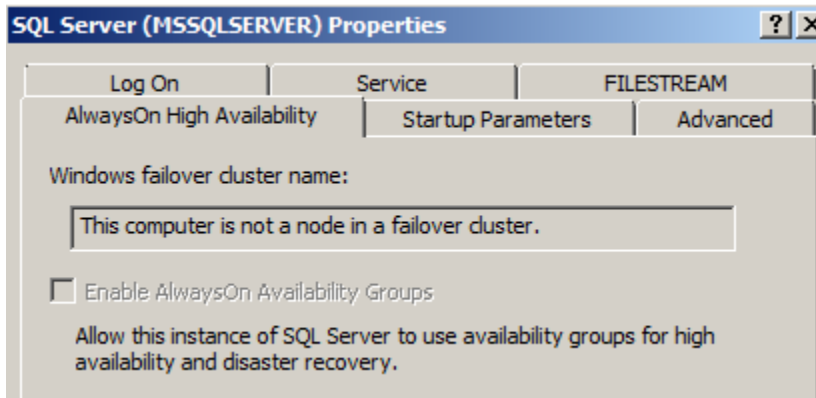
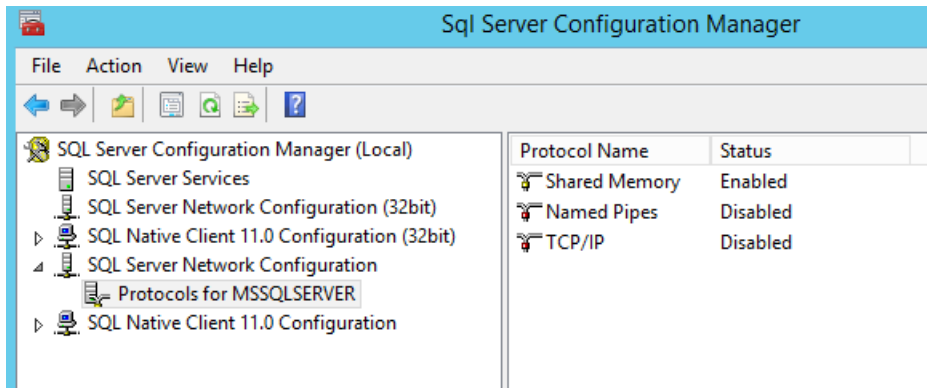
Display Name          Name          Install State
-----
[X] Failover Clustering Failover-Clustering    Installed

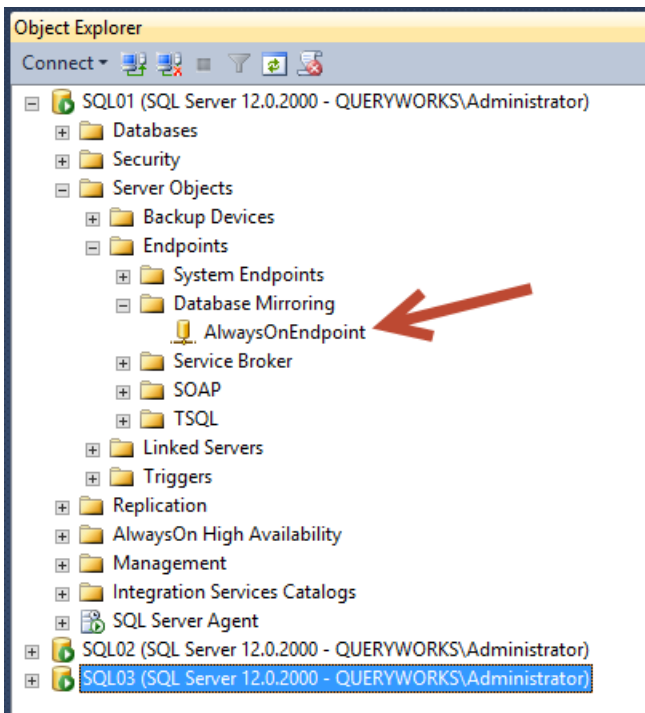
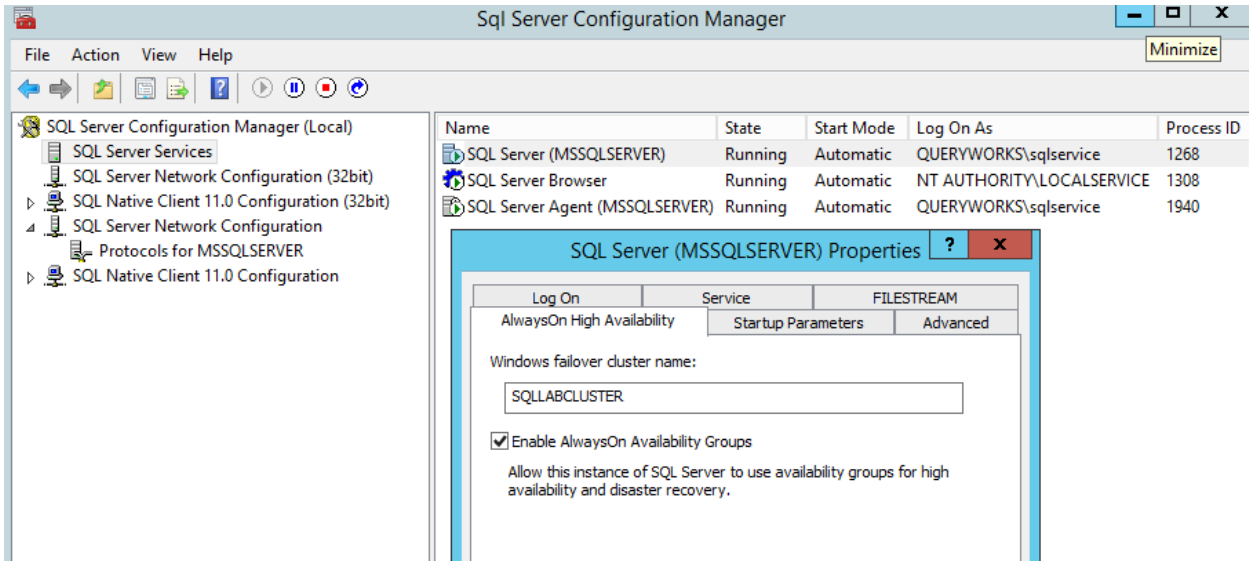
```



```
PS SQLSERVER:\> Get-ClusterNode
```

Name	ID	State
SQL01	2	Up
SQL02	1	Up
SQL03	3	Up

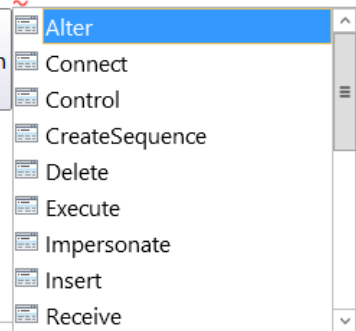


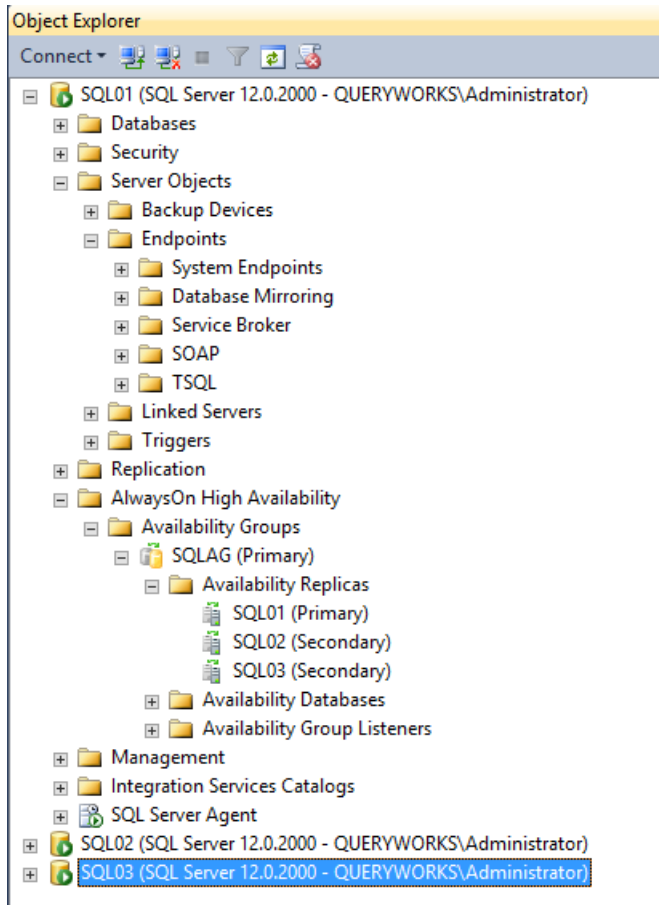
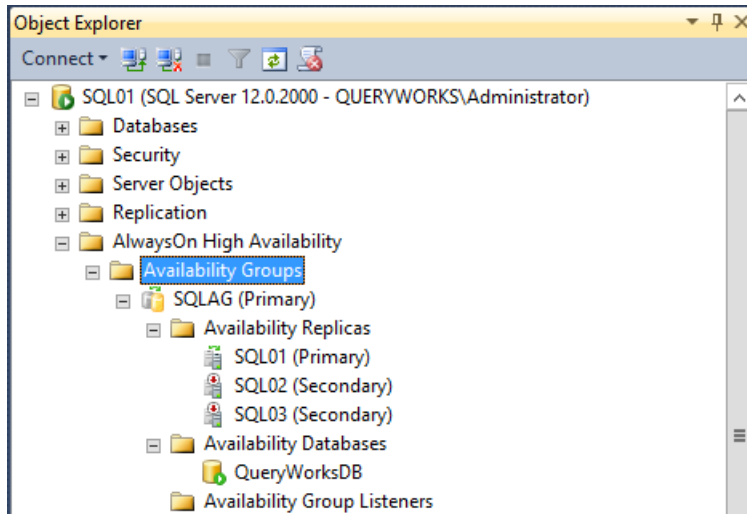


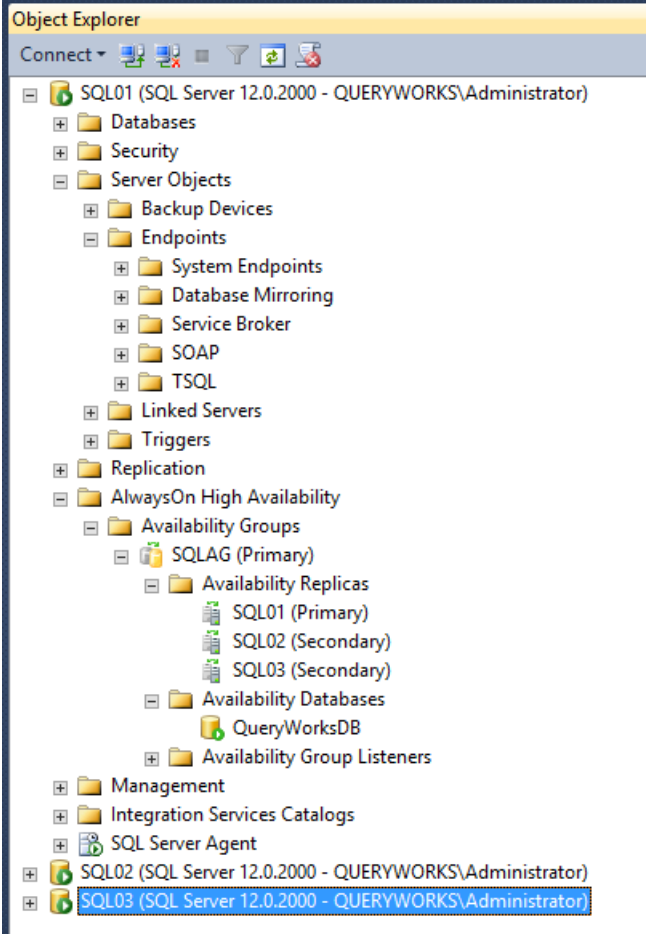
17
18
19
20
21
22
23
24
25
26
27
28
29

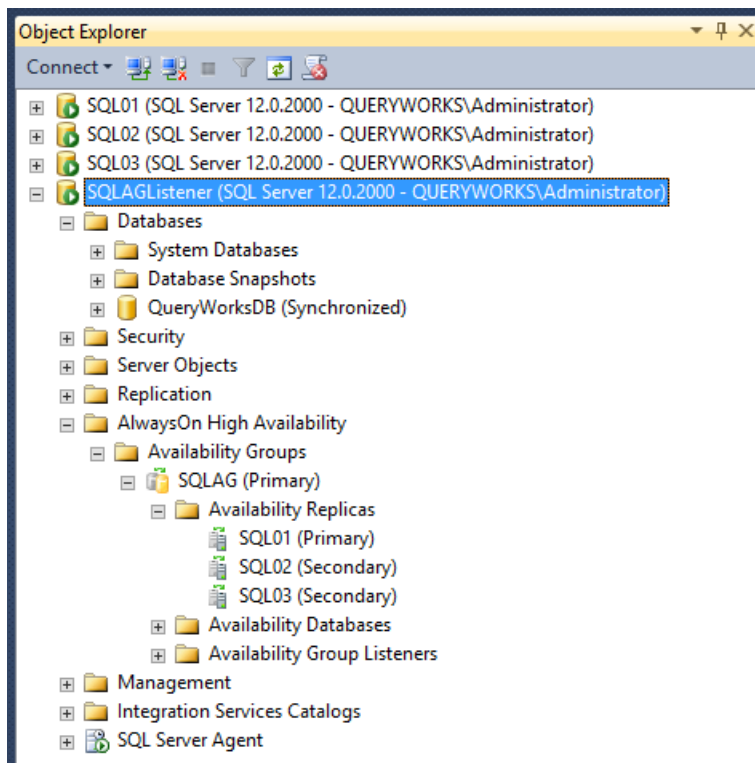
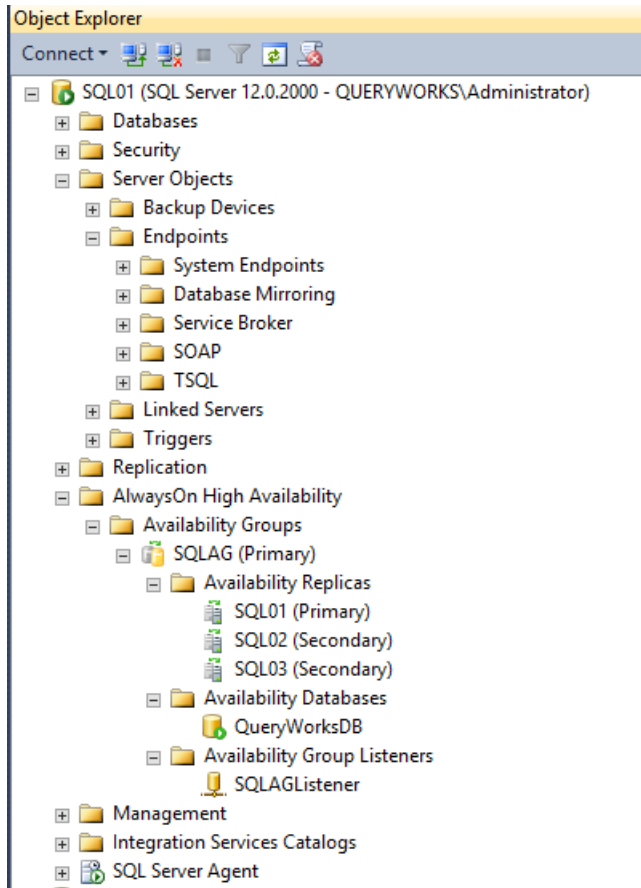
[Microsoft.SqlServer.Management.Smo.ObjectPermission]::

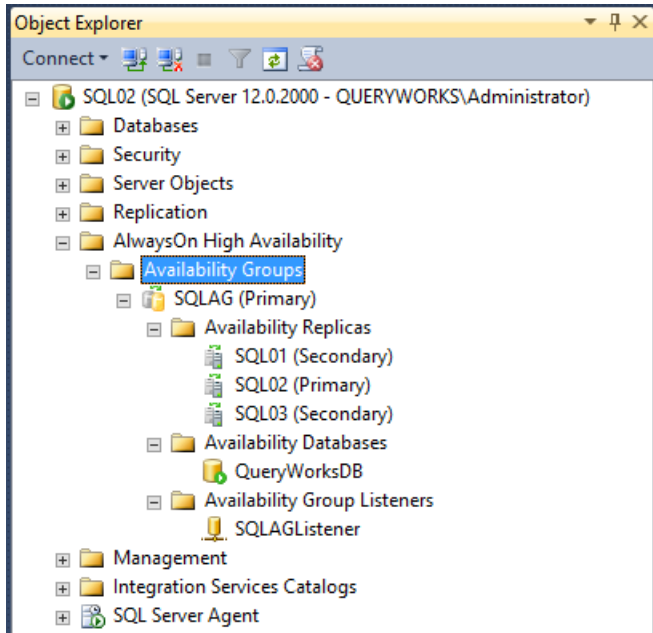
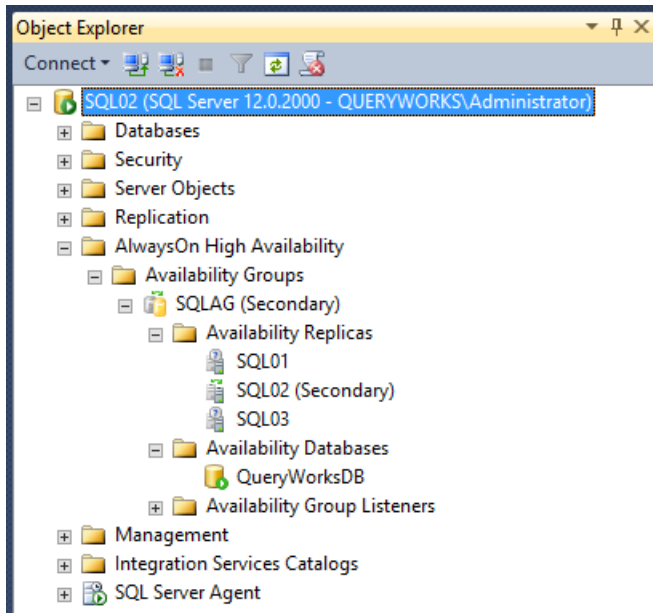
```
static
Microsoft.SqlServer.Management.Smo.ObjectPermission
Alter {get;}
```

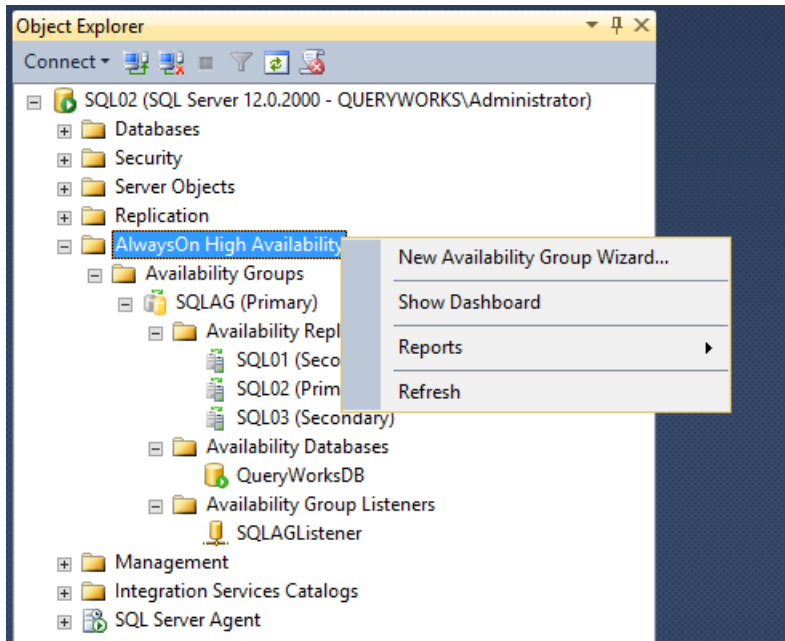












SQLAG:SQL02 Dashboard: SQL02

SQLAG: hosted by SQL02 (Replica role: Primary) Last updated: 8/9/2015 8:35:35 AM

Auto refresh: on

Availability group state: ✔ Healthy [Start Failover Wizard](#)

Primary instance: SQL02 [View AlwaysOn Health Events](#)

Failover mode: Automatic [View Cluster Quorum Information](#)

Cluster state: SQLLABCLUSTER (Normal Quorum)

Availability replica: [Add/Remove Columns](#)

Name	Role	Failover Mode	Synchronization State	Issues	Availability Mode	Connection State
✔ SQL01	Secondary	Automatic	Synchronized		Synchronous commit	Connected
✔ SQL02	Primary	Automatic	Synchronized		Synchronous commit	Connected
✔ SQL03	Secondary	Manual	Synchronizing		Asynchronous commit	Connected

Group by

Name	Replica	Synchronization State	Failover Readiness	Issues	Last Commit LSN
SQL01					
✔ QueryWorksDB	SQL01	Synchronized	No Data Loss		
SQL02					
✔ QueryWorksDB	SQL02	Synchronized	No Data Loss		32000000006400008
SQL03					
✔ QueryWorksDB	SQL03	Synchronizing	Data Loss		32000000006400008

