

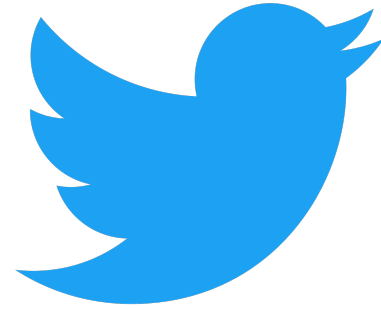
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# Amministrare Reporting Services con Powershell

# Sponsor





#SqlSat707

# Danilo Dominici

Consulente, docente, speaker e autore

Microsoft Certified Trainer dal 2000

Microsoft MVP dal 2014 al 2017

Lavoro con SQL Server dalla versione 6.5

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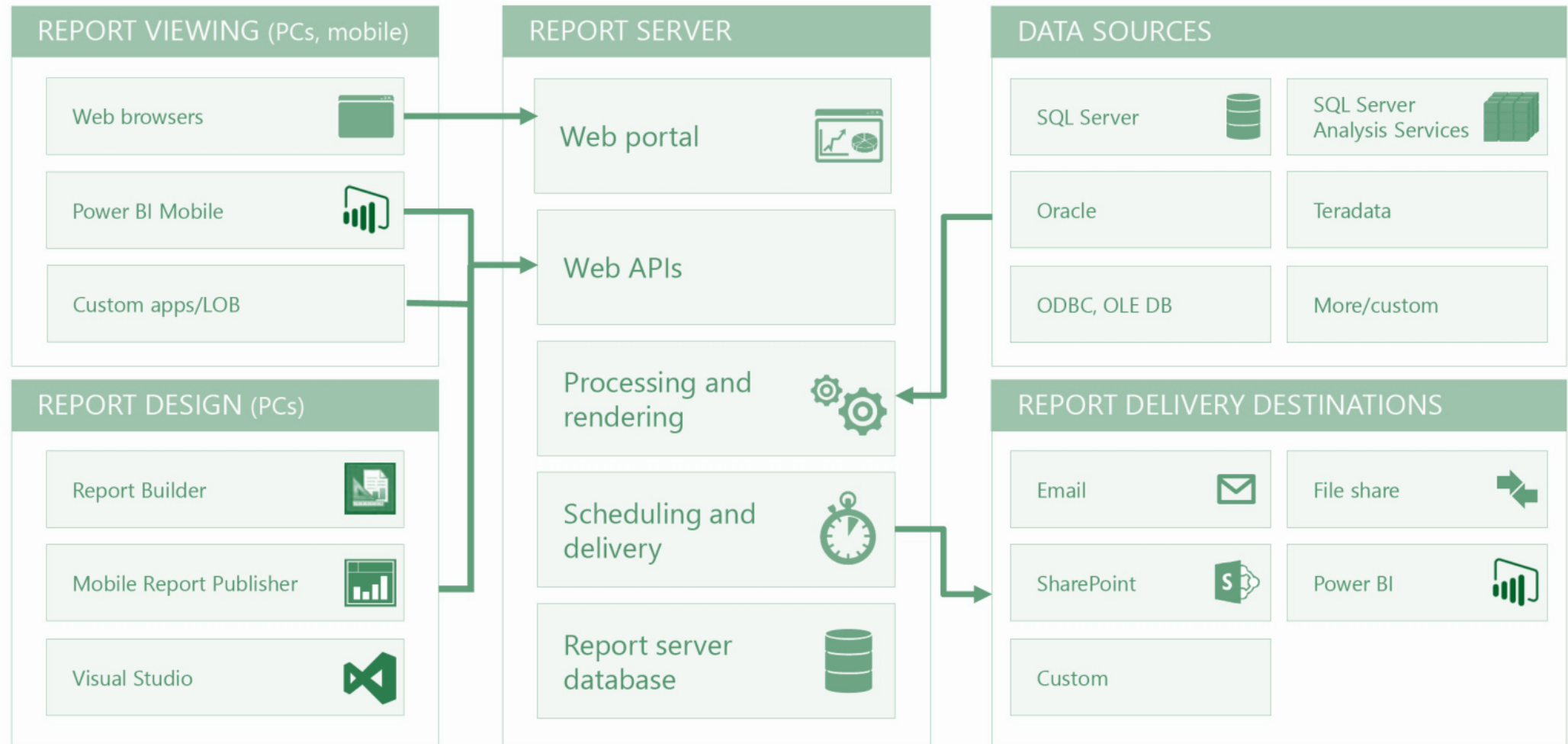
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# Reporting Services

# Architettura di SQL Server Reporting Services





Come interagire con SSRS ?

