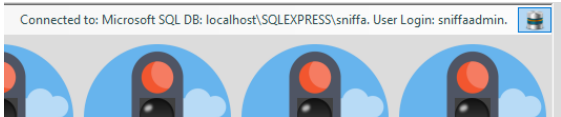
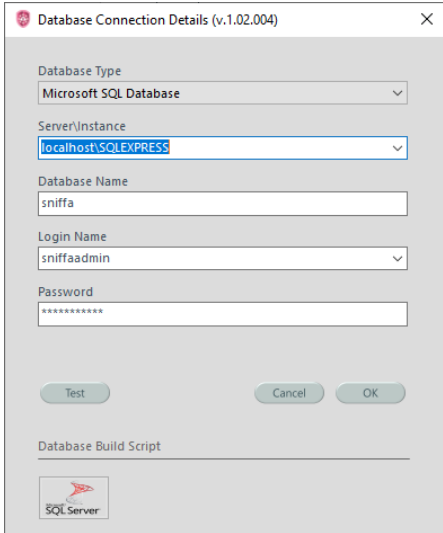
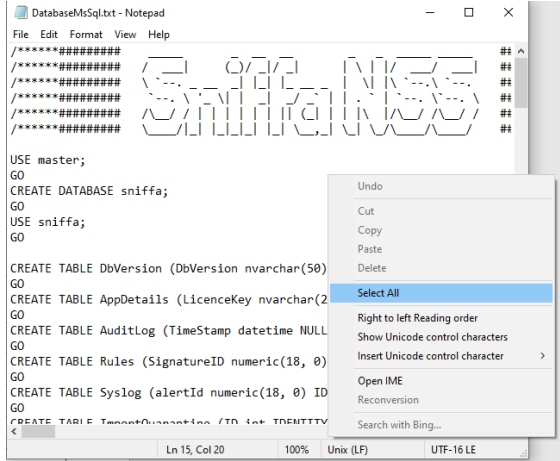
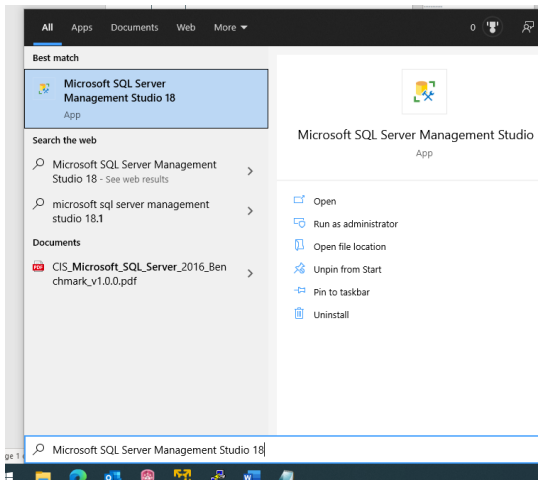
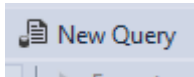
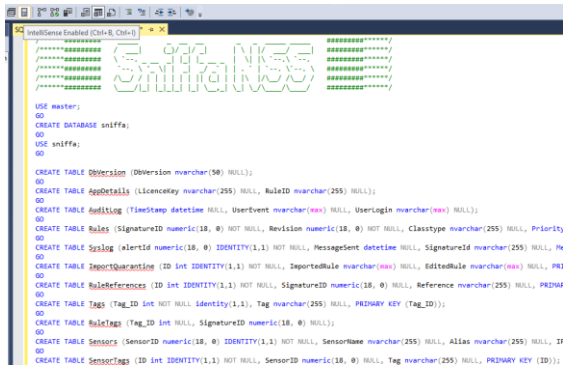