```
PS SQLSERVER:\> Get-Help Test-sq]
Test-SqlAvailabilityGroup
Test-SqlAvailabilityReplica
Test-SqlDatabaseReplicaState
Test-SqlSmartAdmin

Test-SqlAvailabilityGroup [-Path] <string[]> [-ShowPolicyDetails] [-AllowUserPolicies] [-NoRefresh] [-Whatif] [-Confirm] [<CommonParameters>]

Test-SqlAvailabilityGroup [-InputObject] <AvailabilityGroup[]> [-ShowPolicyDetails] [-AllowUserPolicies] [-NoRefresh] [-Whatif] [-Confirm] [<CommonParameters>]
```

```
PS SQLSERVER:\> Test-SqlAvailabilityGroup -Path $AGPath
```

```
HealthState      Name
-----
Healthy          SQLAG
```

```
Parent           : [SQL01]
AutomatedBackupPreference : Secondary
FailureConditionLevel : OnCriticalServerErrors
HealthCheckTimeout : 30000
ID               : 65537
LocalReplicaRole : Primary
PrimaryReplicaServerName : SQL01
UniqueId        : 4053832c-64ab-4ad5-96e1-3e2b6a7f4389
AvailabilityReplicas : {SQL01, SQL02, SQL03}
AvailabilityDatabases : {QueryWorksDB}
DatabaseReplicaStates : {SQLAG, SQLAG, SQLAG}
AvailabilityGroupListeners : {SQLAGListener}
Name            : SQLAG
```

```
HealthState      AvailabilityGroup  Name
-----
Healthy          SQLAG             SQL01
```

```
Parent           : [SQLAG]
AvailabilityMode : SynchronousCommit
BackupPriority    : 50
ConnectionModeInPrimaryRole : AllowAllConnections
ConnectionModeInSecondaryRole : AllowNoConnections
ConnectionState  : Connected
CreateDate       : 8/3/2015 11:32:36 PM
DateLastModified : 8/3/2015 11:32:36 PM
EndpointUrl      : TCP://SQL01:5022
FailoverMode     : Automatic
JoinState        : JoinedStandaloneInstance
LastConnectErrorDescription :
LastConnectErrorNumber : -1
LastConnectErrorTimestamp : 1/1/1900 12:00:00 AM
MemberState      : Online
OperationalState : Online
Owner            : QUERYWORKS\Administrator
QuorumVoteCount  : 1
ReadOnlyRoutingConnectionUrl :
Role             : Primary
RollupRecoveryState : Online
RollupSynchronizationState : Synchronized
SessionTimeout   : 10
UniqueId        : 3477fd9e-9b6c-4f25-b96c-860ffa3d1afe
ReadOnlyRoutingList : {}
Name            : SQL01
```

```
HealthState      AvailabilityGroup  AvailabilityReplica  Name
-----
Healthy          SQLAG             SQL01                QueryWorksDB
Healthy          SQLAG             SQL02                QueryWorksDB
Healthy          SQLAG             SQL03                QueryWorksDB
```

```

Parent : [SQLAG]
AvailabilityDateabaseId : 6cf05ca7-45ad-49f2-af4d-02a34d898cdc
AvailabilityGroupId : 4053832c-64ab-4ad5-96e1-3e2b6a7f4389
AvailabilityGroupName : SQLAG
AvailabilityReplicaId : 3477fd9e-9b6c-4f25-b96c-860ffa3d1afe
DatabaseId : 5
EndOfLogLSN : 32000000011200001
EstimatedDataLoss : 0
EstimatedRecoveryTime : -1
FileStreamSendRate : -1
IsFailoverReady : True
IsJoined : True
IsLocal : True
IsSuspended : False
LastCommitLSN : 31000000042400001
LastCommitTime : 8/3/2015 9:55:13 PM
LastHardenedLSN : 32000000012000001
LastHardenedTime : 1/1/1900 12:00:00 AM
LastReceivedLSN : 0
LastReceivedTime : 1/1/1900 12:00:00 AM
LastRedoneLSN : 0
LastRedoneTime : 1/1/1900 12:00:00 AM
LastSentLSN : 0
LastSentTime : 1/1/1900 12:00:00 AM
LogSendQueueSize : -1
LogSendRate : -1
RecoveryLSN : 4294967295429496729500001
RedoQueueSize : -1
RedoRate : -1
ReplicaAvailabilityMode : SynchronousCommit
ReplicaRole : Primary
SuspendReason : NotApplicable
SynchronizationPerformance : -1
SynchronizationState : Synchronized
TruncationLSN : 32000000006400001
AvailabilityReplicaServerName : SQL01
AvailabilityDatabaseName : QueryWorksDB

```

Chapter 9: SQL Server Development

```

1 172-32-1176|White|Johnson|408 496-7223|10932 Bigge Rd.|Menlo Park|CA|USA
2 213-46-8915|Green|Marjorie|415 986-7020|309 63rd St. #411|Oakland|CA|USA
3 238-95-7766|Carson|Cheryl|415 548-7723|589 Darwin In.|Berkeley|CA|USA
4 267-41-2394|O'Leary|Michael|408 286-2428|22 Cleveland Ay. #14|San Jose|CA|USA
5 274-80-9391|Straight|Dean|415 834-2919|5420 College Ay.|Oakland|CA|USA
6 341-22-1782|Smith|Meander|913 843-0462|10 Mississippi Dr.|Lawrence|KS|USA
7 409-56-7008|Bennet|Abraham|415 658-9932|6223 Bateman St.|Berkeley|CA|USA
8 427-17-2319|Dull|Ann|415 836-7128|3410 Blonde St.|Palo Alto|CA|USA
9 472-27-2349|Gringlesby|Burt|707 938-6445|PO Box 792|Covelo|CA|USA
10 486-29-1786|Locksley|Charlene|415 585-4620|18 Broadway Ay.|San Francisco|CA|USA
11 527-72-3246|Greene|Morningstar|615 297-2723|22 Graybar House Rd.|Nashville|TN|USA
12 648-92-1872|Blotchet-Halls|Reginald|503 745-6402|55 Hillsdale Bl.|Corvallis|OR|USA
13 672-71-3249|Yokomoto|Akiko|415 935-4228|3 Silver Ct.|Walnut Creek|CA|USA
14 712-45-1867|del Castillo|Innes|615 996-8275|2286 Cram Pl. #86|Ann Arbor|MI|USA
15 722-51-5454|DeFrance|Michel|219 547-9982|3 Balding Pl.|Gary|IN|USA
16 724-08-9931|Stringer|Dirk|415 843-2991|5420 Telegraph Ay.|Oakland|CA|USA
17 724-80-9391|MacFeather|Stearns|415 354-7128|44 Upland Hts.|Oakland|CA|USA
18 756-30-7391|Karsen|Livia|415 534-9219|5720 McAuley St.|Oakland|CA|USA
19 807-91-6654|Panteley|Sylvia|301 946-8853|1956 Arlington Pl.|Rockville|MD|USA
20 846-92-7186|Hunter|Sheryl|415 836-7128|3410 Blonde St.|Palo Alto|CA|USA
21 893-72-1158|McBadden|Heather|707 448-4982|301 Putnam|Vacaville|CA|USA
22 899-46-2035|Ringer|Anne|801 826-0752|67 Seventh Ay.|Salt Lake City|UT|USA
23 998-72-3567|Ringer|Albert|801 826-0752|67 Seventh Ay.|Salt Lake City|UT|USA

```

localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)

Databases

System Databases

Database Snapshots

AdventureWorks2014

AdventureWorksLT2012

Chinook

FilestreamDB

Database Diagrams

Tables

System Tables

FileTables

dbo.MyFiles

Columns

Keys

Constrains

Triggers

Statistics

New File Table...
 Explore FileTable Directory
 Select Top 1000 Rows
 Script Table as
 View Dependencies



```

1  /***** Script for SelectTopNRows command from SSMS *****/
2  SELECT TOP 1000 [ID]
3      , [FileName]
4      , [InsertedDate]
5      , [InsertedBy]
6      , [XMLStuff]
7      , [FileExtension]
8  FROM [SampleDB].[dbo].[SampleXML]

```

100 % <

ID	FileName	InsertedDate	InsertedBy	XMLStuff	FileExtensi...
1	books.xml	2015-05-10 19:02:58.823	QUERYWORKS\Administrator	<catalog><book id="bk101"><author>Gambardella, M...	.xml
2	sqlmusings_rss.xml	2015-05-10 19:02:58.857	QUERYWORKS\Administrator	<rss xmlns:content="http://purl.org/rss/1.0/modules/co...	.xml

► This PC ► Local Disk (C:) ► XML Files ► XML 2015-May-10-0712PM

Name	Date modified	Type
books.xml	5/10/2015 7:12 PM	XML File
sqlmusings_rss.xml	5/10/2015 7:12 PM	XML File

rss_2015-May-10-0723PM.xml

```

1  <?xml version="1.0" encoding="UTF-8"?>
2  <rss version="2.0" xmlns:atom="http://www.w3.org/2005/Atom">
3  <channel>
4  <title><![CDATA[QueryWorks Latest News]]></title>
5  <atom:link href="http://www.queryworks.ca/rss.xml" rel="self" type="application/rss+xml" />
6  <link>http://www.queryworks.ca/rss.xml</link>
7  <description><![CDATA[What's new in the world of QueryWorks]]></description>
8  <pubDate>Sun, 10 May 2015 19:23:07 GMT</pubDate>
9  <lastBuildDate>Sun, 10 May 2015 19:23:07 GMT</lastBuildDate>
10 <managingEditor>info@queryworks.ca</managingEditor>
11 <generator>SQL Server 2014 XML and PowerShell</generator>
12 <docs>http://www.queryworks.ca/rss.xml</docs>
13 <item>
14 <title>master</title>
15 <description>SQL_Latin1_General_CP1_CI_AS</description>
16 <guid isPermaLink="false">http://www.queryworks.ca/?p=1</guid>
17 </item>
18 <item>
19 <title>tempdb</title>
20 <description>SQL_Latin1_General_CP1_CI_AS</description>
21 <guid isPermaLink="false">http://www.queryworks.ca/?p=2</guid>
22 </item>
23 <item>
24 <title>model</title>
25 <description>SQL_Latin1_General_CP1_CI_AS</description>
26 <guid isPermaLink="false">http://www.queryworks.ca/?p=3</guid>
27 </item>
28 <item>
29 <title>msdb</title>
30 <description>SQL_Latin1_General_CP1_CI_AS</description>
31 <guid isPermaLink="false">http://www.queryworks.ca/?p=4</guid>
32 </item>

```

Congratulations!



This is a valid RSS feed.

