

Monitorpack Web Analytics installation

INSTALLATION & CONFIGURATION WEB ANALYTICS – V 1.4 SUPPORT TECK SYSTEM SOFT LLC 2024

Contents

Information
Downloads
Account information4
Source folders in target location
Creating the Windows account
Installing SQL Server
SSMS Installation7
SSRS installation
Web service URL9
Database
Web portal URL
Installing Visual Studio 2022
Add-on to manage RDL reports
Summary of points to check
SQL Server Configuration 2022 22
SQL Server Security
Add Windows user in SQL Server
Create a SQL account
SQL User Mapping
Windows account mapping
Configuring protocols

Create SQL firewall Rules	
Create a scheduled task	
SSRS Configuration	
Deploy RDL in Visual Studio	
Reporting Service folder location	
Web portal permission	
Connection	
Access your Web Analytics Monitorpack	

SQL and SSRS deployment for Monitor Pack Web Analytics

Information

Monitorpack web Analytics is an optional part of the Monitorpack solution, it is the reporting part which is not essential to make the monitoring work.

SSRS can also be replaced by Power BI report Server which is the latest Microsoft version.

Monitorpack supervision requires installing Monitorpack Discovery, purchasing a subscription and integrating the license number into the Monitorpack Discovery setting interface then installing the Monitorpack Guard and Monitor pack SNMP modules which will work on the same machine provided that Monitorpack Discovery has a valid license.

The configuration provided by Monitorpack in this document uses two accounts which are adapted to the scripts provided in the ReportsMonitorpack.zip folder, you have the freedom to modify its values by modifying the basic scripts provided but be sure you have understood the entire operation method.

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Our engineers can provide you with on-site or remote consultations for remote services we can charge per half day, you can contact us about this from our websites.

In this document we present to you the solution allowing you to only use Express versions, completely free.

This version is configured and works only with SQL instances finishing by \SQLEXPRESS, it is therefore very important to check if an SQL EXPRESS instance is not already present on the machine concerned.

The configuration proposed below can be deployed on a Windows 10 or 11 machine in a workgroup on which will be installed:

- SQL Express 2022 with a dedicated instance for Monitorpack data consolidation,
- Microsoft SQL Server management studio with Azure data studio
- SQL Server Reporting Services 2022 express version
- As well as Visual Studio Community 2022 free version to which we will add a specific module allowing you to manage RDL files also called "paged reports" (.rdl).

Note: you can integrate paginated reports in SQL but also in Power BI, Azure SQL, etc. To do so, please consult the TechNet Microsoft documentation.

Downloads

You will need to download the following:

- Download Microsoft SQL Express 2022,
- Download Microsoft SQL Server 2022 Reporting Services,
- Download Visual Studio Express 2022 the version used for this procedure is 17.7.6,
- Donwload last version of Microsoft.DataTools.ReportingServices.vsix,

- Download Microsoft SQL Server management Studio with Azure Studio the version used for this procedure is 19.1,
- Download the ReportsMonitorpack.zip folder from the link provided to you by email with the license when you subscribe to Monitorpack Discovery.

Account information

The provided scripts use the following accounts:

- The Windows account named ReportsMonitorpack,
- The SQL account named SQL_Montorpack.
 - 1. The SQL account is used to write to the SQL database from the Monitorpack Guard console. This is where you will need to provide the account login and password as well as the instance and name of the database. data, understanding that your SQL instance will be determined by the name of your machine and the SQL version you are going to use.
 - 2. The Windows account will be used to connect to the SQL Server Reporting Services portal provided by Monitorpack.

Source folders in target location

Here is an overview of the folders and files provided to you in the zip named "ReportsMonitorpack .zip":

Date du dernier enregist	Modifié le	Nom
08/03/2024 10:44	08/03/2024 10:44	Alarms
17/04/2024 12:01	17/04/2024 12:01	ssrs_projects
17/04/2024 09:58	17/04/2024 09:58	Monitorpack_GuardReportsMonitorpack.sql

- Copy the Alarms directory to the C:\Program Files\Microsoft SQL Server\
- Copy the ssrs_projects directory to the C:\Program Files\Microsoft SQL Server Reporting Services\ or » ou « C:\Program Files\Microsoft Power BI Report Server » for Power BI server version.
- Copy the SQL_Alarms_Request_ReportsMonitorpack.bat file in the C:\Program Files\Microsoft SQL Server\Alarms\

Creating the Windows account

1. Create the ReportsMonitorpack account on the Windows 10/11 station in Computer Management.

Nom	Nom complet	Description
🜉 Administrator		Built-in account for administering
🛃 DefaultAccount		A user account managed by the s
🛃 Guest		Built-in account for guest access t
MonitorPack		
🜉 ReportsMonitorpack	ReportsMonitorpack	ReportsMonitorpack
🛃 WDAGUtilityAccount		A user account managed and use

2. Configure the account as follows: Password never expires and disable the option: The user must change the password at the next logon.