# Con quali oggetti possiamo interagire?

Folders

Reports

Datasources

Datasets

Subscriptions

Security

Cache

...



# SSRS web services endpoints

## Management proxy

Consente l'esecuzione di comandi amministrativi

<http://<server-url>/ReportServer/ReportService2010.aspx>

## Execution proxy

Consente di effettuare il rendering di un report

<http://<server-url>/ReportServer/ReportExecution2005.aspx>

# Connettersi ai web services di SSRS

## New-WebServiceProxy

Cmdlet che consente di usare ed amministrare un web service in Powershell

Uso:

```
$uri = "http://localhost/ReportServer/ReportExecution2005.asmx?WSDL"
```

```
$proxy = New-WebServiceProxy $uri -UseDefaultCredential;
```

<https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.management/new-webserviceproxy?view=powershell-5.1>

# Eseguire un report

## Metodo Render2 del web service ReportExecutionService

```
public byte[] Render2(  
    string Format,  
    string DeviceInfo,  
    PageCountMode PageinationMode,  
    out string Extension,  
    out string MimeType,  
    out string Encoding,  
    out Warning[] Warnings,  
    out string[] StreamIds )
```

# Gestire Reporting Services

Utilizzo il web service di “amministrazione”

Metodi per creare o eliminare oggetti (es. folder, report, datasource, dataset)

Metodi per impostare parametri di SSRS (es. i permessi sulle folder)

Metodi per importare o esportare gli oggetti di SSRS

Demo



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# Powershell SQL Server Reporting Services Tools

# Installazione

Install-Module -Name ReportingServicesTools

*oppure*

Invoke-Expression (Invoke-WebRequest  
<https://aka.ms/rstools>)

Supporta tutte le versioni a partire da SQL Server 2012

# Comandi disponibili

Backup-RsEncryptionKey

Export-RsSubscriptionXml

Get-RsFolderContent

Get-RsDataSource

Get-RsItemReferences

Get-RsCatalogItemRole

Get-RsSubscription

Grant-AccessOnCatalogItem

Grant-AccessToRs

Import-RsSubscriptionXml

Initialize-Rs

New-RsConfigurationSettingObject

New-RsDataSource

New-RsFolder

New-RsRestFolder

New-RsRestSession

New-RsSubscription

New-RsScheduleXml

New-RsWebServiceProxy

Out-RsCatalogItem

Out-RsFolderContent

Out-RsRestFolderContent

Out-RsRestCatalogItem

Register-PowerBI

Remove-RsCatalogItem

Remove-RsRestCatalogItem

Remove-RsRestFolder

Restore-RsEncryptionKey

Revoke-AccessOnCatalogItem

Revoke-AccessToRs

Set-RsDatabase

Set-RsDatabaseCredentials

Set-RsDataSet

Set-RsDataSource

Set-RsDataSourcePassword

Set-RsEmailSettingsAsBasicAuth

Set-RsEmailSettingsAsNoAuth

Set-RsEmailSettingsAsNTLMAuth

Set-RsSharedDataSource

Set-RsSubscription

Set-RsUrlReservation

Set-PbiRsUrlReservation

Write-RsCatalogItem

Write-RsFolderContent

Write-RsRestCatalogItem

Write-RsRestFolderContent



Demo



# Risorse

## Microsoft Reporting Services tools (Github)

<https://github.com/Microsoft/ReportingServicesTools>

## SSRS Management - ReportService2010.asmx

<http://bit.ly/2gVe00y>

## SSRS Execution - ReportExecution2005.asmx

<http://bit.ly/2yfv1dt>

## Managing SSRS security

<https://www.sqlshack.com/managing-ssrs-security-using-powershell-automation-scripts/>

## Cmdlets SSRS Sharepoint integrated mode

<https://docs.microsoft.com/it-it/sql/reporting-services/report-server-sharepoint/powershell-cmdlets-for-reporting-services-sharepoint-mode>

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Q & A

Thank You!