```
<item>
  <title>master</title>
  <description>SQL_Latin1_General_CP1_CI_AS</description>
  <guid isPermaLink="false">http://www.queryworks.ca/?p=1</guid>
</item>
<item>
  <title>tempdb</title>
  <description>SQL_Latin1_General_CP1_CI_AS</description>
  <guid isPermaLink="false">http://www.queryworks.ca/?p=2</guid>
</item>
```



QueryWorks Latest News

What's new in the world of QueryWorks

[master](#)

SQL_Latin1_General_CP1_CI_AS

[tempdb](#)

SQL_Latin1_General_CP1_CI_AS

[model](#)

SQL_Latin1_General_CP1_CI_AS

[msdb](#)

SQL_Latin1_General_CP1_CI_AS

[SampleDB](#)

SQL_Latin1_General_CP1_CI_AS


```
rss_style.xml x
2 <xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
3 <xsl:template match="/rss">
4 <html>
5 <head>
6 <style type="text/css">
7   body {
8     font-family: Verdana,"sans-serif";
9   }
10  h2 a, h2 a:link
11  {
12    text-decoration:none;
13    color: #990000;
14  }
15  .channeldescrip
16  {
17    background-color: #FFCC66;
18  }
19 </style>
20 </head>
21 <body>
22 <div id="rssheader">
23 <h2>
24 <xsl:element name="a">
25 <xsl:attribute name="href">
26 <xsl:value-of select="channel/link" />
27 </xsl:attribute>
28 <xsl:value-of select="channel/title" />
29 </xsl:element>
30 </h2>
31 </div>
32 <div class="rsscontents" style="border-width:0; background-color:#FFF; margin:1em">
33 <div class="channeldescrip">
34 <h3>
35 <xsl:value-of select="channel/description" />
36 </h3>
37 </div>
```

```

1  [
2  {
3      "RowError": "",
4      "RowState": 1,
5      "Table": "",
6      "ItemArray": "172-32-1176 White Johnson 408 496-7223          10932 Bigge Rd. Menlo Park CA    USA",
7      "HasErrors": false,
8      "CustomerID": "172-32-1176",
9      "LastName": "White",
10     "FirstName": "Johnson",
11     "Phone": "408 496-7223          ",
12     "AddressLine": "10932 Bigge Rd.",
13     "City": "Menlo Park",
14     "State": "CA  ",
15     "Country": "USA"
16 },
17 {
18     "RowError": "",
19     "RowState": 1,
20     "Table": "",
21     "ItemArray": "213-46-8915 Green Marjorie 415 986-7020          309 63rd St. #411 Oakland CA    USA",
22     "HasErrors": false,
23     "CustomerID": "213-46-8915",
24     "LastName": "Green",
25     "FirstName": "Marjorie",
26     "Phone": "415 986-7020          ",
27     "AddressLine": "309 63rd St. #411",
28     "City": "Oakland",
29     "State": "CA  ",
30     "Country": "USA"
31 },

```

```

1  /***** Script for SelectTopNRows command from SSMS *****/
2  SELECT TOP 1000 [ID]
3      ,[FileName]
4      ,[InsertedDate]
5      ,[InsertedBy]
6      ,[BLOBstuff]
7      ,[FileExtension]
8  FROM [SampleDB].[dbo].[SampleBLOB]

```

100 % <

Results Messages

ID	FileName	InsertedDate	InsertedBy	BLOBstuff	FileExtensi...
1	Hello SQLSaturday 114.docx	2015-05-10 20:19:28.293	QUERYWORKS\Administrator	0x504B030414000600080000021009E1CDC9A8E010000C20...	.docx
2	spekerevals.jpg	2015-05-10 20:19:30.343	QUERYWORKS\Administrator	0xFFD8FFE000104A46494600010001004800480000FFFE01...	.jpg
3	sqlsat108.png	2015-05-10 20:19:32.413	QUERYWORKS\Administrator	0x89504E470D0A1A0A0000000D4948445200002040000021...	.png
4	SSRS CheatSheet.pdf	2015-05-10 20:19:34.443	QUERYWORKS\Administrator	0x255044462D312E340A25C7EC8FA20A352030206F626A0A...	.pdf

This PC > Local Disk (C:) > BLOB Files > Retrieved BLOB 2015-May-10-0840PM

Name	Date modified	Type	Size
Hello SQLSaturday 114.docx	5/10/2015 8:40 PM	Office Open XML ...	292 KB
speakerevals.jpg	5/10/2015 8:40 PM	JPEG image	73 KB
sqlsat108.png	5/10/2015 8:40 PM	PNG image	92 KB
SSRS CheatSheet.pdf	5/10/2015 8:40 PM	PDF File	45 KB

```
1 12.0
2 1
3 1      SQLBINARY      0      0      ""      1      BLOBstuff      ""
4
```

- [-] SampleDB
 - [+] Database Diagrams
 - [+] Tables
 - [+] Views
 - [+] Synonyms
 - [-] Programmability
 - [+] Stored Procedures
 - [+] Functions
 - [+] Database Triggers
 - [-] Assemblies
 - [-] Microsoft.SqlServer.Types
 - [-] QueryWorksCLR ←
 - [+] Types
 - [+] Rules
 - [+] Defaults
 - [+] Plan Guides
 - [+] Sequences

File Explorer path: This PC > Local Disk (C:) > CLR Files > Retrieved CLR 2015-May-10-1120PM

Name	Date modified	Type	Size
QueryWorksCLR.dll	5/10/2015 11:20 PM	Application extens...	387 KB

JetBrains dotPeek (Administrator)

Assembly Explorer: QueryWorksCLR (1.0.4502.30032, msil, .Net Framework v4.5.1)

- References
 - <Root Namespace>
 - UserDefinedFunctions
 - Base types
 - RegexMatch(SqlChars input, SqlString pattern)

```
// Decompiled with JetBrains decompiler
// Type: UserDefinedFunctions
// Assembly: QueryWorksCLR, Version=1.0.4502.30032, Culture=neutral, PublicKeyToken=null
// MVID: BC54FB29-BF66-41CB-98C2-2E4134EA27F4
// Assembly location: C:\CLR Files\QueryWorksCLR.dll

using Microsoft.SqlServer.Server;
using System.Data.SqlTypes;
using System.Text.RegularExpressions;

public class UserDefinedFunctions
{
    [SqlFunction]
    public static SqlBoolean RegexMatch(SqlChars input, SqlString pattern)
    {
        RegexOptions options = RegexOptions.Singleline | RegexOptions.IgnorePatternWhitespace;
        return (SqlBoolean) new Regex(pattern.Value, options).IsMatch(new string(input.Value));
    }
}
```

Chapter 10: Business Intelligence

Name	TypeName	Path	CreationDate
Customer Reports	Folder	/Customer Reports	5/31/2015 9:21:59 PM
Customer List	Report	/Customer Reports/Customer List	5/31/2015 9:22:00 PM
Customer Sales	Report	/Customer Reports/Customer Sales	5/31/2015 9:24:56 PM
Data Sources	Folder	/Data Sources	5/31/2015 9:21:59 PM
AdventureWorks2014	DataSource	/Data Sources/AdventureWorks2014	5/31/2015 9:21:59 PM

```
ID : 7078384d-066f-40f4-ae58-f23b2c06f2a6
Name : Customer List
Path : /Customer Reports/Customer List
VirtualPath :
TypeName : Report
Size : 11320
SizeSpecified : True
Description :
Hidden : False
HiddenSpecified : False
CreationDate : 5/31/2015 9:22:00 PM
CreationDateSpecified : True
ModifiedDate : 5/31/2015 9:24:56 PM
ModifiedDateSpecified : True
CreatedBy : QUERYWORKS\Administrator
ModifiedBy : QUERYWORKS\Administrator
ItemMetadata : {}
```

Customer List

1 of 2 ? 100% Find | Next

Customer List

First Name	Middle Name	Last Name
Ken	J	Sánchez
Terri	Lee	Duffy
Roberto		Tamburello
Rob		Walters
Gail	A	Erickson
Jossef	H	Goldberg
Dylan	A	Miller
Diane	L	Margheim
Gigi	N	Matthew
Michael		Raheem
Ovidiu	V	Cracium
Thierry	B	D'Hers
Janice	M	Galvin
Michael	I	Sullivan
Sharon	B	Salavaria
David	M	Bradley

assembly

↑ This PC ▶ Local Disk (C:) ▶ Windows ▶ assembly

Assembly Name	Version	Cu...	Public Key Token	Proce...
Microsoft.ReportViewer.WebDesign	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WebForms	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WebForms	10.0.0.0		b03f5f7f11d50a3a	MSIL
Microsoft.ReportViewer.WinForms	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WinForms	10.0.0.0		b03f5f7f11d50a3a	MSIL
Microsoft.ServiceHosting.Tools.Develop...	1.0.0.0		31bf3856ad364e35	MSIL
Microsoft.SqlServer.BatchParser	12.0.0.0		89845dcd8080cc91	x86
Microsoft.SqlServer.BatchParser	11.0.0.0		89845dcd8080cc91	x86


Browser address bar: <http://localhost/Reports/Pages/Folder.aspx> Home - Report Manager

Navigation: Home | My Subscriptions | Site Settings

SQL Server Reporting Services Home

Search

Actions: New Folder | New Data Source | Report Builder | Folder Settings | Upload File | Delete

- Customer Reports
- Data Sources
- Sales Reports 2015-Jun-06-1104AM
Created by PowerShell 

Home > Data Sources Home | My Subscriptions | Site Settings

SQL Server Reporting Services AdventureWorks2014

Search

Actions: Delete | Move | Generate Model

Properties

- Subscriptions
- Dependent Items
- Security

Name: AdventureWorks2014

Description:

Hide in tile view

Enable this data source

Data source type: Microsoft SQL Server

Connection string: Data Source=(local);Initial Catalog=AdventureWorks2014

Connect using:

- Credentials supplied by the user running the report
Display the following text to prompt user for a user name and password:
Type or enter a user name and password to access the data source
 Use as Windows credentials when connecting to the data source
- Credentials stored securely in the report server
User name:
Password:
 Use as Windows credentials when connecting to the data source
 Impersonate the authenticated user after a connection has been made to the data source
- Windows integrated security
- Credentials are not required

Home



SQL Server Reporting Services

Data Sources

Delete | Move | New Folder | New Data Source

Type Name ↓

AdventureWorks2014

Sample

Home > Customer Reports

Home | My Subscriptions



SQL Server Reporting Services

Customer Sales

Search

Properties

Data Sources

Subscriptions

Processing Options

Cache Refresh Options

Report History

Snapshot Options

Security

DS_CUSTOMERLIST

A shared data source

/Data Sources/Sample

A custom data source

Data source type:

Microsoft SQL Server

Connection string:

Connect using:

Credentials supplied by the user running the report

Display the following text to prompt user for a user name and password:

Type or enter a user name and password to access the data source

Use as Windows credentials when connecting to the data source