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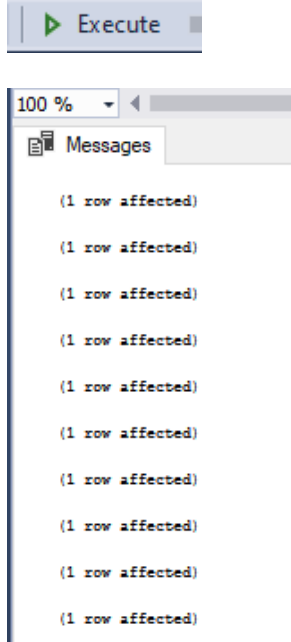
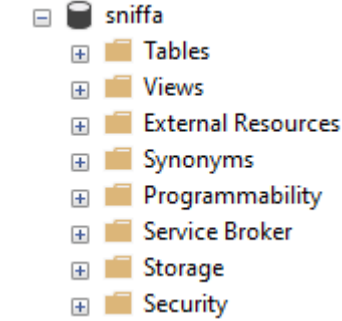
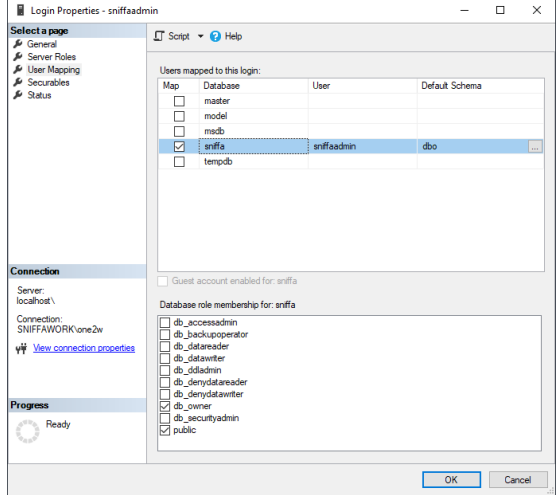
Building a Sensor Manager Application Backend Database

Serial	Instruction
	<p>Overview</p> <p>The Sensor Manager Application and the Web Portal Application must be connected to a backend database to operate correctly.</p> <p>The backend database can be one of 3 types:</p> <ul style="list-style-type: none"> • Microsoft™ SQL Server. • Microsoft™ SQL Server Express. • Microsoft™ SQL Server Express LocalDB (included with Sensor Manager Application). <p>The Sensor Manager Application and Web Portal Application can switch between several databases, but can only connect to one database at any one time.</p> <p>Multiple Sensor Manager Applications can connect to a backend database at the same time from different Microsoft™ Windows host machines.</p> <p>This runbook includes the tasks to be completed, to build a Sensor Manager Application backend database onto a Microsoft™ SQL Server Database.</p>
<p>1.</p>	<p>Start the Sensor Manager Application.</p> <p>Click on the Admin Panel.</p> <p>Click the database icon at the top-right of the menu bar.</p> 
<p>2.</p>	<p>Click on the button in the bottom left marked with 'SQL Server'.</p> 