Installing SQL Server

Microsoft® SQL Server® 2022 Express

Microsoft® SQL Server® 2022 Express is a powerful and reliable free data management system that delivers a rich and reliable data store for lightweight Web Sites and desktop applications.

Important! Selecting a language belo	ow will dynamic	ally change:	the complete page conte	ent to that language.	
Select language	English	~	Download		

- 1. Select basic installation
- 2. Keep all values by default
- 3. Choose Basic

SSMS Installation

Microsoft SQL Server management studio is used to manage SQL Server server. Run the default installation.

RELEASE 19.1

Microsoft SQL Server Management Studio with Azure Data Studio

Setup Completed

All specified components have been installed successfully.

SSRS installation

SQL Server Reporting Services will be used to publish the reports by accessing them through a web interface requiring authentication with the previously created Windows account.

Microsoft SQL Server 2022 Reporting Services

SQL Server Reporting Services is a server-based reporting platform that provides comprehensive reporting functionality.

Important! Selecting a language below will dynamically change the complete page content to that language.

 \sim

Select language

English

Download

- 1. Choose the express version
- 2. Launch the Reporting Services console

Report Server Connection Confi	guration	×
Report Server Conne	ction	
Indiquez un nom de serveur, clio une instance du serveur de rapp	quez sur le bouton Rechercher, puis sél orts à configurer.	ectionnez
Nom du serveur :	DESKTOP-MPSSRS	Rechercher
Instance du serveur de rapports :	SSRS	~
©	Se con	necter Annuler

Web service URL

This is the address that will be used to generate and update all paginated reports from Visual Studio.

Install Power BI Server instead of SQL Server reporting services the report server instance will be called PBIRS

	~
tion	
the Find button, and select a report server	
SRV-MONITORPACK	Find
PBIRS	\sim
Connect	Cancel
	tion the Find button, and select a report server SRV-MONITORPACK PBIRS Connect

1. Click on apply to create the web services

Configurez une URL URL pour une seule	utilisée pour accéder au serveur de rapports. Cliquez sur C instance du serveur de rapports ou pour spécifier d'autres	Options avancées pour définir plusieurs paramètres sur l'URL.
simplement sur le bouto	Server n'est pas configure. Des valeurs par defaut vous ont in Appliquer ; sinon, modifiez-les, puis appuyez sur Appliqu	ete fournies. Pour les accepter, appuyez ier.
Répertoire virtuel du service W	eb Report Server	
Répertoire virtuel :	ReportServer	
Identification du site du service	Web Report Server	
Adresse IP :	Assigné (recommandé) V	
Port TCP :	80	
Certificat HTTPS :	(Non sélectionné) \checkmark	
Port HTTPS :		Options avancées
ésultats		
		Copier
		Appliquer Quitter

Database

1. Create the Reporting Services database

2. Select create new report server database



- 1. Correctly define the SQL instance <your machine name\SQLEXPRESS> to test the connection.
- 2. Select create new report server database



2. Set your language and keep the default service account.

Assistant de configuration de l	a base de données du serveur de rapp	ports	×
Modifier la base de doi Choisissez de créer ou de conf	NNÉES igurer une base de données de serveur	de rapports.	
Action Serveur de base de données Base de données	Indiquez les informations d'identifica utilisera pour se connecter à sa base données du serveur de rapports sera spécifiez.	ation d'un compte existant que le serveur de rappo e de données. L'autorisation d'accéder à la base (a automatiquement accordée au compte que vous	rts Je
Informations d'identification Résumé État d'avancement et fin	Informations d'identification : Type d'authentification : Nom d'utilisateur : Mot de passe :	Informations d'identification du service NT SERVICE\SQLServerReportingService	>
0	[Précédent Suivant A	Annuler

Modifier la base de données

Choisissez de créer ou de configurer une base de données de serveur de rapports.

Action	Les informations suivantes seront utilisées p	our créer une nouvelle base de données de
Serveur de base de données	serveur de rapports. Vérifiez qu'elles sont co	rrectes avant de continuer.
Base de données	Instance SQL Server	DESKTOP-MPSSRS/SQLEXPRESS
Informations d'identification	Base de données du serveur de rapports :	ReportServer
Résumé	Base de données temporaire :	ReportServerTempDB
État d'avancement et fin	Langue du serveur de rapports :	Anglais (États-Unis)
	Mode du serveur de rapports :	Natif
	Type d'authentification :	Compte de service
	Nom d'utilisateur :	NT SERVICE\SQLServerReportingServic
	Mot de passe :	
0	Préc	sédent Suivant Annuler