```
Mode                LastWriteTime         Length Name
----                -
d-----           6/6/2015   2:55 PM             Customer Reports
VERBOSE: Saving C:\SSRS\RDL Files 2015-Jun-06-0255PM\Customer Reports\Customer Contact List.rdl
VERBOSE: Saving C:\SSRS\RDL Files 2015-Jun-06-0255PM\Customer Reports\Customer List.rdl
VERBOSE: Saving C:\SSRS\RDL Files 2015-Jun-06-0255PM\Customer Reports\Customer Sales.rdl
VERBOSE: Done downloading your RDL files to c:\SSRS\RDL Files 2015-Jun-06-0255PM
```



SQL Server Reporting Services Customer List

Navigation menu:

- Properties
- Data Sources
- Subscriptions
- Processing Options
- Cache Refresh Options
- Report History
- Snapshot Options
- Security**

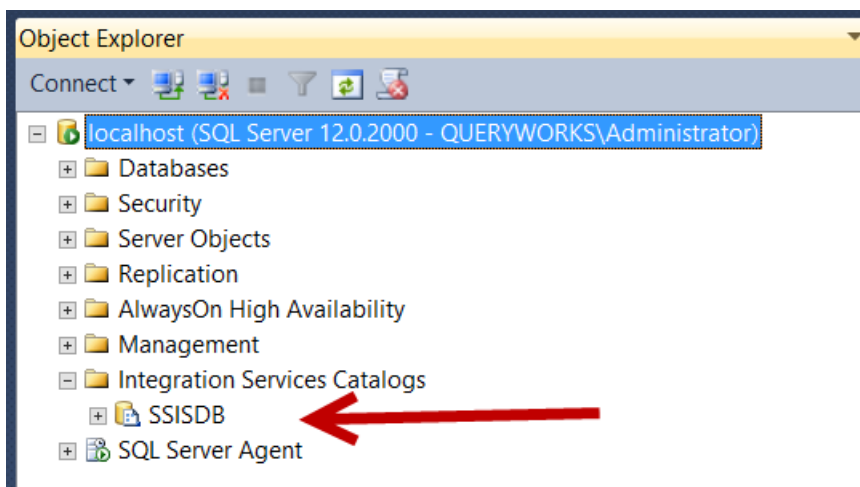
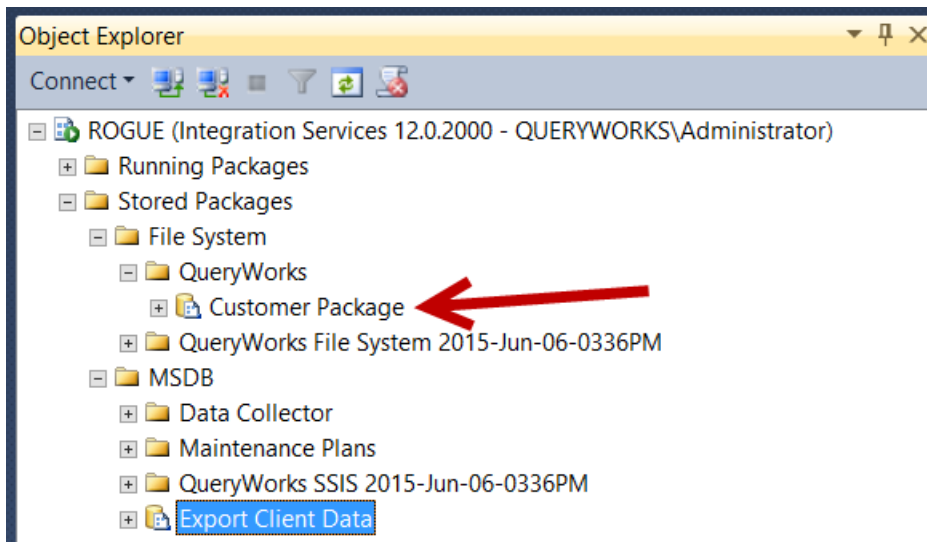
Actions: Delete | New Role Assignment | Revert to Parent Security

<input type="checkbox"/>	Group or User ↓	Role(s)
<input type="checkbox"/>	Edit BUILTIN\Administrators	Content Manager
<input type="checkbox"/>	Edit QUERYWORKS\tstark	Browser, Content Manager

Object Explorer

Connect

- ROGUE (Integration Services 12.0.2000 - QUERYWORKS\Administrator)
 - Running Packages
 - Stored Packages
 - File System
 - QueryWorks File System 2015-Jun-06-0336PM ←
 - MSDB
 - Data Collector
 - Maintenance Plans
 - QueryWorks SSIS 2015-Jun-06-0336PM ←
 - Export Client Data



↑ This PC > Local Disk (C:) > Windows > assembly

Assembly Name	Versi...
Microsoft.SqlServer.Management.HadrDMF	11.0.0...
Microsoft.SqlServer.Management.HelpViewer	12.0.0...
Microsoft.SqlServer.Management.IntegrationServices	12.0.0...
Microsoft.SqlServer.Management.IntegrationServices	11.0.0...
Microsoft.SqlServer.Management.IntegrationServicesE...	12.0.0...
Microsoft.SqlServer.Management.IntegrationServicesE...	11.0.0...
Microsoft.SqlServer.Management.MultiServerConnecti...	12.0.0...
Microsoft.SqlServer.Management.RegisteredServers	12.0.0...
Microsoft.SqlServer.Management.RegisteredServers	11.0.0...
Microsoft.SqlServer.Management.RegisteredServers	10.0.0...
Microsoft.SqlServer.Management.Sdk.Sfc	12.0.0...
Microsoft.SqlServer.Management.Sdk.Sfc	11.0.0...
Microsoft.SqlServer.Management.Sdk.Sfc	10.0.0...
Microsoft.SqlServer.Management.SmartAdminPolicies	12.0.0...
Microsoft.SqlServer.Management.SmoMetadataProvid...	12.0.0...
Microsoft.SqlServer.Management.SmoMetadataProvid...	11.0.0...
Microsoft.SqlServer.Management.SmoMetadataProvid...	10.0.0...
Microsoft.SqlServer.Management.SqlParser	12.0.0...
Microsoft.SqlServer.Management.SqlWizardFramework	12.0.0...
Microsoft.SqlServer.Management.SystemMetadataPro...	12.0.0...

Microsoft.SqlServer.Management...

General Version

Name: Microsoft.SqlServer.Management.Integratio

Processor Architecture: MSIL

Last Modified: 8/21/2014 7:12:53 PM

Culture: Neutral

Version: 12.0.0.0

Public Key Token: 89845dcd8080cc91

CodeBase:

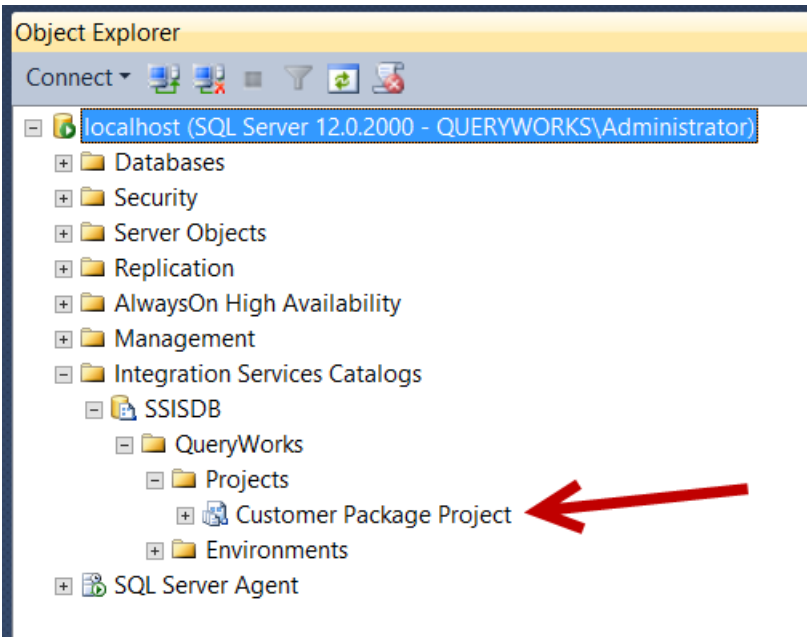
OK Cancel Help

89845dcd8080cc91 MSIL

Object Explorer

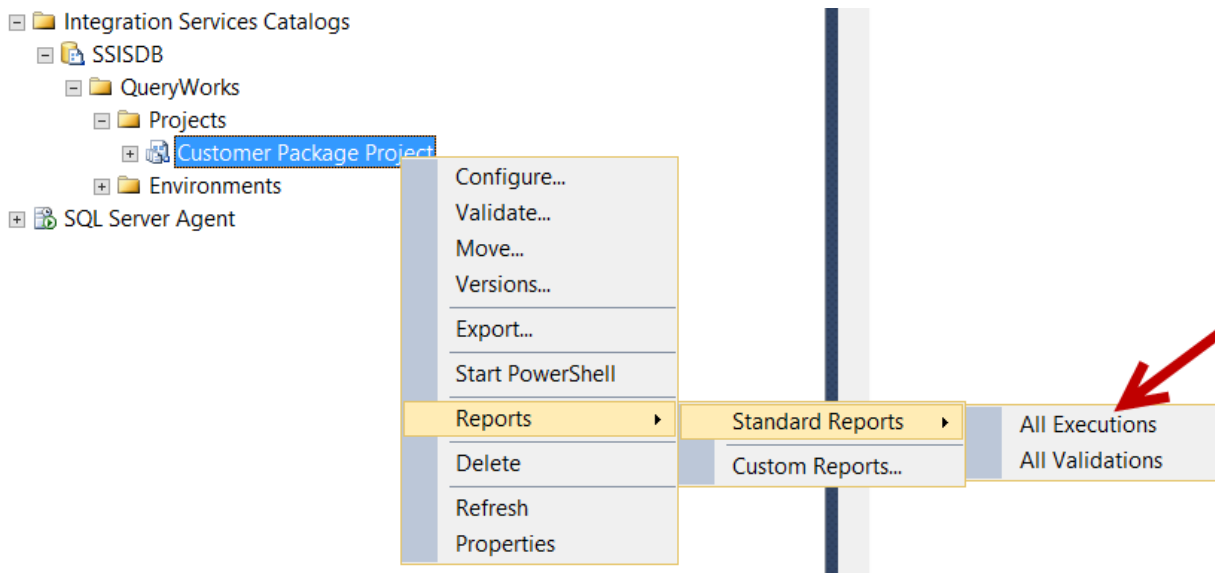
Connect

- localhost (SQL Server 12.0.2000 - QUERYWORKS\Administrator)
 - Databases
 - Security
 - Server Objects
 - Replication
 - AlwaysOn High Availability
 - Management
 - Integration Services Catalogs
 - SSISDB
 - QueryWorks
 - SQL Server Agent



This PC > Local Disk (C:) > SSIS > Customer Package Project

Name	Date modified	Type	Size
@Project.manifest	6/6/2015 9:19 PM	MANIFEST File	3 KB
[Content_Types].xml	6/6/2015 9:19 PM	XML Document	1 KB
Customer%20Package.dtsx	6/6/2015 9:19 PM	Integration Service...	3 KB
Project.params	6/6/2015 9:19 PM	PARAMS File	1 KB



All Executions

on ROGUE at 6/6/2015 9:29:01 PM

This report provides information about the Integration Services package executions that have been performed on the connected SQL Server instance.

[Filter](#) Start time range: 5/31/2015 - 6/6/2015; Status: All; (4 more)

Execution Information

0 Failed **0** Running **1** Succeeded **0** Others

ID	Status	Report	Folder Name	Project Name	Package Name	Start Time
2	Succeeded	Overview All Messages Execution Performance	QueryWorks	Customer Package Project	Customer Package.dtsx	6/6/2015 9:28:50 PM

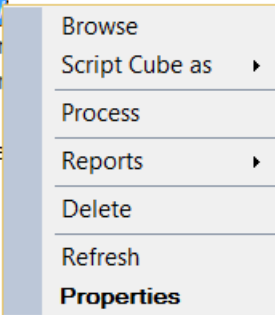
1/1

CommandType	Name	Version	Source
Cmdlet	Add-RoleMember	1.0	SQLASCmdlets
Cmdlet	Backup-ASDatabase	1.0	SQLASCmdlets
Cmdlet	Invoke-ASCmd	1.0	SQLASCmdlets
Cmdlet	Invoke-ProcessCube	1.0	SQLASCmdlets
Cmdlet	Invoke-ProcessDimension	1.0	SQLASCmdlets
Cmdlet	Invoke-ProcessPartition	1.0	SQLASCmdlets
Cmdlet	Merge-Partition	1.0	SQLASCmdlets
Cmdlet	New-RestoreFolder	1.0	SQLASCmdlets
Cmdlet	New-RestoreLocation	1.0	SQLASCmdlets
Cmdlet	Remove-RoleMember	1.0	SQLASCmdlets
Cmdlet	Restore-ASDatabase	1.0	SQLASCmdlets

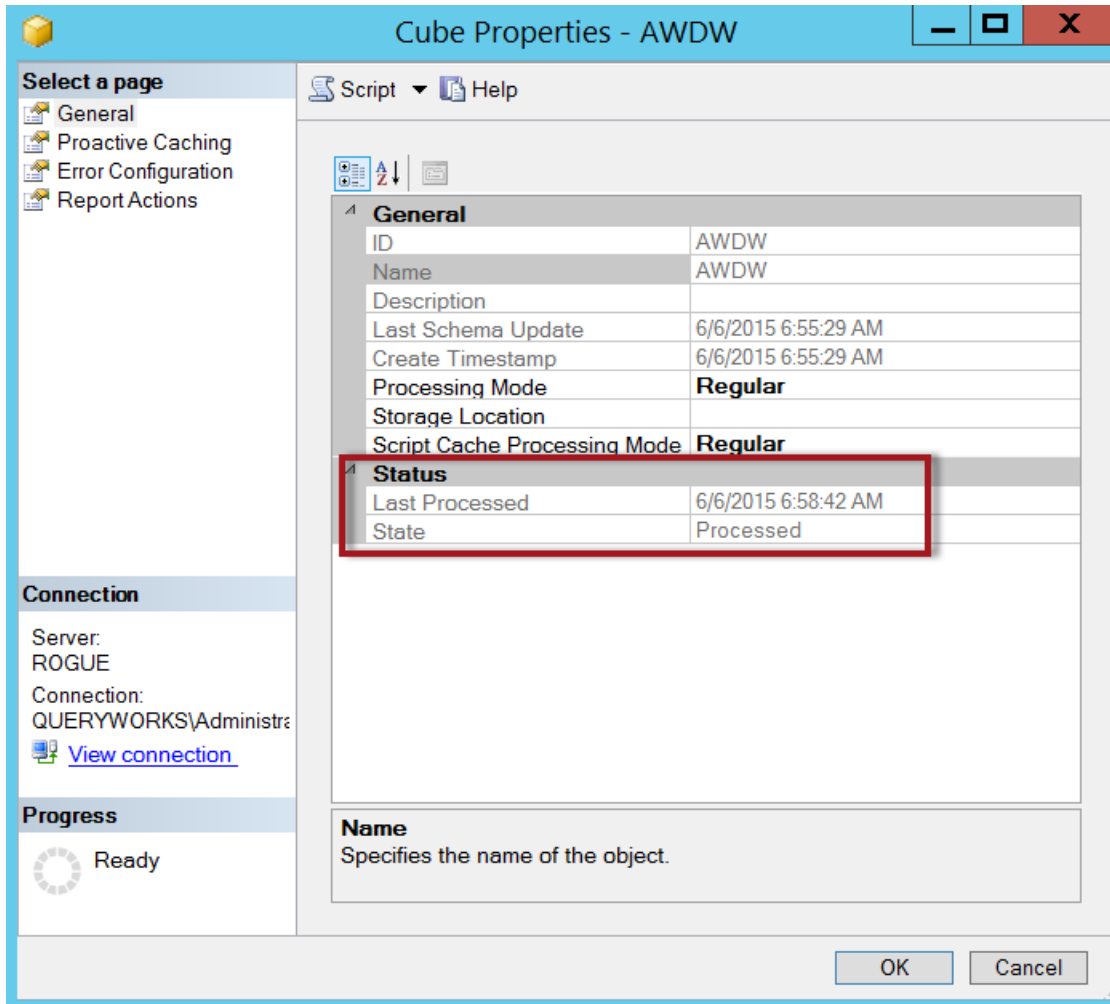
```
ConnectionString      : localhost
ConnectionInfo       : Microsoft.AnalysisServices.ConnectionInfo
SessionID            : 778FE4F2-49B7-4E7D-ABE1-D329A4F94B9A
CaptureXml           : False
CaptureLog           : {}
Connected            : True
SessionTrace         : Microsoft.AnalysisServices.SessionTrace
Version              : 12.0.2000.8
Edition              : Developer64
EditionID            : 2176971986
ProductLevel         : RTM
Databases            : {}
Assemblies           : {System, EXCELXLINTERNAL, VBAMDXINTERNAL, VBAMDX...}
Traces               : {FlightRecorder}
Roles                : {Administrators}
ServerProperties     : {DataDir, TempDir, LogDir, BackupDir...}
ProductName          : Microsoft SQL Server Analysis Services
ServerMode           : Multidimensional
DefaultCompatibilityLevel : 1100
ServerLocation       : OnPremise
IsLoaded             : True
CreatedTimestamp     : 6/4/2015 9:52:35 AM
LastSchemaUpdate    : 6/4/2015 9:52:35 AM
Description          :
Annotations          : {}
ID                   : ROGUE
Name                 : ROGUE
```

[-] ROGUE (Microsoft Analysis Server 12.0.2000.8 - QUERYWORKS\Administrator)

- [-] Databases
 - [-] AWDW
 - + Data Sources
 - + Data Source Views
 - [-] Cubes
 - + AWDW
 - + Dimensional Models
 - + Mining Structures
 - + Roles
 - + Assemblies
 - + Assemblies



A context menu is displayed over the 'AWDW' cube in the tree view. The menu items are: Browse, Script Cube as (with a right-pointing arrow), Process, Reports (with a right-pointing arrow), Delete, Refresh, and Properties (bolded).



Chapter 11: Helpful PowerShell Snippets

```
PS C:\Windows\system32> Get-Help "C:\PowerShell\Backup-Database.ps1"

NAME
    C:\PowerShell\Backup-Database.ps1

SYNOPSIS
    Creates a full database backup

SYNTAX
    C:\PowerShell\Backup-Database.ps1 [[-instanceName] <String>] [[-databaseName] <String>] [<CommonParameters>]

DESCRIPTION
    Creates a full database backup using specified instance name and database name
    This will place the backup file to the default backup directory of the instance

RELATED LINKS

REMARKS
    To see the examples, type: "get-help C:\PowerShell\Backup-Database.ps1 -examples".
    For more information, type: "get-help C:\PowerShell\Backup-Database.ps1 -detailed".
    For technical information, type: "get-help C:\PowerShell\Backup-Database.ps1 -full".
```

2015-May-23-1152AM

Saturday, May 23, 2015 11:51:31 AM

```
Sort-Object : Exception getting "StartTime": "Access is denied"
At line:6 char:1
+ Sort-Object -Property StartTime -Descending |
+ ~~~~~
+ CategoryInfo          : InvalidResult: (System.Diagnostics.Process (Idle):PObject) [Sort-Object]
  ception
+ FullyQualifiedErrorId : ExpressionEvaluation,Microsoft.PowerShell.Commands.SortObjectCommand
```

```
VERBOSE: & "C:\Program Files\7-Zip\7z.exe" a -tzip "C:\Temp\new archive.zip" "C:\Temp\old"
```

Browser navigation bar showing two tabs for 'C:\Temp\sample.html' with back, forward, search, and refresh icons.

Name	Status
AeLookupSvc	Stopped
ALG	Stopped
AppIDSvc	Stopped
Appinfo	Stopped
AppMgmt	Stopped
AppReadiness	Stopped
AppXSvc	Stopped
AudioEndpointBuilder	Stopped
Audiosrv	Stopped
BFE	Running
BITS	Running
BrokerInfrastructure	Running
Browser	Stopped
CertPropSvc	Running
COMSysApp	Running
CryptSvc	Running
DcomLaunch	Running
defragsvc	Stopped


```
<?xml version="1.0" encoding="UTF-8"?>
- <climatedata
  xsd:schemaLocation="http://www.climate.weatheroffice.gc.ca/climateData/bulkxml/bulkschema.xsd"
  xmlns:xsd="http://www.w3.org/TR/xmlschema-1/">
  <lang>ENG</lang>
  - <stationinformation>
    <name>VANCOUVER INT'L A</name>
    <province>BRITISH COLUMBIA</province>
    <latitude>49.20</latitude>
    <longitude>-123.18</longitude>
    <elevation>4.30</elevation>
    <climate_identifier>1108447</climate_identifier>
    <wmo_identifier/>
    <tc_identifier>YVR</tc_identifier>
  </stationinformation>
  + <legend>
  - <stationdata year="2012" month="1" day="1">
    <maxtemp units="°C" description="Maximum Temperature">6.4</maxtemp>
    <mintemp units="°C" description="Minimum Temperature">1.3</mintemp>
    <meantemp units="°C" description="Mean Temperature">3.9</meantemp>
    <heatdegdays units="°C" description="Heating Degree Days">14.1</heatdegdays>
    <cooldegdays units="°C" description="Cooling Degree Days">0.0</cooldegdays>
    <totalrain units="mm" description="Total Rain">0.2</totalrain>
    <totalsnow units="cm" description="Total Snow">0.0</totalsnow>
    <totalprecipitation units="mm" description="Total Precipitation">0.2</totalprecipitation>
    <snowonground units="cm" description="Snow on Ground">0</snowonground>
    <dirrofmaxgust units="10s Deg" description="Direction of Maximum Gust"/>
    <speedofmaxgust units="km/h" description="Speed of Maximum Gust">31</speedofmaxgust>
  </stationdata>
```

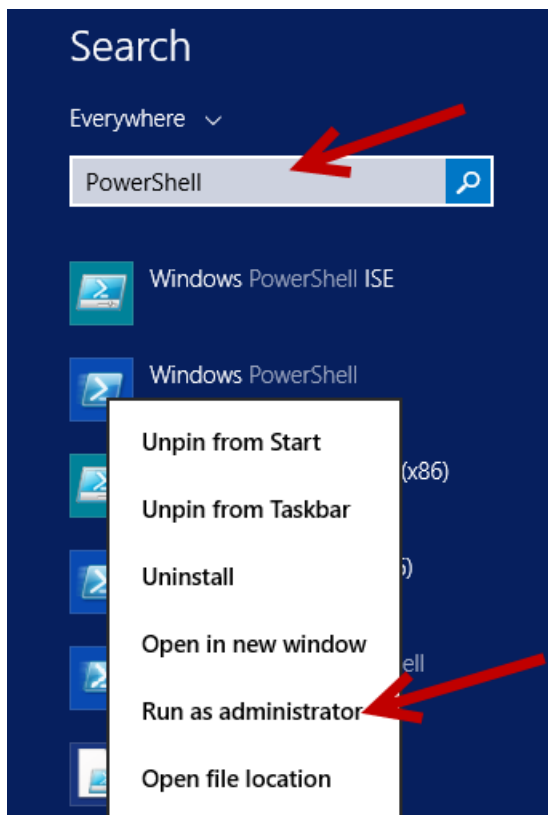
DelayedStockQuote

The following operations are supported. For a formal definition, please review the [Service Description](#).