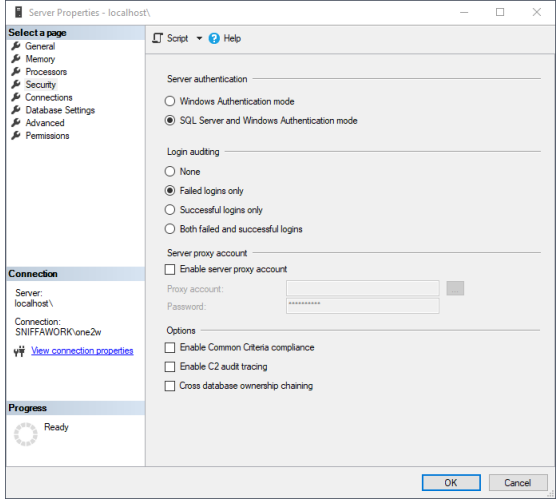
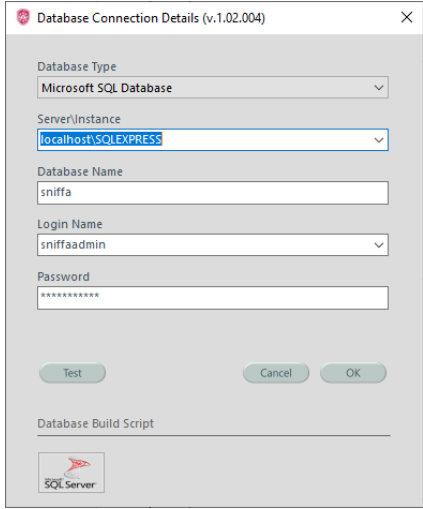
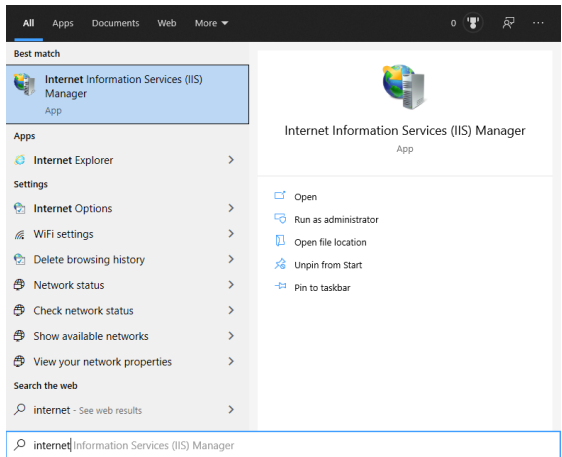
Sniffa Runbook Building a Sensor Manager Application Backend Database

<p>3.</p>	<p>Select all of the text.</p> <p>Right click and copy all of the text.</p> <p><i>Note: Alternatively click Ctl + A followed by Ctl + C</i></p>	
<p>4.</p>	<p>Open Microsoft™ SQL Server Management Studio on the Windows™ host machine you wish to build the SQL database onto.</p>	
<p>5.</p>	<p>Click on the 'New Query' button.</p>	
<p>6.</p>	<p>Paste the text from the clipboard to the 'New Query' window.</p> <p><i>Note: You can paste text using Ctl + V</i></p>	

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<p>7.</p>	<p>Click on the 'Execute' button.</p> <p>Ensure to get no Errors recorded in the 'Messages' window.</p>	
<p>8.</p>	<p>Check that database appears in the instance tree.</p>	
<p>9.</p>	<p>Add New Login and ensure that the user mapping is set to 'db_owner' for the database that has just been created.</p>	