Base de données du serveur de rapp	orts	
Le serveur de rapports stocke données. Utilisez cette page p jour les informations d'identif	e tout le contenu du serveur de rapports et les do pour créer ou changer la base de données du ser ication de la connexion à la base de données.	nnées d'application dans une base de veur de rapports, ou pour mettre à
Base de données du serveur de rapports ac	tuel	
Cliquez sur Changer de base de données	s pour sélectionner une base de données différe	nte ou en créer une.
Nom du serveur SQL Server : Nom de la base de données : Mode du serveur de rapports :	DESKTOP-MPSSRS\SQLEXPRESS ReportServer Natif	
		Modifier la base de données
Les informations d'identification suivant les options ci-dessous pour choisir un a Informations d'identification : Connexion : Mot de passe :	es sont utilisées par le serveur de rapports pour s utre compte ou mettre à jour un mot de passe. Compte de service NT SERVICE\SQLServerReportingServices ******	se connecter à sa base de données. Utilisez Modifier les informations d'identification
Résultats		
15:34:23.0774 Arrêt du serveur de rap	ports « SQLServerReportingServices » sur DESK	TOP-MPSSRS.
15:34:24.0778 Démarrage du serveur of	de rapports « SQLServerReportingServices » sur	DESKTOP-MPSSRS.
La tâche s'est terminée avec succès.		Copier

Web portal URL

This is the URL address that will be used to access the Web Analytics report by the end user.

1. Click on apply to create the web services.

Configurez une UR URL pour une seul	utilisée pour accéder au serveur de rapports. Cliquez sur Options avancées pour définir plusieurs instance du serveur de rapports ou pour spécifier d'autres paramètres sur l'URL.
Répertoire virtuel du service V	eb Report Server
Répertoire virtuel :	ReportServer
Identification du site du service	Web Report Server
Adres IP :	Assigné (recommandé) \sim
Port TCP :	80
Certificat HTTPS :	(Non sélectionné) V
Port HTTPS :	Options avancées
URL du service Web Report Se	ver
URL :	http://DESKTOP-MPSSRS:80/ReportServer
URL :	http://DESKTOP-MPSSRS:80/ReportServer
URL :	http://DESKTOP-MPSSRS:80/ReportServer
ésultats 15:38:12.9215 Réservation	http://DESKTOP-MPSSRS:80/ReportServer de l'URL http://+:80
ésultats 15:38:12.9215 Réservation 15:38:13.5008 Arrêt du ser	http://DESKTOP-MPSSRS:80/ReportServer de l'URL http://+:80 eur de rapports « SQLServerReportingServices » sur DESKTOP-MPSSRS.
Lésultats 15:38:12.9215 Réservation 15:38:13.5008 Arrêt du ser 15:38:14.3589 Démarrage o	http://DESKTOP-MPSSRS:80/ReportServer de l'URL http://+:80 eur de rapports « SQLServerReportingServices » sur DESKTOP-MPSSRS. u serveur de rapports « SQLServerReportingServices » sur DESKTOP-MPSSRS.
Lésultats 15:38:12.9215 Réservation 15:38:13.5008 Arrêt du ser 15:38:14.3589 Démarrage o La tâche s'est terminée avec	http://DESKTOP-MPSSRS:80/ReportServer de l'URL http://+:80 eur de rapports « SQLServerReportingServices » sur DESKTOP-MPSSRS. u serveur de rapports « SQLServerReportingServices » sur DESKTOP-MPSSRS. succès. Copier

Don't forget to save the encryption key by password.

Installing Visual Studio 2022

We install Visual Studio only with the aim of being able to manage and deploy managed reports. Once Visual Studio is installed, we will need to install an add-on without which Visual Studio by default is not capable of managing reporting services reports.

1. Start the setup and skip the connection or account creation; you can come back to it later if necessary.

2. Select only data storage and processing.

3. Finish the default installation



Add-on to manage RDL reports

Visual Studio's Action community does not have the default module for reporting reporting services so we need to add an additional solution as follows in order to be able to do that.

https://marketplace.visualstudio.com/items?itemName=ProBITools.MicrosoftReportProjectsforVisualStudio2022

Preview Release Candidate Builds If you'd like to have early access to release candidate builds before they are published to the VS Gallery, we're making available to give customers an opportunity to provide feedback prior to finalizing releases. To access the release candidate of the extensions in Visual Studio, you may do so by creating a "private gallery" and entering the following settings.

- Navigate to Tools > Options and then select Extensions and Updates under General.
- Under "Additional Extension Galleries", enter the following details:
- Name: Microsoft BI VSIX Preview
- URL: <u>http://aka.ms/VSIX2022</u>

After entering these settings, your "Extensions and Updates" dialog will show updates for the extension when there is a new release candidate that you can install to provide feedback for a day or two before the VS Gallery VSIX is updated.