- [GetQuickQuote](#)
This method retrieves just a stock price. Use a license key of 0 for testing.
- [GetQuote](#)
This method retrieves a current stock quote. Use a license key of 0 for testing.
- [GetQuoteDataSet](#)
This method retrieves the stock information and returns it in a dataset. Use a , to display multiple quotes. Use a license key of 0 for testing.

```
<?xml version="1.0" encoding="UTF-8"?>
- <QuoteData xmlns="http://ws.cdyne.com/" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <StockSymbol>MSFT</StockSymbol>
  <LastTradeAmount>47.42</LastTradeAmount>
  <LastTradeDateTime>2015-05-21T16:00:00</LastTradeDateTime>
  <StockChange>-0.16</StockChange>
  <OpenAmount>47.27</OpenAmount>
  <DayHigh>47.60</DayHigh>
  <DayLow>47.01</DayLow>
  <StockVolume>22410698</StockVolume>
  <PrevCls>47.58</PrevCls>
  <ChangePercent>-0.34%</ChangePercent>
  <FiftyTwoWeekRange>39.81 - 50.05</FiftyTwoWeekRange>
  <EarnPerShare>2.41</EarnPerShare>
  <PE>19.68</PE>
  <CompanyName>Microsoft Corporation</CompanyName>
  <QuoteError>>false</QuoteError>
</QuoteData>
```

Appendix A: PowerShell Primer



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2014 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator.QUERYWORKS> Get-Process | Select -First 10
```

Handles	NPM(K)	PM(K)	WS(K)	VM(M)	CPU(s)	Id	ProcessName
366	37	30216	32844	602	1.48	212	CloudAdapter.Service
41	5	744	3008	...81	0.08	752	conhost
54	7	1872	11556	...15	0.13	952	conhost
42	5	772	3288	...01	0.02	3248	conhost
40	5	664	2792	...79	0.03	3720	conhost
40	5	664	2792	...79	0.00	4144	conhost
423	15	1988	4088	54	0.42	372	csrss
190	16	1800	25356	68	0.81	440	csrss
210	14	3644	10832	...05	0.14	3008	dllhost
192	21	30500	58332	...11	2.97	764	dwm

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1* x
1 Get-Process | Select -First 10
```

```
PS C:\Windows\system32> Get-Process | Select -First 10
```

Handles	NPM(K)	PM(K)	WS(K)	VM(M)	CPU(s)	Id	ProcessName
362	36	30120	32832	594	1.48	212	CloudAdapter.Service
41	5	744	3008	...81	0.08	752	conhost
54	7	1872	11616	...15	0.14	952	conhost
42	5	772	3288	...01	0.02	3248	conhost
40	5	664	2792	...79	0.03	3720	conhost
40	5	664	2792	...79	0.00	4144	conhost
418	14	1988	4076	54	0.45	372	csrss
191	17	1816	33340	76	0.88	440	csrss
214	14	3644	10832	...05	0.14	3008	dllhost
192	21	30140	65856	...19	3.25	764	dwm

assembly

↑ This PC ▶ Local Disk (C:) ▶ Windows ▶ assembly ▶

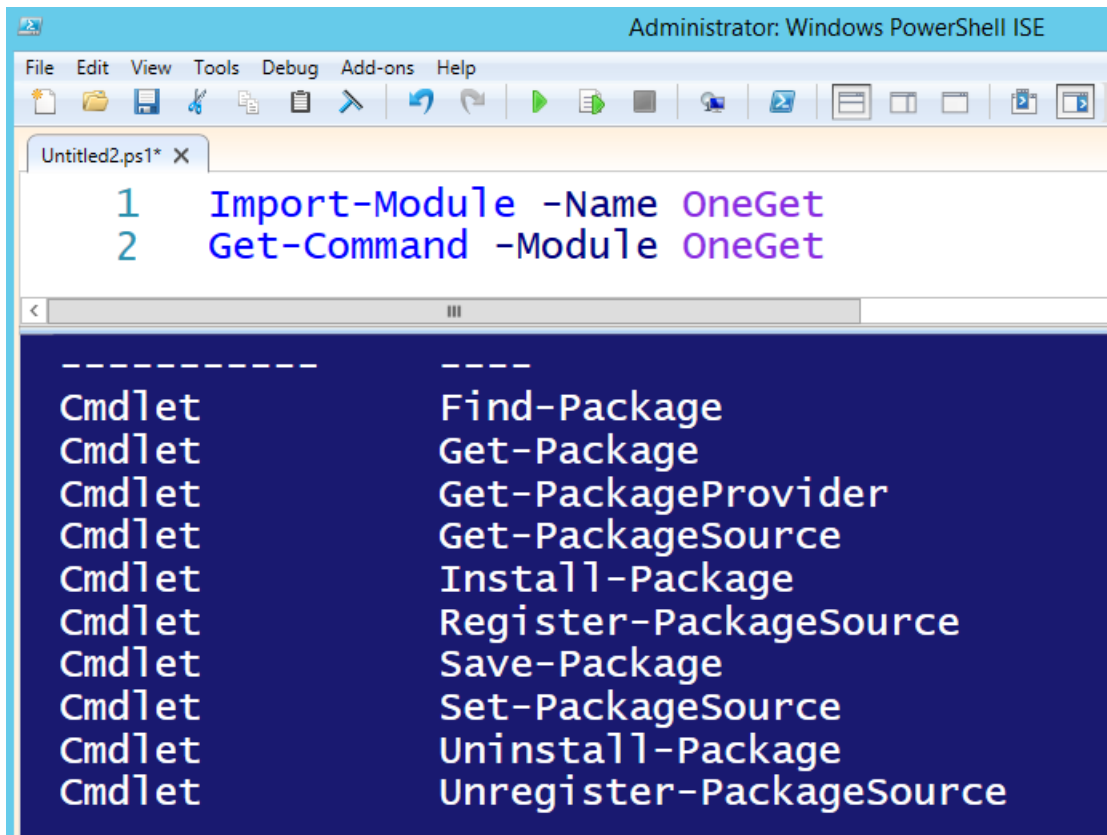
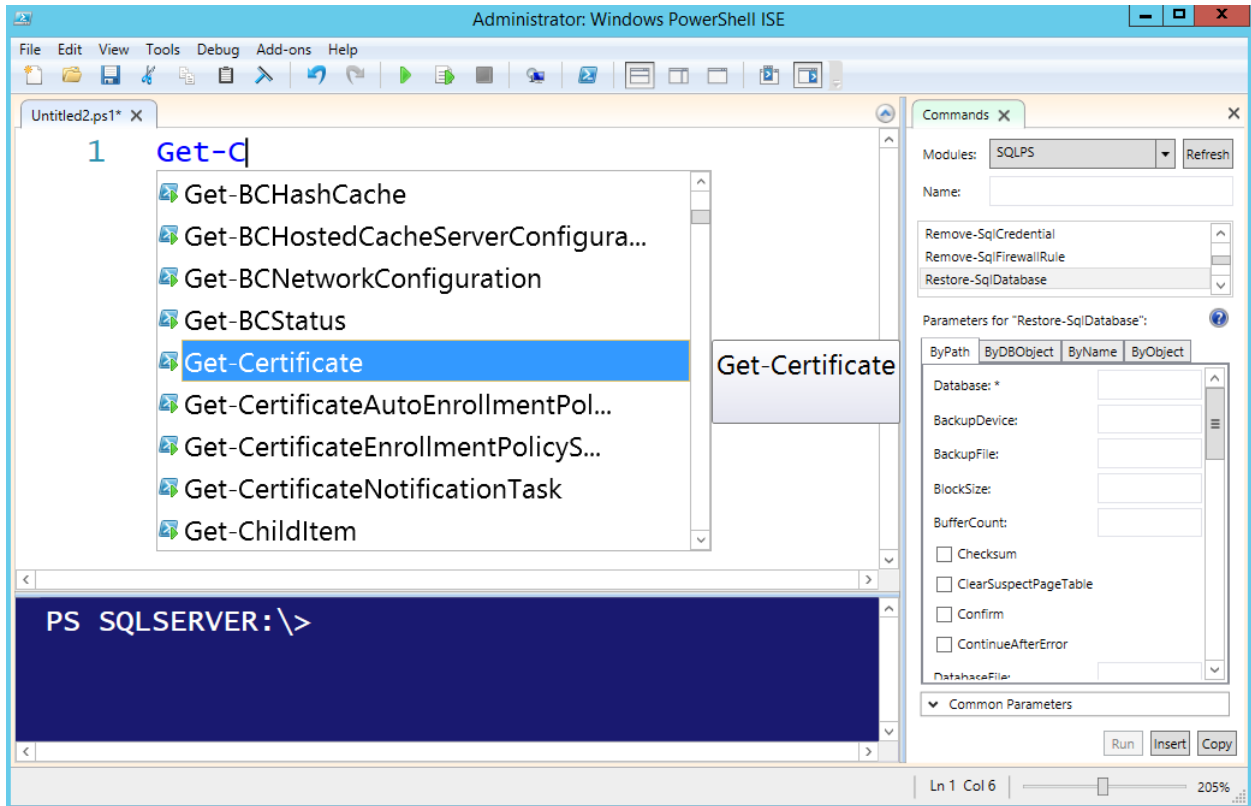
Assembly Name	Version	Cu...	Public Key Token	Proce...
Microsoft.ReportViewer.ProcessingO...	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.ProcessingO...	10.0.0.0		b03f5f7f11d50a3a	MSIL
Microsoft.ReportViewer.WebDesign	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WebForms	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WebForms	10.0.0.0		b03f5f7f11d50a3a	MSIL
Microsoft.ReportViewer.WinForms	12.0.0.0		89845dcd8080cc91	MSIL
Microsoft.ReportViewer.WinForms	10.0.0.0		b03f5f7f11d50a3a	MSIL
Microsoft.ServiceHosting.Tools.Deve...	1.0.0.0		31bf3856ad364e35	MSIL

```
Administrator: Windows PowerShell ISE
File Edit View Tools Debug Add-ons Help
Untitled1.ps1* X
1 $a = Get-Date
2 $a | Get-Member

PS C:\Windows\system32> $a = Get-Date
$a | Get-Member

TypeName: System.DateTime

Name           MemberType      Definition
-----
Add             Method          datetime Add(timespan value)
AddDays        Method          datetime AddDays(double value)
AddHours       Method          datetime AddHours(double value)
AddMilliseconds Method          datetime AddMilliseconds(double value)
AddMinutes     Method          datetime AddMinutes(double value)
AddMonths      Method          datetime AddMonths(int months)
AddSeconds     Method          datetime AddSeconds(double value)
AddTicks       Method          datetime AddTicks(long value)
AddYears       Method          datetime AddYears(int value)
CompareTo      Method          int CompareTo(System.Object value), int Compare...
Equals         Method          bool Equals(System.Object value), bool Equals(d...
GetDateTimeFormats Method        string[] GetDateTimeFormats(), string[] GetDate...
GetHashCode    Method          int GetHashCode()
GetObjectData  Method          void ISerializable.GetObjectData(System.Runtime...
GetType        Method          type GetType()
```



```
Administrator: Windows PowerShell

start8
chef_development

Downloading 'http://www.magiciso.com/setup_magicdisc.exe'
  To C:\Users\Administrator.QUERYWORKS\AppData\Local\Temp\1\chocolatey\MagicDisc\MagicDiscinstall.exe
  [oooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooooo ]

The package 'MagicDisc' comes from a package source that is not marked as
trusted.
Are you sure you want to install software from 'chocolatey'?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"):
```

```
Administrator: Windows PowerShell

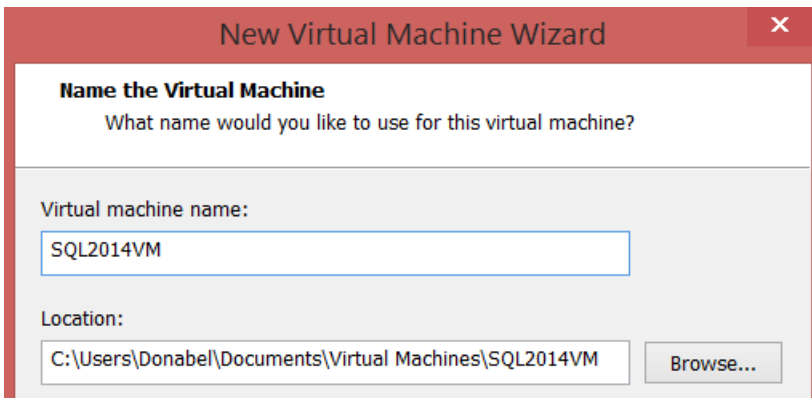
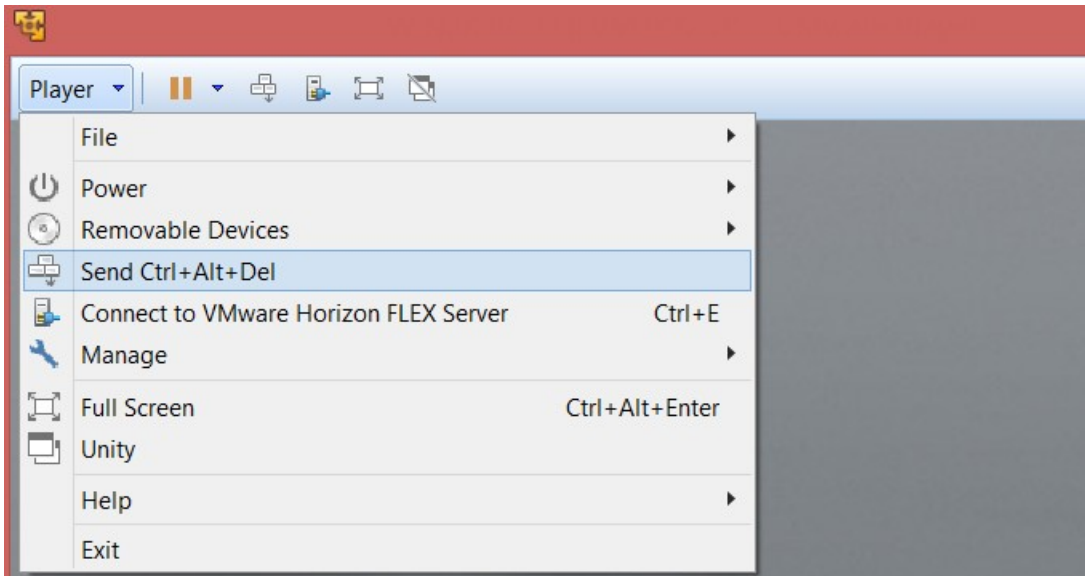
PS C:\> Get-Command *NetworkSwitch* | Format-Table -AutoSize

CommandType Name          Version Source
-----
Function    Disable-NetworkSwitchEthernetPort 1.0.0.0 NetworkSwitch
Function    Disable-NetworkSwitchFeature      1.0.0.0 NetworkSwitch
Function    Disable-NetworkSwitchVlan         1.0.0.0 NetworkSwitch
Function    Enable-NetworkSwitchEthernetPort  1.0.0.0 NetworkSwitch
Function    Enable-NetworkSwitchFeature       1.0.0.0 NetworkSwitch
Function    Enable-NetworkSwitchVlan          1.0.0.0 NetworkSwitch
Function    Get-NetworkSwitchEthernetPort     1.0.0.0 NetworkSwitch
Function    Get-NetworkSwitchFeature          1.0.0.0 NetworkSwitch
Function    Get-NetworkSwitchGlobalData       1.0.0.0 NetworkSwitch
Function    Get-NetworkSwitchVlan             1.0.0.0 NetworkSwitch
Function    New-NetworkSwitchVlan             1.0.0.0 NetworkSwitch
Function    Remove-NetworkSwitchEthernetPortIP 1.0.0.0 NetworkSwitch
Function    Remove-NetworkSwitchVlan          1.0.0.0 NetworkSwitch
Function    Restore-NetworkSwitchConfiguration 1.0.0.0 NetworkSwitch
Function    Save-NetworkSwitchConfiguration   1.0.0.0 NetworkSwitch
Function    Set-NetworkSwitchEthernetPortIP    1.0.0.0 NetworkSwitch
Function    Set-NetworkSwitchPortMode         1.0.0.0 NetworkSwitch
Function    Set-NetworkSwitchPortProperty     1.0.0.0 NetworkSwitch
```

```
Select Administrator: Windows PowerShell

CommandType Name Source
-----
Function Configuration PSDesiredStateConfiguration
Function Find-DscResource PSDesiredStateConfiguration
Function Get-DscConfiguration PSDesiredStateConfiguration
Function Get-DscConfigurationStatus PSDesiredStateConfiguration
Function Get-DscLocalConfigurationManager PSDesiredStateConfiguration
Function Get-DscResource PSDesiredStateConfiguration
Function New-DSCCheckSum PSDesiredStateConfiguration
Function Restore-DscConfiguration PSDesiredStateConfiguration
Function Test-DscConfiguration PSDesiredStateConfiguration
Cmdlet Compare-DscConfiguration PSDesiredStateConfiguration
Cmdlet Publish-DscConfiguration PSDesiredStateConfiguration
Cmdlet Set-DscLocalConfigurationManager PSDesiredStateConfiguration
Cmdlet Start-DscConfiguration PSDesiredStateConfiguration
Cmdlet Update-DscConfiguration PSDesiredStateConfiguration
```

Appendix B: Creating a SQL Server VM



New Virtual Machine Wizard

Specify Disk Capacity

How large do you want this disk to be?

The virtual machine's hard disk is stored as one or more files on the host computer's physical disk. These file(s) start small and become larger as you add applications, files, and data to your virtual machine.