Sniffa Runbook Building a Sensor Manager Application Backend Database

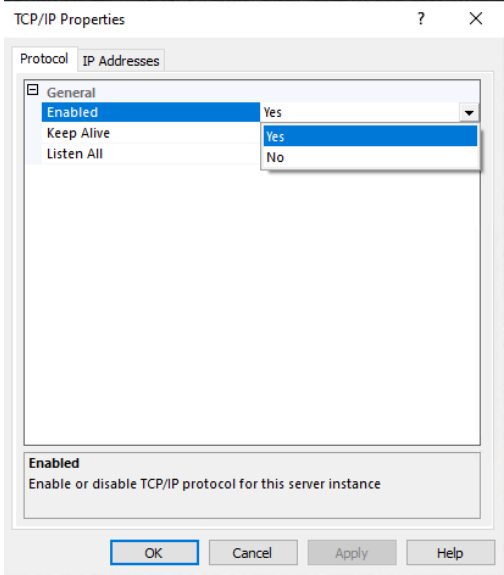
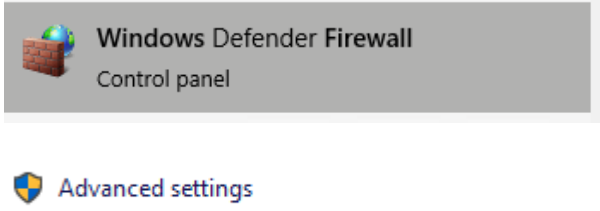
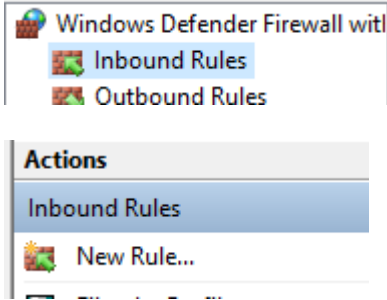
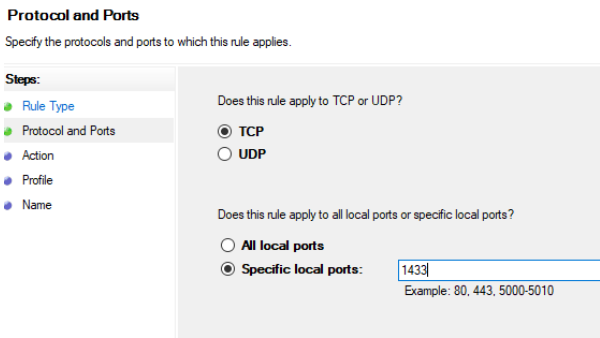
<p>10.</p>	<p>Ensure that the database Server Authentication is set to 'SQL Server and Windows Authentication'.</p>	
<p>11.</p>	<p>Connect to the database using the Sensor Manager Application and valid Database Login credentials.</p> <p><i>Note:</i> For MS SQL Server use: Localhost\ Without the instance name.</p> <p>For MS SQL Server Express use something similar to: Localhost\SQLEXPRESS</p> <p>For MS SQL Server Express LocalDB use: LocalDB From the drop down list.</p>	
<p>12.</p>	<p>Configurations for the Web Portal Application.</p> <p>Start IIS from the Windows™ Start Icon.</p>	

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Building a Sensor Manager Application Backend Database

13.	Select the Sniffa Web Site from the tree on the left hand side.	
8.	Select 'Connection Strings' from the ASP.NET menu item icons.	
9.	<p>Add a Connection String that matches the environment.</p> <p>Using a MS SQL Server: <code>Server=localhost\; Database=sniffa; User Id=sniffaadmin; Password=*****;</code></p> <p>Using a MS SQL Server Express: <code>Server=localhost\SQLEXPRESS; Database=sniffa; User Id=sniffaadmin; Password=*****;</code></p> <p>Using the MS SQL Server Express LocalDB: <code>Data Source=(localdb)\MSSQLLocalDB; AttachDbFileName=C:\Program Files (x86)\SniffaServer\sniffa.mdf; Initial Catalog=sniffa;</code></p> <p><i>Note: input correct password instead of *****.</i></p>	
10.	<p>For Remote Connection (if required)</p> <p>Open SQL Server Configuration Manager from the Windows Start Menu.</p>	
11.	<p>Select Protocols for MSSQLSERVER.</p> <p>Select TCP/IP.</p>	

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 Building a Sensor Manager Application Backend Database

<p>12.</p>	<p>Select the tab marked 'Protocol'.</p> <p>Select 'Yes' from the list alongside the Field marked 'Enabled'.</p> <p>Click on the button marked 'OK' to save.</p>	
<p>13.</p>	<p>Open Windows Defender Firewall from the Windows Start Menu.</p> <p>Click on the Menu Item marked 'Advance settings' from the left hand menu.</p>	
<p>14.</p>	<p>Select 'Inbound Rules' from the left hand menu.</p> <p>Select 'New Rule...' from the right hand menu.</p>	
<p>15.</p>	<p>Add a new rule to allow port TCP 1433.</p> <p>Give the rule a unique name and click the button marked 'Finish' to save and enable the rule.</p>	
<p>16.</p>	<p>End of Runbook.</p>	