Summary of points to check

- 1. The additional Microsoft BI VSIX module has been added.
- 2. In the Visual Studio project properties you need to make sure that the TargerServerURL value (Figure 4.0)
- 3. is the same as the Virtual Directory value in the "Web Service URL" tab of the Reporting Services Configure (Figure 4.1).



Figure 4.0

Report Server Configuration Manager

Provide the second seco	URL du service Web	
DESKTOP-MPSSRS\SSRS		
Scompte de service	Configurez une URL uti URL pour une seule ins	lisée pour accéder au serveur de rapports. Cliquez sur Options avancées pour définir plusieurs tance du serveur de rapports ou pour spécifier d'autres paramètres sur l'URL.
	Répertoire virtuel du service Web F	Report Server
🔊 URL du service Web	Répertoire virtuel :	ReportServer
📙 Base de données	Identification du site du service We	ab Deport Server
	Adresses ID :	
URL du portail Web	Adresse IP :	Assigné (recommandé) V
	Port TCP :	80
🚖 Paramètres de messagerie	Certificat HTTPS ·	
_	carantar	(Non selectionne)
Compte d'exécution	Port HTTPS :	Options avancées
Cléa da chifframant	URL du service Web Report Server	
N cles de chimement	LIBL -	http://DESKTOP-MPSSRS:80/ReportServer
	ORL :	
Aramètres d'abonnement		

Figure 4.1

1. You must ensure that the module that allows you to manage paginated reports is installed

Tools > Options > Extensions

Options

Options de recherche (Ctrl+E) Environnement Général Clavier Comptes Documents Extensions Fonctionnalités en préversion Immediation et enceptation de server	\$	 Extensions par utilisateur Rechercher automatiquement les mises à jour Mettre à jour les extensions automatiquement Charger les extensions par utilisateur lors d'une exécution e qu'administrateur (nécessite le redémarrage de Microsoft V Toutes les extensions utilisateur Rechercher automatiquement les mises à jour Mettre à jour les extensions automatiquement 	en tant 'isual Studio)
Importation et exportation de para Liste des tâches Mises à jour du produit Onglets et fenêtres Paramètres d'approbation Paramètres internationaux		 Autoriser le chargement automatique <u>s</u>ynchrone des extension recommandé. Nécessite un redémarrage Microsoft Visual Stu Galeries d'extensions supplémentaires : Microsoft BI VSIX Preview http://aka.ms/VSIX2022 	ons (Non Idio.)
Polices et couleurs Rechercher et remplacer Récupération automatique	~		Delete Move Up Move Down
		ОК	Annuler

1. You need to make sure that you are using the Visual Studio 2022 console as an administrator

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SQL Server Configuration 2022

SQL Server Security

Step 1

Connect to the SQL Server instance using SQL Server Management Studio (SSMS). Right-click the database instance and go to Properties.

Step 2

On the Server Properties page, click the Security page. Click the radio button next to SQL Server and Windows Authentication Mode, and then click OK to close the Server Properties page.

Once you click on the Ok button, we will get the following screen. We will need to restart the SQL Server service for this change to take effect. After restarting SQL Server, the authentication mode will be changed to SQL Server and Windows authentication mode.



Step 3

Now go to SQL Server Configuration Manager and restart MSSQLSERVER.

Server Properties - DESKTOP	-MPSSRS\SQLEXPRESS	_		\times
Select a page	🖵 Script 🔻 😮 Help			
 Memory Processors Security Connections Database Settings Advanced Permissions 	Server authentication Windows Authentication mode SQL Server and Windows Authentication mode Login auditing None Failed logins only Successful logins only Both failed and successful logins Server proxy account Enable server proxy account			
Connection	Proxy account:			
Server: DESKTOP-MPSSRS\SQLEXPRE	Options			
Connection: DESKTOP-MPSSRS\MonitorPack	 Enable C2 audit tracing Cross database ownership chaining 			
Progress				
Ready				
		OK	Can	cel

Add Windows user in SQL Server

For the user to be able to see the reports in the analytical web portal, it is first necessary that this account has read and write rights to the databases consulted through the portal.

1. SQL server management console, Right click on the Logins folder, Find the Windows user and add it.

🖵 Script 🔻 😮 Help		
Login <u>n</u> ame:	DESKTOP-CR4BO3C\ReportsMonitorpack	S <u>e</u> arch
Windows authentication		
O SQL Server authentication		
Password:		
Confirm password:		
Specify old password		
<u>O</u> ld password:		
Enforce password policy		
Enforce password expirat	tion	
✓ User must change passw	vord at next login	
Mapped to certificate	~ ~	
O Mapped to asymmetric key	~	
Map to Credential	V	<u>A</u> dd
Mapped Credentials	Credential F	



Create a SQL account

The SQL login account that has permissions to write to the database specified in local database is different from the account you will use to connect to the Microsoft Reporting Services Analytics web server.