Maximum disk size:

Recommended size for Windows Server 2012: 60 GB

Store virtual disk as a single file

Split virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Virtual Machine Settings

Options

Device	Summary
Memory	4 GB
Processors	1
Hard Disk (SCSI)	40 GB
CD/DVD (SATA)	Using file C:\MSDN\en_windows_s...
Network Adapter	NAT
USB Controller	Present
Sound Card	Auto detect
Printer	Present
Display	Auto detect

Memory

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine: MB

64 GB -
32 GB -
16 GB -
8 GB -
4 GB -
2 GB -
1 GB -

■ Maximum recommended memory
(Memory swapping may occur beyond this size.)
21396 MB

Server Manager

Server Manager Dashboard

Manage Tools View Help

Dashboard

- Local Server
- All Servers
- File and Storage Services

WELCOME TO SERVER MANAGER

1 Configure this local server

- 2 Add roles and features
- 3 Add other servers to manage
- 4 Create a server group

QUICK START

WHAT'S NEW

LEARN MORE

Hide

ROLES AND SERVER GROUPS

Roles: 1 | Server groups: 1 | Servers total: 1

File and Storage Services	Local Server
1	1
Manageability	Manageability
Events	Events
Performance	Services
BPA results	Performance
	BPA results

11:28 PM 7/11/2015

Server Manager

Server Manager ▶ Local Server

Dashboard

Local Server

All Servers

File and Storage Services ▶

PROPERTIES For WIN-VOOFQ8FCSVQ

Computer name: WIN-VOOFQ8FCSVQ

Workgroup: WORKGROUP

Last installed updates: Never

Windows Update: Never check for updates

Last checked for updates: Never

System Properties

Computer Name Hardware Advanced Remote

Windows uses the following information to identify your computer on the network.

Computer description: SQLVM 2014

Full computer name: WIN-VOOFQ8FCSVQ

Workgroup: WORKGROUP

To rename this computer or change its domain or workgroup, click Change.

Change...

Computer Name/Domain Changes

You can change the name and the membership of this computer. Changes might affect access to network resources.

Computer name: PHOENIX

Full computer name: PHOENIX

Member of:

Domain:

Workgroup: WORKGROUP

OK Cancel

Microsoft-Windows-Security-SPP Application 7/11/2015 11:41:40 PM

Microsoft-Windows-Security-SPP Application 7/11/2015 11:41:25 PM

Microsoft-Windows-Complu Application 7/11/2015 11:40:21 PM

WIN-VOOFQ8FCSVQ 5379 Warning Microsoft-Windows-Complu

11:47 PM 7/11/2015

Server Manager

Server Manager ▶ Local Server

Dashboard

Local Server

All Servers

File and Storage Services ▶

PROPERTIES For PHOENIX

Computer name: PHOENIX

Workgroup: WORKGROUP

Last installed updates: Never

Windows Update: Never check for updates

Last checked for updates: Never

Windows Firewall: Public: Off

Remote management: Enabled

Remote Desktop: Disabled

NIC Teaming: Disabled

Ethernet0: IPv4 address assigned by DHCP, IPv6 enabled

Windows Error Reporting: Off

Customer Experience Improvement Program: Not participating

IE Enhanced Security Configuration: On

Time zone: (UTC-08:00) Pacific Time (US & Canada)

Product ID: Not activated

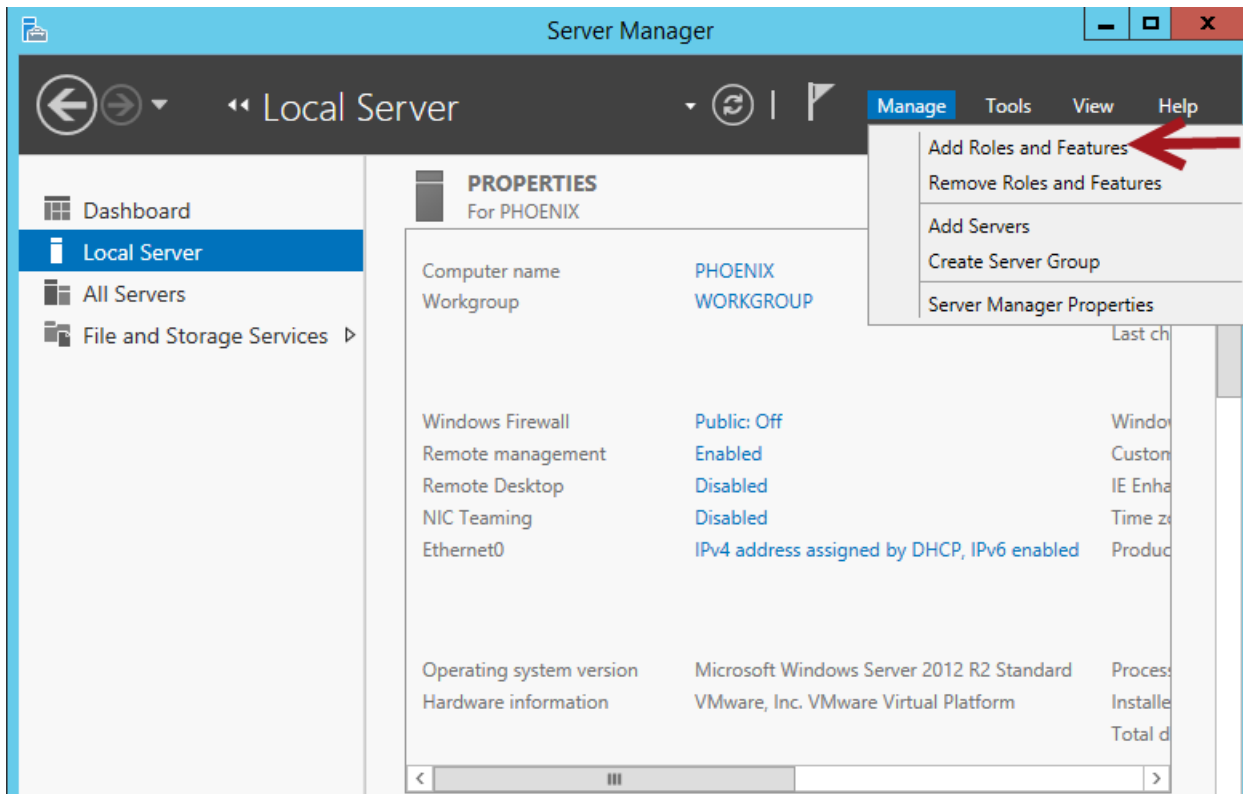
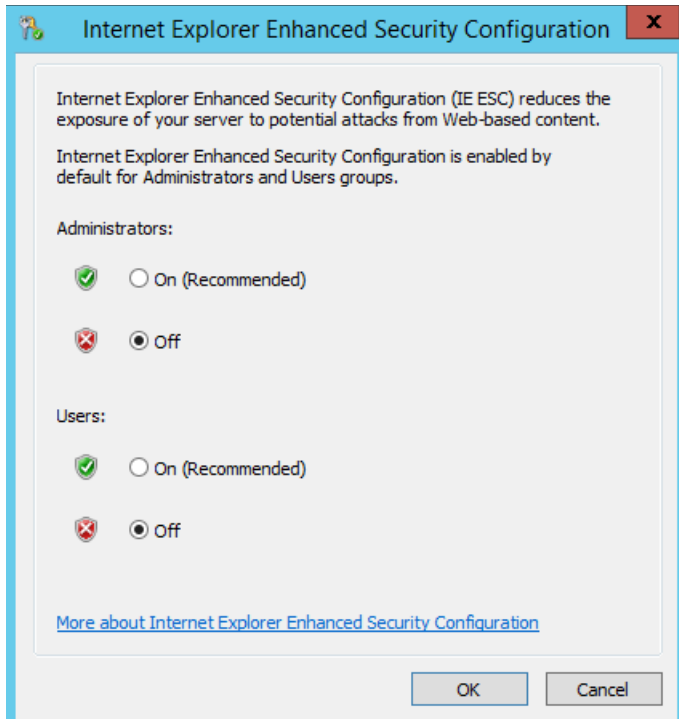
Operating system version: Microsoft Windows Server 2012 R2 Standard

Hardware information: VMware, Inc. VMware Virtual Platform

Processors: Intel(R) Core(TM) i7-4800MQ CPU @ 2.70GHz

Installed memory (RAM): 4 GB

Total disk space: 39.66 GB





Select installation type

DESTINATION SERVER
PHOENIX

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

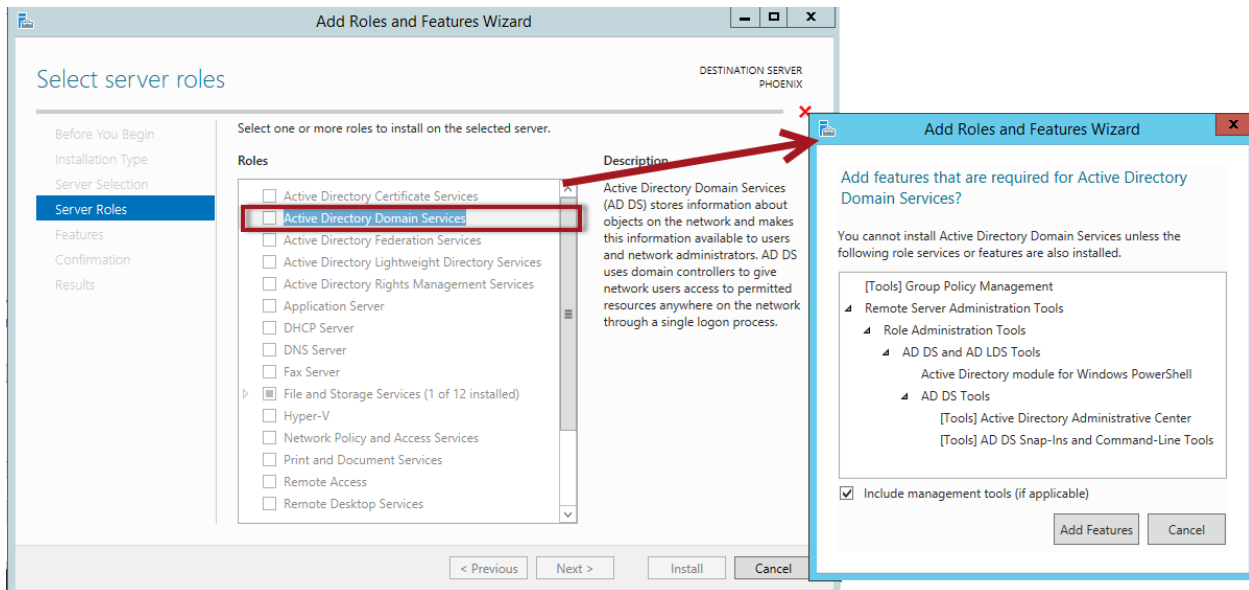
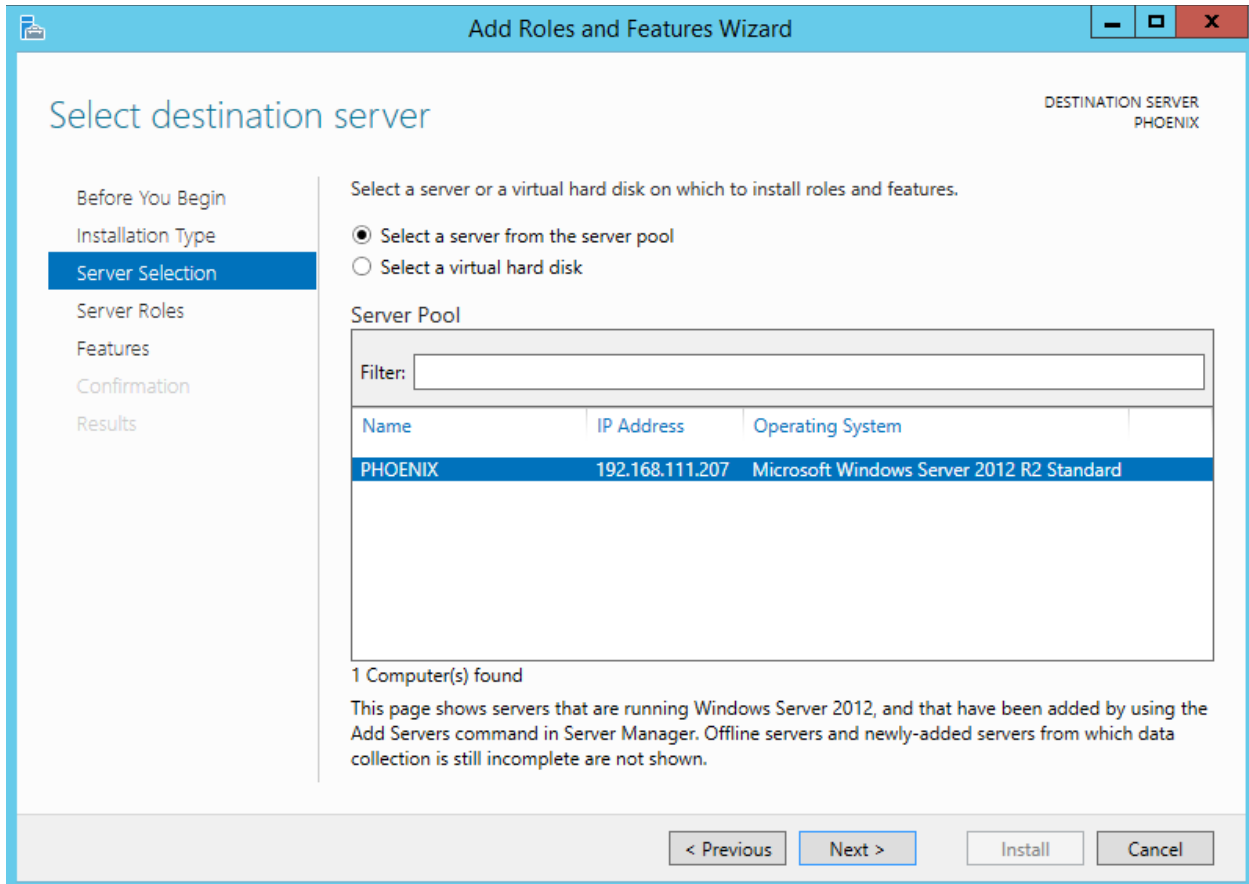
- Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.
- Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous

Next >

Install

Cancel





Confirm installation selections

DESTINATION SERVER
PHOENIX

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

Confirmation

Results

To install the following roles, role services, or features on selected server, click Install.

Restart the destination server automatically if required

Optional features (such as administration tools) might be displayed on this page because they have been selected automatically. If you do not want to install these optional features, click Previous to clear their check boxes.

- Active Directory Domain Services
- Group Policy Management
- Remote Server Administration Tools
 - Role Administration Tools
 - AD DS and AD LDS Tools
 - Active Directory module for Windows PowerShell
 - AD DS Tools
 - Active Directory Administrative Center
 - AD DS Snap-Ins and Command-Line Tools

[Export configuration settings](#)
[Specify an alternate source path](#)

< Previous

Next >

Install

Cancel



Installation progress

DESTINATION SERVER
PHOENIX

Before You Begin

Installation Type

Server Selection

Server Roles

Features

AD DS

Confirmation

Results

View installation progress

Feature installation

Configuration required. Installation succeeded on PHOENIX.

Active Directory Domain Services

Additional steps are required to make this machine a domain controller.

Promote this server to a domain controller

Group Policy Management

Remote Server Administration Tools

Role Administration Tools

AD DS and AD LDS Tools

AD DS Tools

AD DS Snap-Ins and Command-Line Tools

Active Directory Administrative Center



You can close this wizard without interrupting running tasks. View task progress or open this page again by clicking Notifications in the command bar, and then Task Details.

[Export configuration settings](#)

< Previous

Next >

Close

Cancel



Deployment Configuration

TARGET SERVER
PHOENIX

Deployment Configuration

Domain Controller Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select the deployment operation

- Add a domain controller to an existing domain
- Add a new domain to an existing forest
- Add a new forest

Specify the domain information for this operation

Root domain name:

[More about deployment configurations](#)

< Previous

Next >

Install

Cancel



Domain Controller Options

TARGET SERVER
PHOENIX

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Select functional level of the new forest and root domain

Forest functional level:

Domain functional level:

Specify domain controller capabilities

Domain Name System (DNS) server

Global Catalog (GC)

Read only domain controller (RODC)

Type the Directory Services Restore Mode (DSRM) password

Password:

Confirm password:

[More about domain controller options](#)

< Previous

Next >

Install

Cancel

Active Directory Domain Services Configuration Wizard

TARGET SERVER
PHOENIX

DNS Options

⚠ A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found... [Show more](#) ✕

- Deployment Configuration
- Domain Controller Options
- DNS Options**
- Additional Options
- Paths
- Review Options
- Prerequisites Check
- Installation
- Results

Specify DNS delegation options

Create DNS delegation

DNS Options

⚠ A delegation for this DNS server cannot be created because the authoritative parent zone cannot be found or it does not run Windows DNS server. If you are integrating with an existing DNS infrastructure, you should manually create a delegation to this DNS server in the parent zone to ensure reliable name resolution from outside the domain "queryworks.local". Otherwise, no action is required.

OK

[More about DNS delegation](#)

< Previous Next > Install Cancel



Additional Options

TARGET SERVER
PHOENIX

Deployment Configuration

Domain Controller Options

DNS Options

Additional Options

Paths

Review Options

Prerequisites Check

Installation

Results

Verify the NetBIOS name assigned to the domain and change it if necessary

The NetBIOS domain name:

[More about additional options](#)

< Previous

Next >

Install

Cancel

Active Directory Domain Services Configuration Wizard

TARGET SERVER
PHOENIX

Paths

- Deployment Configuration
- Domain Controller Options
 - DNS Options
 - Additional Options
 - Paths**
 - Review Options
 - Prerequisites Check
 - Installation
 - Results

Specify the location of the AD DS database, log files, and SYSVOL

Database folder:	<input type="text" value="C:\Windows\NTDS"/>	...
Log files folder:	<input type="text" value="C:\Windows\NTDS"/>	...
SYSVOL folder:	<input type="text" value="C:\Windows\SYSVOL"/>	...

[More about Active Directory paths](#)

< Previous Next > Install Cancel

Active Directory Domain Services Configuration Wizard

Prerequisites Check

TARGET SERVER
PHOENIX

✔ All prerequisite checks passed successfully. Click 'Install' to begin installation. [Show more](#) ✕

- Deployment Configuration
- Domain Controller Options
 - DNS Options
- Additional Options
- Paths
- Review Options
- Prerequisites Check**
- Installation
- Results

Prerequisites need to be validated before Active Directory Domain Services is installed on this computer

[Rerun prerequisites check](#)

^ View results

⚠ Windows Server 2012 R2 domain controllers have a default for the security setting named "Allow cryptography algorithms compatible with Windows NT 4.0" that prevents weaker cryptography algorithms when establishing security channel sessions.

For more information about this setting, see Knowledge Base article 942564 (<http://go.microsoft.com/fwlink/?LinkId=104751>).


⚠ This computer has at least one physical network adapter that does not have static IP address(es) assigned to its IP Properties. If both IPv4 and IPv6 are enabled for a network adapter, both IPv4 and IPv6 static IP addresses should be assigned to both IPv4 and IPv6 Properties of the physical network adapter. Such static IP address(es) assignment should be done to all the physical network adapters for reliable Domain Name System

⚠ If you click Install, the server automatically reboots at the end of the promotion operation.

[More about prerequisites](#)

< Previous Next > Install Cancel

←



QUERYWORKS\Administra...

Password →

New Object - User ✕

Create in: queryworks.local/Users

First name: Initials:

Last name:

Full name:

User logon name:
 @queryworks.local ▼

User logon name (pre-Windows 2000):

New Object - User ✕

Create in: queryworks.local/Users

Password:

Confirm password:

User must change password at next logon
 User cannot change password
 Password never expires
 Account is disabled

SQL2014VM - VMware Player

Player ⏸ ⏪ ⏩ ⏴ ⏵

- File ▶
- Power ▶
- Removable Devices ▶
 - CD/DVD (SATA) ▶
 - Disconnect
 - Network Adapter ▶
 - Settings...
 - Printer ▶
 - Sound Card ▶
 - Validity Sensors Synaptics FP Sensors (WBF) (PID=0017) ▶
 - Intel(R) Wireless Bluetooth(R) 4.0 + HS Adapter ▶
 - Acer Integrated Camera ▶
- Send Ctrl+Alt+Del
- Connect to VMware Horizon FLEX Server Ctrl+E
- Manage ▶
- Full Screen Ctrl+Alt+Enter
- Unity
- Help ▶
- Exit

SQL Server 2014 Setup

Install Rules

Setup rules identify potential problems that might occur while running Setup. Failures must be corrected before Setup can continue.

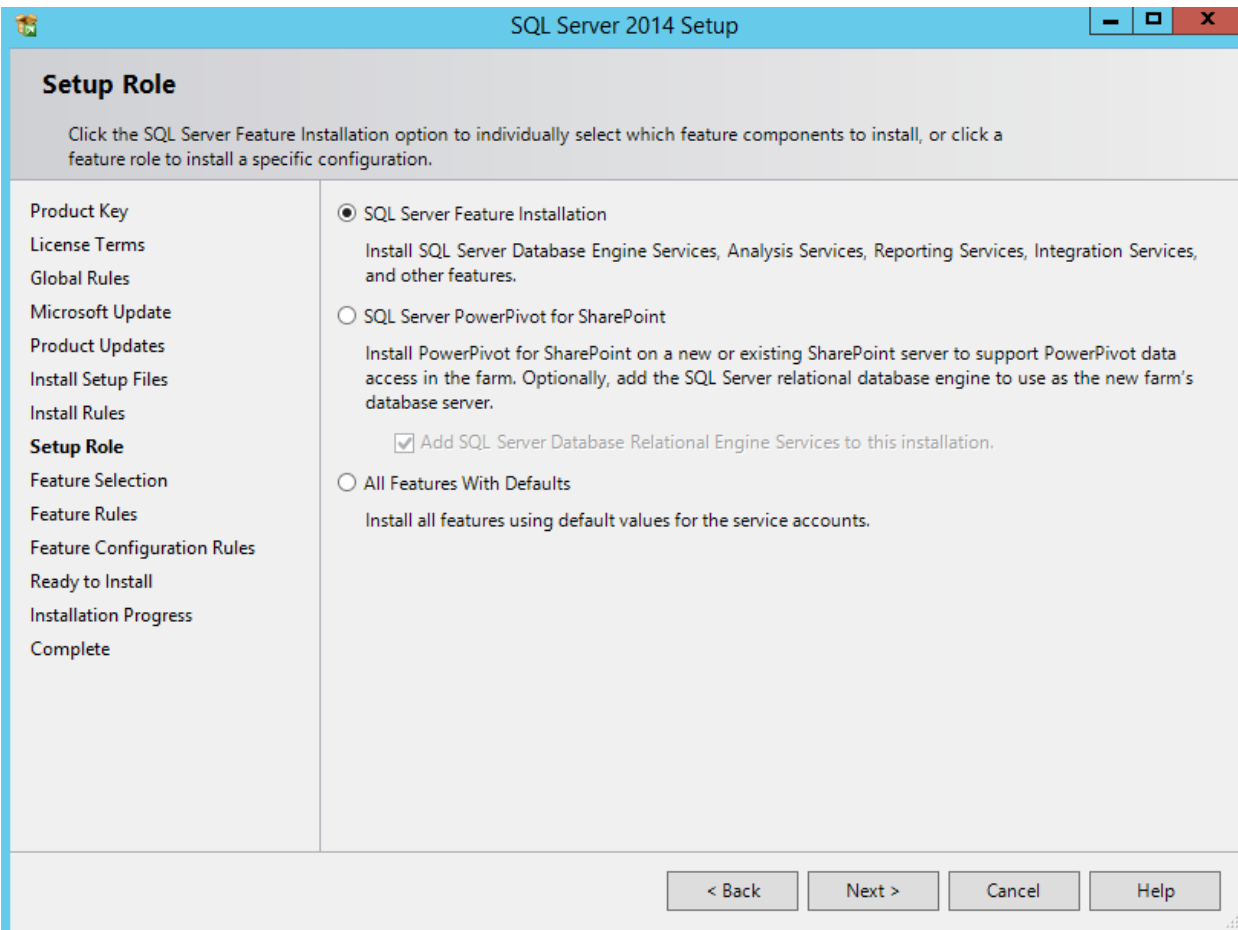
Operation completed. Passed: 5. Failed 0. Warning 2. Skipped 0.

Hide details << Re-run

[View detailed report](#)

	Rule	Status
✓	Fusion Active Template Library (ATL)	Passed
✓	Previous releases of SQL Server 2008 Business Intelligence Devel...	Passed
✓	Consistency validation for SQL Server registry keys	Passed
⚠	Computer domain controller	Warning
✓	Microsoft .NET Application Security	Passed
⚠	Windows Firewall	Warning
✓	Block install when Microsoft SQL Server 2014 CTP1 is present.	Passed

< Back Next > Cancel Help



SQL Server 2014 Setup

Feature Selection

Select the Developer features to install.

Product Key

License Terms

Global Rules

Microsoft Update

Product Updates

Install Setup Files

Install Rules

Setup Role

Feature Selection

Feature Rules

Instance Configuration

Server Configuration

Database Engine Configuration

Analysis Services Configuration

Reporting Services Configuration

Feature Configuration Rules

Ready to Install

Installation Progress

Complete

Features:

Instance Features

- Database Engine Services
- SQL Server Replication
- Full-Text and Semantic Extractions for Search
- Data Quality Services
- Analysis Services
- Reporting Services - Native

Shared Features

- Reporting Services - SharePoint
- Reporting Services Add-in for SharePoint Products
- Data Quality Client
- Client Tools Connectivity
- Integration Services
- Client Tools Backwards Compatibility
- Client Tools SDK
- Documentation Components
- Management Tools - Basic
- Management Tools - Complete
- Distributed Replay Controller
- Distributed Replay Client
- SQL Client Connectivity SDK
- Master Data Services

Redistributable Features

Select All Unselect All

Instance root directory: ...

Shared feature directory: ...

Shared feature directory (x86): ...

Feature description:

The configuration and operation of each instance feature of a SQL Server instance is isolated from other SQL Server instances. SQL Server instances can operate side-by-side on the same computer.

Prerequisites for selected features:

Already installed:

- Windows PowerShell 2.0
- Microsoft .NET Framework 4.0

To be installed from media:

- Microsoft Visual Studio 2010 Redistributables
- Microsoft Visual Studio 2010 Shell
- Microsoft Visual Studio Tools for Applications 3.0

Disk Space Requirements

Drive C: 4415 MB required, 31656 MB available

< Back Next > Cancel Help

SQL Server 2014 Setup

Instance Configuration

Specify the name and instance ID for the instance of SQL Server. Instance ID becomes part of the installation path.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Setup Role
- Feature Selection
- Feature Rules
- Instance Configuration**
- Server Configuration
- Database Engine Configuration
- Analysis Services Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Default instance
 Named instance:

Instance ID:

SQL Server directory: C:\Program Files\Microsoft SQL Server\MSSQL12.MSSQLSERVER

Analysis Services directory: C:\Program Files\Microsoft SQL Server\MSAS12.MSSQLSERVER

Reporting Services directory: C:\Program Files\Microsoft SQL Server\MSRS12.MSSQLSERVER

Installed instances:

Instance Name	Instance ID	Features	Edition	Version

< Back
Next >
Cancel
Help

Server Configuration

Specify the service accounts and collation configuration.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Setup Role
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration**
- Database Engine Configuration
- Analysis Services Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Service Accounts Collation

Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	QUERYWORKS\sqlagent	●●●●●●●●	Manual
SQL Server Database Engine	QUERYWORKS\sqlservice	●●●●●●●●	Automatic
SQL Server Analysis Services	QUERYWORKS\sqlservice	●●●●●●●●	Automatic
SQL Server Reporting Services	QUERYWORKS\sqlservice	●●●●●●●●	Automatic
SQL Server Integration Services 12.0	QUERYWORKS\sqlservice	●●●●●●●●	Automatic
SQL Full-text Filter Daemon Launcher	NT Service\MSSQLFDLauncher		Manual
SQL Server Browser	NT AUTHORITY\LOCAL SERVICE		Disabled

< Back Next > Cancel Help

Database Engine Configuration

Specify Database Engine authentication security mode, administrators and data directories.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Setup Role
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Analysis Services Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | FILESTREAM

Specify the authentication mode and administrators for the Database Engine.

Authentication Mode _____

- Windows authentication mode
- Mixed Mode (SQL Server authentication and Windows authentication)

Specify the password for the SQL Server system administrator (sa) account. _____

Enter password: _____

Confirm password: _____

Specify SQL Server administrators _____

- QUERYWORKS\Administrator (Administrator)

SQL Server administrators have unrestricted access to the Database Engine.

Add Current User | Add... | Remove

< Back | Next > | Cancel | Help

Database Engine Configuration

Specify Database Engine authentication security mode, administrators and data directories.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Setup Role
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration**
- Analysis Services Configuration
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories | FILESTREAM

Enable FILESTREAM for Transact-SQL access

Enable FILESTREAM for file I/O access

Windows share name:

Allow remote clients access to FILESTREAM data

< Back

Next >

Cancel

Help

SQL Server 2014 Setup

Analysis Services Configuration

Specify Analysis Services server modes, administrators, and data directories.

- Product Key
- License Terms
- Global Rules
- Microsoft Update
- Product Updates
- Install Setup Files
- Install Rules
- Setup Role
- Feature Selection
- Feature Rules
- Instance Configuration
- Server Configuration
- Database Engine Configuration
- Analysis Services Configuration**
- Reporting Services Configuration
- Feature Configuration Rules
- Ready to Install
- Installation Progress
- Complete

Server Configuration | Data Directories

Server Mode:

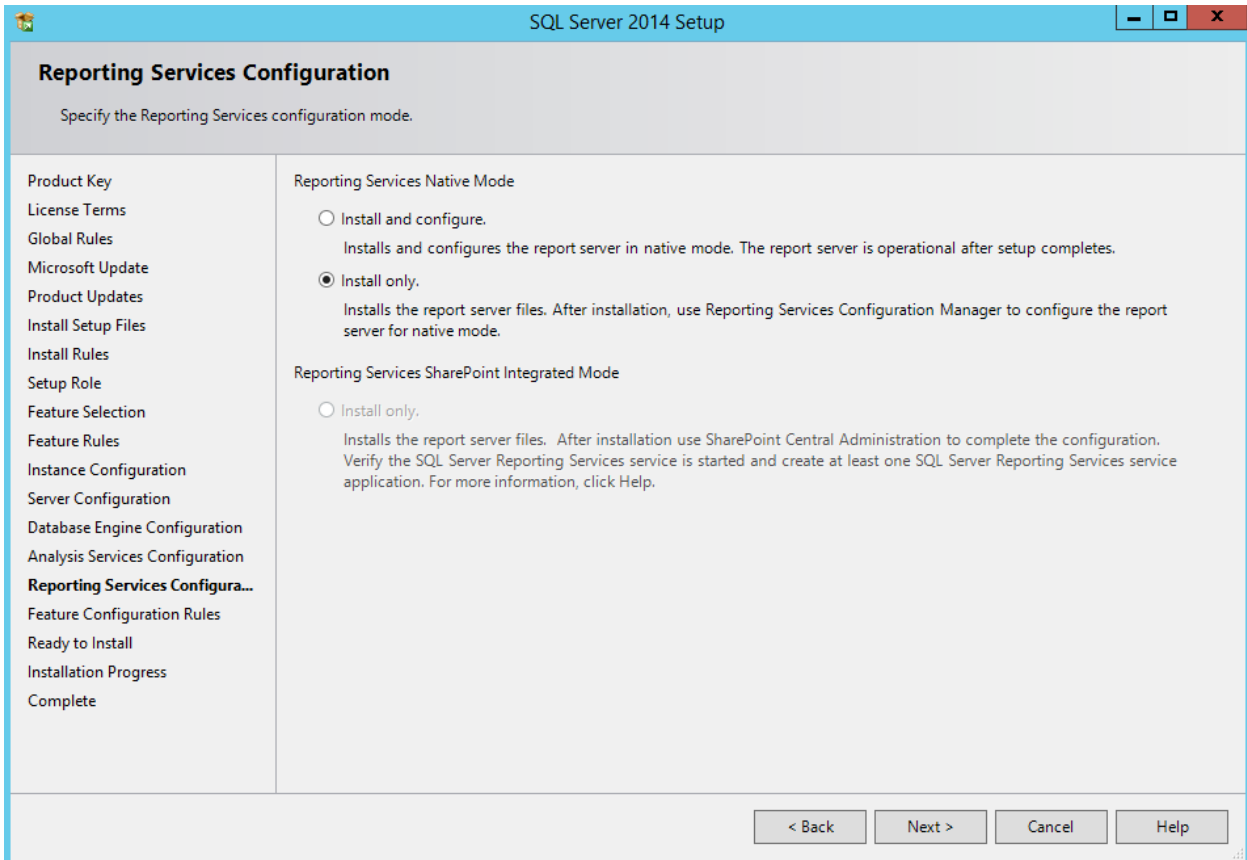
- Multidimensional and Data Mining Mode
- Tabular Mode