🖵 Script 🔻 😯 Help		
Login <u>n</u> ame: O <u>W</u> indows authentication	SQL_Monitorpack	S <u>e</u> arch
SQL Server authentication		
Password:	•••••]
Confirm password:	•••••]
Specify old password		
<u>O</u> ld password:		
Enforce password policy		
Enforce password expira	tion vord at next login	
 Mapped to certificate 	~	
O Mapped <u>t</u> o asymmetric key	~	
Map to Credential	~	<u>A</u> dd
Mapped Credentials	Credential F	
		Pamaua
		nemo <u>v</u> e
Default <u>d</u> atabase:]
Default language:	<pre><derauit> </derauit></pre>	

i For information, it is then this SQL account which will be used in Monitorpack Guard, Asset and SNMP to consolidate data and alarms in SQL Server.



The "Local SQL Port access" LED determines that port 1433 is working, the "Local database" LED determines that the SQL server firewall rules allow access and account authentication in order to write to the databases.

Consult Microsoft TechNet regarding firewall rules allowing access to a SQL server. Créez une base de données et des tables.

Warning - The name of the Monitorpack databases follow a logic which is as follows: the 3 bases are always the 3 base names plus the name of the Windows user. This combination can be used dynamically in order to be able to produce Reporting Services dashboards, regardless of the name of the account you created as long as you respect this rule:

(In the package provided everything is already ready you don't have to modify anything)

• For Windows ReportsMonitorpack account

Propriétés de : Report	sMonitorpack	?	\times
Général Membre de	Profil		
Reports Mo	nitorpack		
Nom complet :	ReportsMonitorpack		
Description :	ReportsMonitorpack		
L'utilisateur doit ch	anger le mot de passe à la prochaine ouverture de session		
🗹 L'utilisateur ne peu	t pas changer de mot de passe		
🗹 Le mot de passe n	'expire jamais		
Le compte est dés	activé		
Le compte est ven	rouillé		

The naming rule is therefore:

• Monitorpack_Guard + Windows UserName

1. Run the following scripts present the Zip file "ReportsMonitorpack.zip"

In this order

• In the SQL interface click on Database, then right click create a new database named Monitorpack_GuardReportsMonitorpack

New Database					_	Х
Select a page	💭 Script 🔻 ?	Help				
OptionsFilegroups	Database name	:	Monitorpac	ck_GuardreportsMo	onitorpack	
	Use full-text i	ndexing	< derault>			
	Database files:					
	Logical Name Monitorpac	File Type ROWS	Filegroup PRIMARY	Initial Size (MB) 8	Autogrowth / Maxsize By 64 MB, Unlimited	 Pa C:
	Monitorpac	LOG	Not Applicable	8	By 64 MB, Unlimited	 C:
Connection						
Server: SRV-MONITORPACK\SQLEXPR	RE					

• Execute Monitorpack_GuardReportsMonitorpack.sql

SQL User Mapping

1. Give reader's and writer's rights to the SQL account: "SQL_Monitorpack" on the previously created database.

To do this, go to the SQL interface, click on login and select the SQL account named SQL_Monitorpack previously created, right-click and select the User Mapping property. In the database role membership window, check the db_datareader and db_datawriter boxes, check that Public is also well checked.

Login Properties - SQL_Mo	torpack	_		×
Select a page	🖵 Script 🔻 😯 Help			
 Server Roles User Mapping 	Users mapped to this login:			
 Securables Status 	Map Database Us master model model model Map Monitorpack_GuardReportsMonitorpack St Monitorpack_GuardReportsMonitorpack St msdb ReportServer ReportServerTempDB temodb temodb Temodb	er GL_Monitorpack		
Connection	Guest account enabled for: Monitomack, GuardBeportsMonitomack			
Server: SRV-MONITORPACK\SQLEXPR	Database role membership for: Monitorpack_GuardReportsMonitorpack			
Connection: SRV-MONITORPACK\MonitorPac Y <u>View connection properties</u>	db_accessadmin db backupoperator db_datareader db_datawriter db_ddiadmin			
Progress Ready	☐ db_denydatareader ☐ db_denydatawriter ☐ db_owner ☐ db_securityadmin ✔ public			
		ОК	Can	cel

Windows account mapping

1. Give read and write rights to Windows ReportMonitorpack accounts on the three databa	ses.
---	------

Select a page	E a su	0.00			
✗ General	L Script	🔻 😲 Help			
🖉 Server Roles					
🔑 User Mapping	Users ma	apped to this login:			
Securables	Map	Database	User	Default Schema	~
👂 Status		master			
		model			
		Monitorpack_Asset			
	10	Reference, and the second second	the state with the baseling a state	100	
	1.11	Total Long Do			
	1.10	Respondent August August August August	strates which have been all a second	10	
		Renterpedie Georg			
		Monitorpack_GuardReportsMonitorpack	SRV-MONITORPACK\ReportsMonitorpack	dbo	
	E CI	Retract Local April Retract.			
	C 3	moup			
		ReportServer			
		ReportServerTempDB			
		temodb			~
Connection	<				>
Conver	Guest	t account enabled for: Monitorpack_GuardReports	Monitorpack		
SRV-MONITORPACK\SQLEXPF	RE Database	a role memberribio for: Monitomack, Guard Peporte	Manitamaak		
Connection:		e foie membership foit. Monitorpack_cularumepoits	Monitorpack		
SRV-MONITORPACK\MonitorPa		ccessadmin ackupoperator			
View connection properties	db_d	atareader			
	db_d	atawriter			
	dbd	dladmin			
		enydatareader enydatawriter			
Progress		wner			
All Ready		ecurityadmin			
neddy	🗹 public	c			
. of the					
				OK (Cancel

Configuring protocols

By default, SQL Server listens on dynamic ports, it is relevant to freeze the default listening port which is commonly 1433.

1. SQL Server management open the console go to protocol for SQL Express open the properties go to the IP address tab force port 1433 as shown below (IP1 and All IP) apply and close.

2. Disable Named Pipes and Shared Memory

3. Restart the SQL Server and browser services so that the new configuration is taken into account.



Ξ	IP1		^
	Actif	Oui	
	Activé	Non	
	Adresse IP	192.168.1.86	
	Port TCP	1433	
	Ports TCP dynamiques	0	
Ξ	IP2		
	Actif	Oui	
	Activé	Non	
	Adresse IP	fe80::ee91:cfd:d134:6eb2%14	
	Port TCP		
	Ports TCP dynamiques	0	
Ξ	IP3		
	Actif	Oui	
	Activé	Non	
	Adresse IP	169.254.155.61	
	Port TCP		
	Ports TCP dynamiculas	0	*

	Port TCP		 ~
	Ports TCP dynamiques	0	
Ξ	IP4		
	Actif	Oui	
	Activé	Non	
	Adresse IP	::1	
	Port TCP		
	Ports TCP dynamiques	0	
Ξ	IP5		1.0
	Actif	Oui	
	Activé	Non	
	Adresse IP	127.0.0.1	
	Port TCP		
	Ports TCP dynamiques	0	
	IPAII		
	Port TCP	1433	
1	Ports TCP dynamiques	U	
	76		•
Po	ort TCP		
Po	on ICP		

Create SQL firewall Rules

To access your server in read-write mode you must authorize the incoming TCP port 1433 and TCP 1434 for the browser service; you must also add the UDP 1434 to authorize authentication.

Create a scheduled task

Monitorpack Guard consolidates its alarms in temporary SQL databases

it is therefore necessary to program a scheduled task to synchronize the temporary databases with the definitive databases which are those displayed in the Monitorpack web Analytics portal.

There are various ways to schedule these tasks, for the SQL express version this option does not exist so we proposed to create a task in the task scheduler which will call the script "SQL_Alarms_Request_ReportsMonitorpack.bat" provided in the package and which must be located in the following directory "C:\Program Files\Microsoft SQL Server\Alarms"

1. Run the following command as administrator in a CMD window

schtasks /create /tn "Monitorpack Alarms Update" /tr "\"C:\Program Files\Microsoft SQL Server\Alarms\ SQL_Alarms_Request_ReportsMonitorpack.bat"" /sc minute /mo 5

Then check that the task has been created in the task scheduler below

SSRS Configuration

Deploy RDL in Visual Studio

Pages de propriétés de MonitorPack	Alarms	? ×
Configuration : Active(Debug)	 Plateforme : Non applicable 	Gestionnaire de configurations
Propriétés de configuration Général	 Déboguer Startitem Déploiement Overwrite Datasets Overwrite Data Sources Target Dataset Folder Target Data Source Folder Target Data Source Folder Target Report Part Folder Target Server URL Target Server Version Générer ErrorLevel Output Path 	Report 1.rdl False False MonitorPack Alarms http://localhost/ReportServer SQL Server 2016 or later 0 bin\Debug
		OK Annuler Appliquer

Report Server Configuration Manager

net a connecter	URL du service Web	
DESKTOP-MPSSRS\SSRS	Carfiguratura UDI	
💐 Compte de service	URL pour une seule	instance du serveur de rapports ou pour spécifier d'autres paramètres sur l'URL.
👌 URL du service Web	Répertoire virtuel du service We Répertoire virtuel :	Report Server
📙 Base de données	Identification du site du service	Web Report Server
🌍 URL du portail Web	Adresse IP :	Assigné (recommandé) V
🚖 Paramètres de messagerie	Certificat HTTPS :	80 (Non sélectionné) v
Compte d'exécution	Port HTTPS :	Options avancées
Clés de chiffrement	URL du service Web Report Service	ver
退 Paramètres d'abonnement	URL :	http://DESKTOP-MPSSRS:80/ReportServer

Open the Visual Studio 2022 console make sure that you have not forgotten to install the module for paginated reports, to check open the module option and check that Microsoft IVSXI preview is present.

Options		?	×
Options de recherche (Ctrl+E)	ρ	Extensions par utilisateur	
 Environnement Général Clavier Comptes 	^	 Rechercher automatiquement les mises a jour Mettre à jour les extensions automatiquement Charger les extensions par utilisateur lors d'une exécution en tant qu'administrateur (nécessite le redémarrage de Microsoft Visual Studio) 	
Documents Extensions Fonctionnalités en préversion Importation et exportation de pa	ri	Toutes les extensions utilisateur (Nécessite des privilèges d'administrateur pou Rechercher automatiquement les mises à jour Mettre à jour les extensions automatiquement	ir apport
Liste des tâches Mises à jour du produit Onglets et fenêtres Paramètres d'approbation		Autoriser le chargement automatique synchrone des extensions (Non recommandé. Nécessite un redémarrage Microsoft Visual Studio.) Galeries d'extensions supplémentaires : Microsoft BLVSIX Preview Add	_ ^
Paramètres internationaux Polices et couleurs Rechercher et remplacer Récupération automatique	Ţ	http://aka.ms/VSIX2022	
<	,	Move D <u>o</u> w	n V
		OK An	nuler

Select: open a project or solution and open the Monitopack_alarms.sln solution present in the "C:\Program Files\Microsoft SQL Server Reporting Services\ssrs_projects\Monitorpack Alarms" folder.

Nom	Modifié le	Туре	Taille
MonitorPack Alarms	03/11/2023 17:46	Dossier de fichiers	
💯 MonitorPack Alarms.sln	27/01/2018 16:14	Visual Studio Solu	2 Ko

You will get this error if you have not installed the Visual Studio module for paginated reports

Liste d'erreurs						
Solution complet	te 👻 😣 1 Erreur	🛕 0 de 3 Avertissements	i 0 Messages	¶7 Bu	ild + IntelliSense	
" [¶] Code	Description					Projet
▶ 😣	System.Web.Services.Prot in the config file> Sys	tocols.SoapException: There s tem.Web.HttpException: Ma	was an exception ru ximum request len	unning the e gth exceed	extensions specified ed	
Liste d'erreurs So	ortie					

1. Open the folder "C:\Program Files\Microsoft SQL Server Reporting Services\SSRS\ReportServer\"

2. Edit the web.config file

Nom	Modifié le	Туре	Taille
	00/44/000004545		
bin	03/11/2023 15:16	Dossier de fichiers	
Pages	03/11/2023 15:16	Dossier de fichiers	
RSTempFiles	06/11/2023 23:16	Dossier de fichiers	
Styles	03/11/2023 15:16	Dossier de fichiers	
Catalog.sql	13/06/2023 11:20	Microsoft SQL Ser	617 Ko
CatalogTempDB.sql	13/06/2023 11:20	Microsoft SQL Ser	25 Ko
📄 global.asax	13/06/2023 11:30	Fichier ASAX	1 Ko
ModelGenerationRules.smgl	13/06/2023 11:30	Fichier SMGL	26 Ko
ReportExecution2005.asmx	13/06/2023 11:30	Fichier ASMX	1 Ko
ReportService2005.asmx	13/06/2023 11:30	Fichier ASMX	1 Ko
ReportService2006.asmx	13/06/2023 11:30	Fichier ASMX	1 Ko
ReportService2010.asmx	13/06/2023 11:30	Fichier ASMX	1 Ko
🔁 rsreportserver.config	03/11/2023 15:38	XML Configuratio	19 Ko
🔁 rssrvpolicy.config	06/11/2023 23:15	XML Configuratio	10 Ko
🖞 web.config	06/11/2023 23:15	XML Configuratio	7 Ko

1. In the file web.config find the next line

<httpRuntime executionTimeout="9000" requestValidationMode="2.0" />

- 2. Replace it with the line below
- 3. <httpRuntime executionTimeout="9000" maxRequestLength="500000" requestValidationMode="2.0" />



4. Regenerate the file which should now no longer produce the error. This is a limitation of the SQL express version which will not necessarily be encountered in all SQL versions.

Reporting Service folder location

1. Verify that the folder named "sssrs-project" which contains the reporting services projects is present in the following folder

C:\Program Files\Microsoft SQL Server Reporting Services\

Nom	Modifié le	Туре	Taille
Shared Tools	03/11/2023 15:15	Dossier de fichiers	
SSRS	03/11/2023 15:16	Dossier de fichiers	
ssrs_projects	03/11/2023 17:37	Dossier de fichiers	

Web portal permission

1. Access the URL of the web portal in our case.

URL du portail web	
Configurez une d'autres paramé	URL pour accéder au portail web. Cliquez sur Options avancées pour définir plusieurs URL ou spécifier tres sur l'URL.
Identification du site du port	ail web
Répertoire virtuel :	Reports
URL :	http://DESKTOP-MPSSRS:80/Reports Options avancées

1. Select manage folder



1. Search and add the user

- 2. Give him the explorer role
- 3. Check that the rights are properly propagated including Monitorpack Alarms folders

J	Monitorpack Reporting Services Accueil > Gérer > Sécurité > Nouveau rôle							
		Utilisez cette page pour affecte Groupe ou utilisateur : Repo	r une sécurité basée sur les rôles pour Accueil. rtsMonitorpack					
		Rôle ^	Description					
		Browser	May view folders, reports and subscribe to reports.					
		Content Manager	May manage content in the Report Server. This includes folders, reports and resources.					
		My Reports	May publish reports and linked reports; manage folders, reports and resources in a users My Reports folder.					
		Publisher	May publish reports and linked reports to the Report Server.					
		Report Builder	May view report definitions.					
		OK Annuler						

← C ▲ Non sécu	C A Non sécurisé desktop-mpssrs/Reports/manage/catalogitem/security?_pk=obbpso00								
Monitorpack Reporting Services Accueil > Gérer > Sécurité									
+ Ajouter un groupe ou un utilisateur 🗊 Supprimer Rechercher									
Gelei	Modifier	Groupe ou utilisateur 🔨	Rôles						
Sécurité	Modifier	BUILTIN\Administrators	Content Manager						
	Modifier	DESKTOP-MPSSRS\ReportsMonitorpack	Browser						

Connection

- 1. Use the URL which is configured in the URL tab of the web portal, it is this address which will allow you to access the portal console, in our case http://desktop-mpssrs/Reports
- 2. By consulting the TechNet and configuring SQL Server reporting services you have the possibility of using HTTPS by adding a certificate to do this you need an Active Directory Forest with a Certificate Authority server.

Access your Web Analytics Monitorpack

Se connecter

http://desktop-mpssrs

Votre connexion à ce site n'est pas privée

Nom d'utilisateur		ReportsMonitorpack			
Mot de passe		•••••			
I	Se	connecter	Annuler		

Favoris Parcouris Commentation Start Date 0/11/2023 23:55:9 Image: Commentation Affidient le report Id 1 1 PI Image: Commentation Affidient le report Id 1 1 PI Image: Commentation Image: Commentation Affidient le report Id 1 1 PI Image: Commentation Image: Commentation	uli	Monitorpack Reporting Services	Accueil > Mon	itorpack Alarms 🕽	Main Dashboa	rd alarms			©	Ŧ	? R	eportsMonitorpack
Start Date 0/11/2023 235959 Image: Affider/engport Id 1 sur1 D Image: Closed Closed Closed Closed Opened Critical Image: Closed Closed <t< td=""><td>Favori</td><td>s Parcourir</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>💬 Commentaires</td></t<>	Favori	s Parcourir										💬 Commentaires
V <	Start Date	e 01/11/2023	End Date	30/11/2023 23:59	59							Afficher le rapport
Global incidents statusStatistics per dayMain tickets dashboard $Closed$ 0 1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0	$ \triangleleft$	< 1 sur 1 >	⊳I ()	€ 100%	~			$(P \rightarrow)$				
$ \begin{array}{c} Closed \\ \hline $		Global incidents status				<u>Statistics pe</u>	er day <u>I</u>	<u>Main tickets dashboa</u>	<u>rd</u>			•
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Monitorpack Reporting Services	Accueil > Monite	orpack Alarms > Main	Dashboard alarms			۵	$\overline{\mathbf{A}}$?	ReportsMonitorpack
Favoris Parcourir									💬 Commentaire
	Ø I⊲	(C) 100%		д	♦ 1 \$	100.000 %	0		
Database SLA		Database alarms	Tickets	Database	e availability				
Database counter	0		Perfmon tickets		No Data Availal	ble			0
Database service	0		Service tickets		No Data Availat	ble			0
Database socket	0		Socket tickets		No Data Availat	ble			0
Database share	0		Share tickets		No Data Availat	ble			0
Database process	0		Process tickets		No Data Availat	ble			0
Database EventID	0		Event ID tickets		No Data Availat	ole			0
Database Snmp	0		<u>Snmp tickets</u>		No Data Availat	ble			0

Perfmon ID	Insert Date	Outage Perfmon		Value	Computer	Managed

Main Dashboard alarms

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