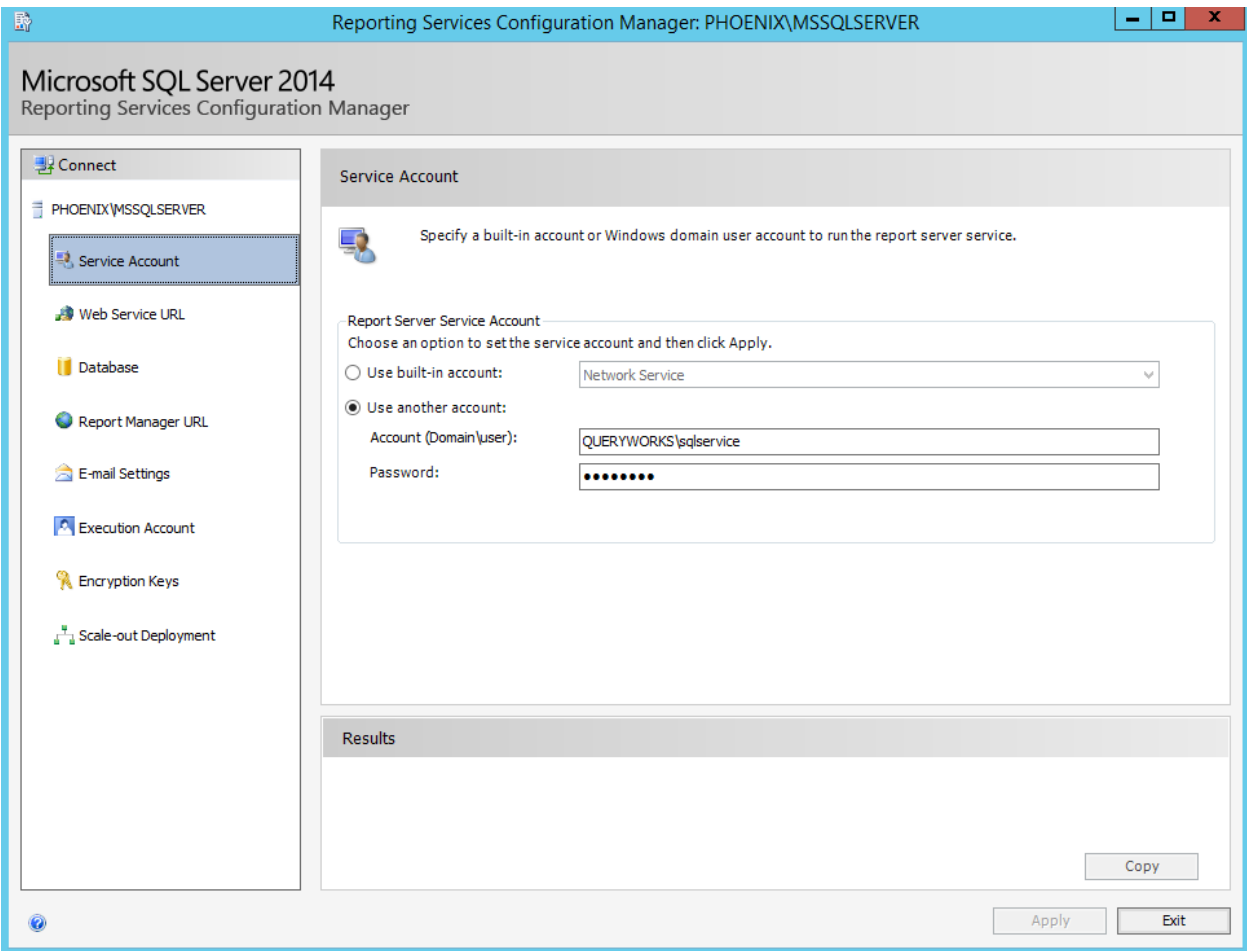
Specify which users have administrative permissions for Analysis Services.

QUERYWORKS\Administrator (Administrator)	Analysis Services administrators have unrestricted access to Analysis Services.
--	---

Add Current User Add... Remove

< Back Next > Cancel Help





Reporting Services Configuration Manager: PHOENIX\MSSQLSERVER


Microsoft SQL Server 2014 Reporting Services Configuration Manager

Connect

- PHOENIX\MSSQLSERVER
- Service Account
- Web Service URL**
- Database
- Report Manager URL
- E-mail Settings
- Execution Account
- Encryption Keys
- Scale-out Deployment

Web Service URL

Configure a URL used to access the Report Server. Click Advanced to define multiple URLs for a single Report Server instance, or to specify additional parameters on the URL.

 Report Server Web Service is not configured. Default values have been provided to you. To accept these defaults simply press the Apply button, else change them and then press Apply.

Report Server Web Service Virtual Directory

Virtual Directory:

Report Server Web Service Site identification

IP Address:

TCP Port:

SSL Certificate:

SSL Port:

Report Server Web Service URLs

URLs:

Results

Reporting Services Configuration Manager: PHOENIX\MSSQLSERVER

Microsoft SQL Server 2014

Reporting Services Configuration Manager

- Connect
 - PHOENIX\MSSQLSERVER
 - Service Account
 - Web Service URL
 - Database**
 - Report Manager URL
 - E-mail Settings
 - Execution Account
 - Encryption Keys
 - Scale-out Deployment

Report Server Database

Reporting Services stores all report server content and application data in a database. Use this page to create or change the report server database or update database connection credentials.

Current Report Server Database

Click Change database to select a different database or create a new database in native or SharePoint integrated mode.

SQL Server Name:
Database Name:
Report Server Mode:

Change Database

Current Report Server Database Credential

The following credentials are used by the report server to connect to the report server database. Use the options below to choose a different account or update a password.

Credential:
Login:
Password:

Change Credentials

Results

Copy

Apply Exit

Report Server Database Configuration Wizard

Change Database

Choose whether to create or configure a report server database.

Action	Select one of the following options to create an empty report server database or select an existing report server database that has content you want to use.
Database Server	
Database	
Credentials	
Summary	
Progress and Finish	

Select a task from the following list:

- Create a new report server database.
- Choose an existing report server database.

Previous Next Cancel

Report Server Database Configuration Wizard

Change Database

Choose whether to create or configure a report server database.

Action	Choose a local or remote instance of a SQL Server Database Engine and specify credentials that have permission to connect to that server.
Database Server	
Database	
Credentials	
Summary	
Progress and Finish	

Connect to the Database Server:

Server Name: PHOENIX

Authentication Type: Current User - Integrated Security

Username: QUERYWORKS\Administrator

Password:

Test Connection

Previous Next Cancel

Report Server Database Configuration Wizard X

Change Database
Choose whether to create or configure a report server database.

<ul style="list-style-type: none"> Action Database Server Database <li style="background-color: #e0e0e0;">Credentials Summary Progress and Finish 	<p>Specify the credentials of an existing account that the report server will use to connect to the report server database. Permission to access the report server database will be automatically granted to the account you specify.</p> <p>Credentials:</p> <p>Authentication Type: <input type="text" value="Service Credentials"/></p> <p>User name: <input type="text" value="QUERYWORKS\sqlservice"/></p> <p>Password: <input type="password"/></p>
--	--

Report Server Database Configuration Wizard X

Change Database
Choose whether to create or configure a report server database.

<ul style="list-style-type: none"> Action Database Server Database Credentials <li style="background-color: #e0e0e0;">Summary Progress and Finish 	<p>The following information will be used to create a new report server database. Verify this information is correct before you continue.</p> <p>SQL Server Instance: PHOENIX</p> <p>Report Server Database: ReportServer</p> <p>Temp Database: ReportServerTempDB</p> <p>Report Server Language: English (United States)</p> <p>Report Server Mode: Native</p> <p>Authentication Type: Service Account</p> <p>Username: QUERYWORKS\sqlservice</p> <p>Password: *****</p>
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Reporting Services Configuration Manager: PHOENIX\MSSQLSERVER

Microsoft SQL Server 2014 Reporting Services Configuration Manager

- Connect
 - PHOENIX\MSSQLSERVER
 - Service Account
 - Web Service URL
 - Database**
 - Report Manager URL
 - E-mail Settings
 - Execution Account
 - Encryption Keys
 - Scale-out Deployment

Report Server Database

Reporting Services stores all report server content and application data in a database. Use this page to create or change the report server database or update database connection credentials.

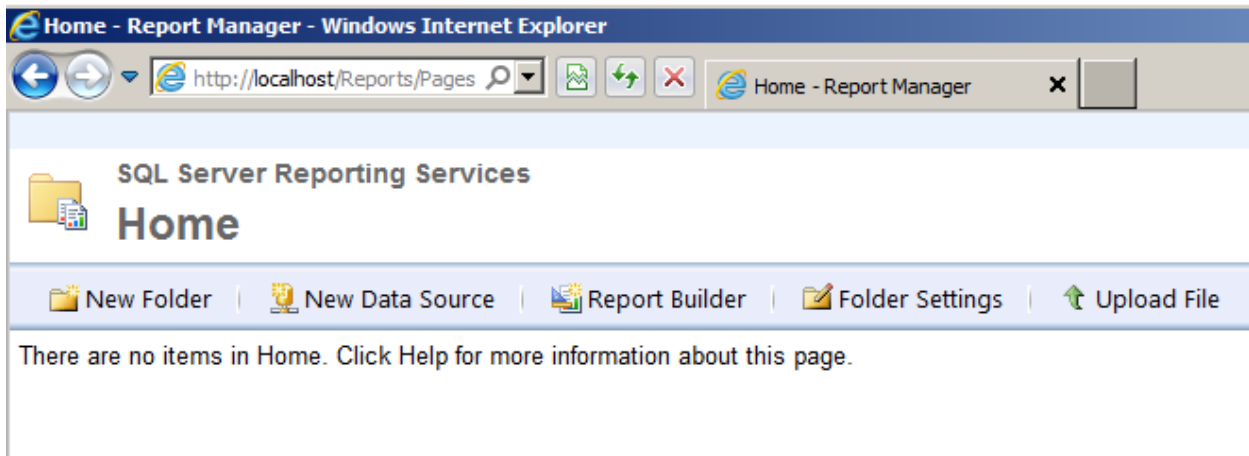
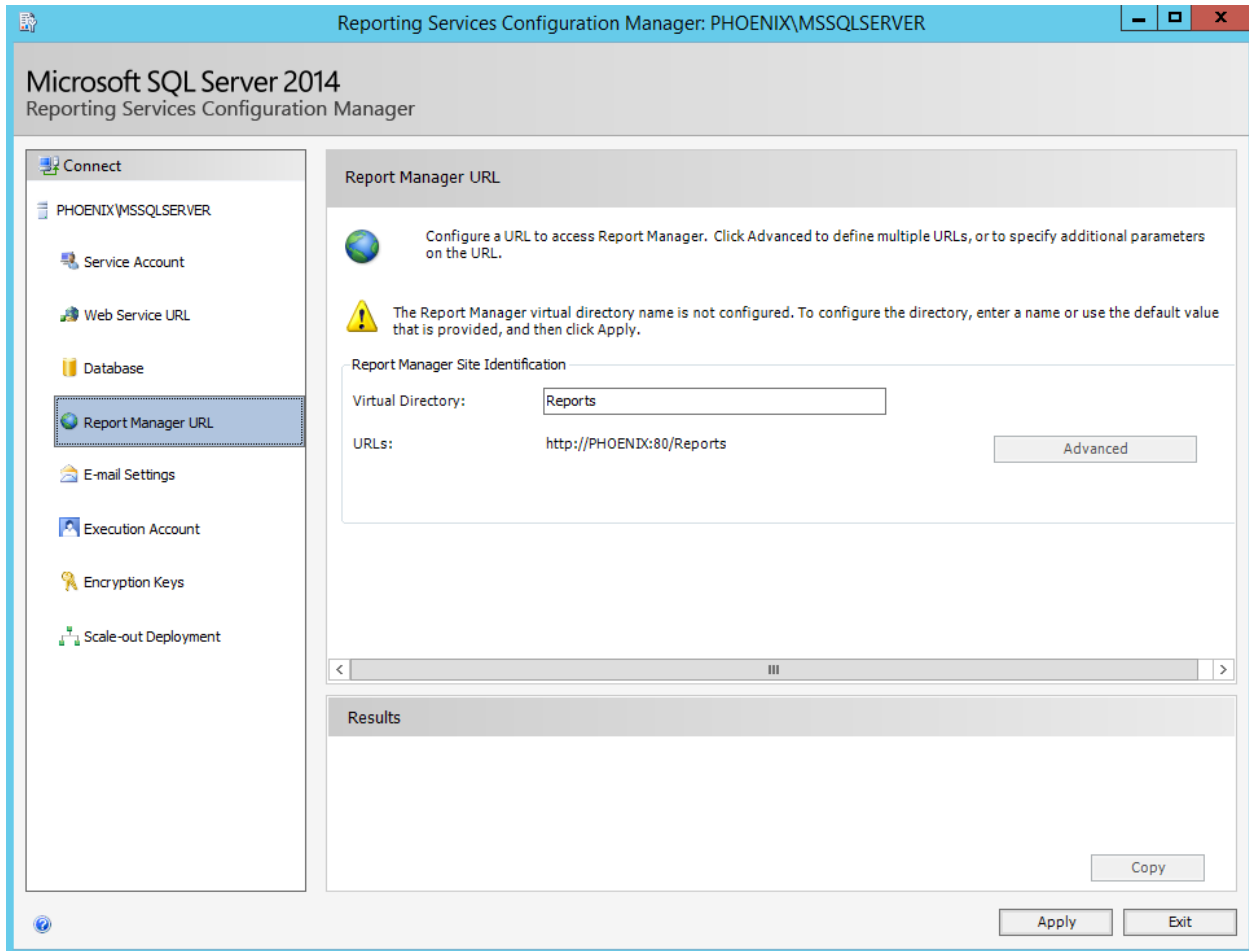
Current Report Server Database
Click Change database to select a different database or create a new database in native or SharePoint integrated mode.

SQL Server Name:	PHOENIX
Database Name:	ReportServer
Report Server Mode:	Native

Current Report Server Database Credential
The following credentials are used by the report server to connect to the report server database. Use the options below to choose a different account or update a password.

Credential:	Service Account
Login:	QUERYWORKS\sqlservice
Password:	*****

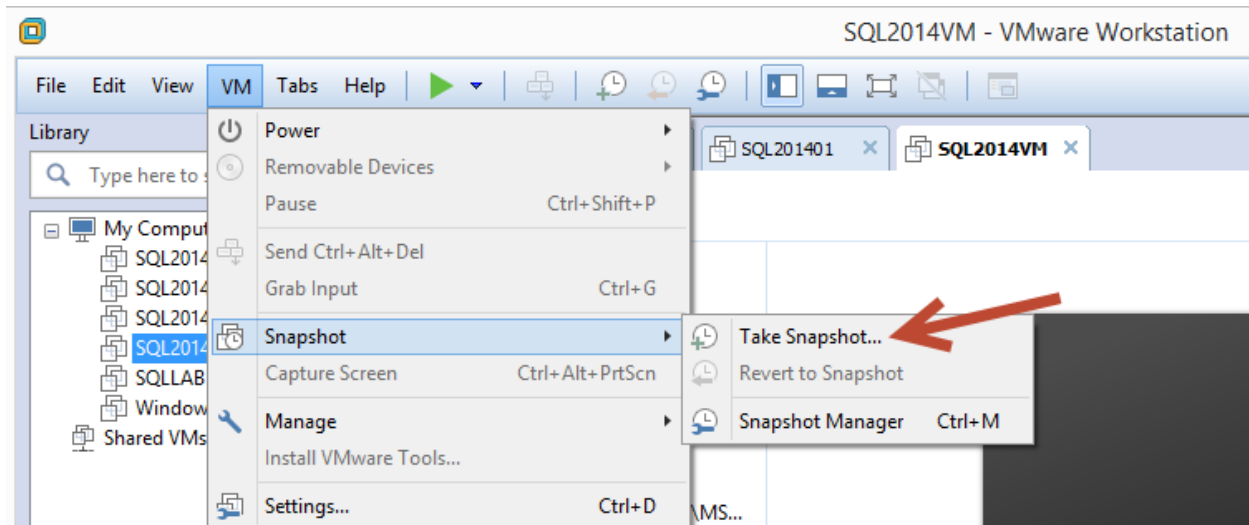
Results



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) 2015 Microsoft Corporation. All rights reserved.

PS C:\Users\Administrator> $host.version

Major  Minor  Build  Revision
-----
5      0     10105  0
```



SQL2014VM - VMware Workstation

Help | [Icons]

Home x SQL2014DC x SQL201401 x **SQL2014VM** x

SQL2014VM

▶ Power on this virtual machine
🔧 Edit virtual machine settings

▼ **Devices**

🖥️ Memory	4 GB
👤 Processors	1
💾 Hard Disk (SCSI)	40 GB
📀 CD/DVD (SATA)	Using file C:\MS...
🌐 Network Adapter	NAT
🔌 USB Controller	Present
🔊 Sound Card	Auto detect
🖨️ Printer	Present
🖥️ Display	Auto detect

SQL2014VM - Take Snapshot

⌚ Taking a snapshot lets you preserve the state of the virtual machine so that you can return to the same state later.

Name:

Description: