

Security

Securing content on the report server



Overview

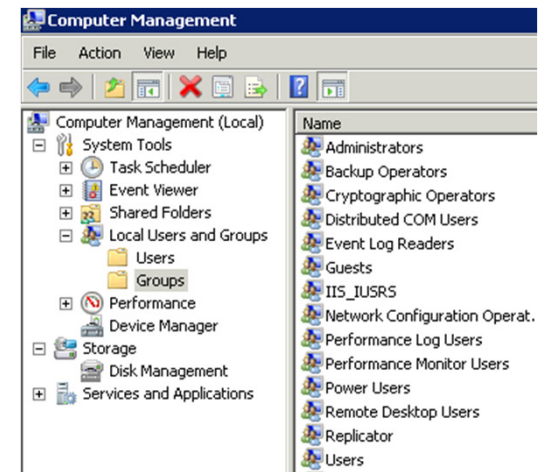
- Authentication
- Authorization
- Item-Level Security
- System Roles
- Data Security

Authentication



Authentication Types:

- Windows integrated security (NTLM, Kerberos)
- Basic
- Custom



Authorization

Native-Mode Roles

Content Manager

Permission to perform all content management tasks, including security configuration

Publisher

Permission only to view and manage all content except subscriptions and security

Browser

Permission only to view reports and manage individual subscriptions

Report Builder

Permission only to view reports, manage individual subscriptions, and start Report Builder

My Reports

Permission to perform all content management tasks within the My Reports folder only

SharePoint Groups

Owners

Full Control permission to change site content, pages, or functionality

Members

Contribute permission to view and manage content and submit changes for approval

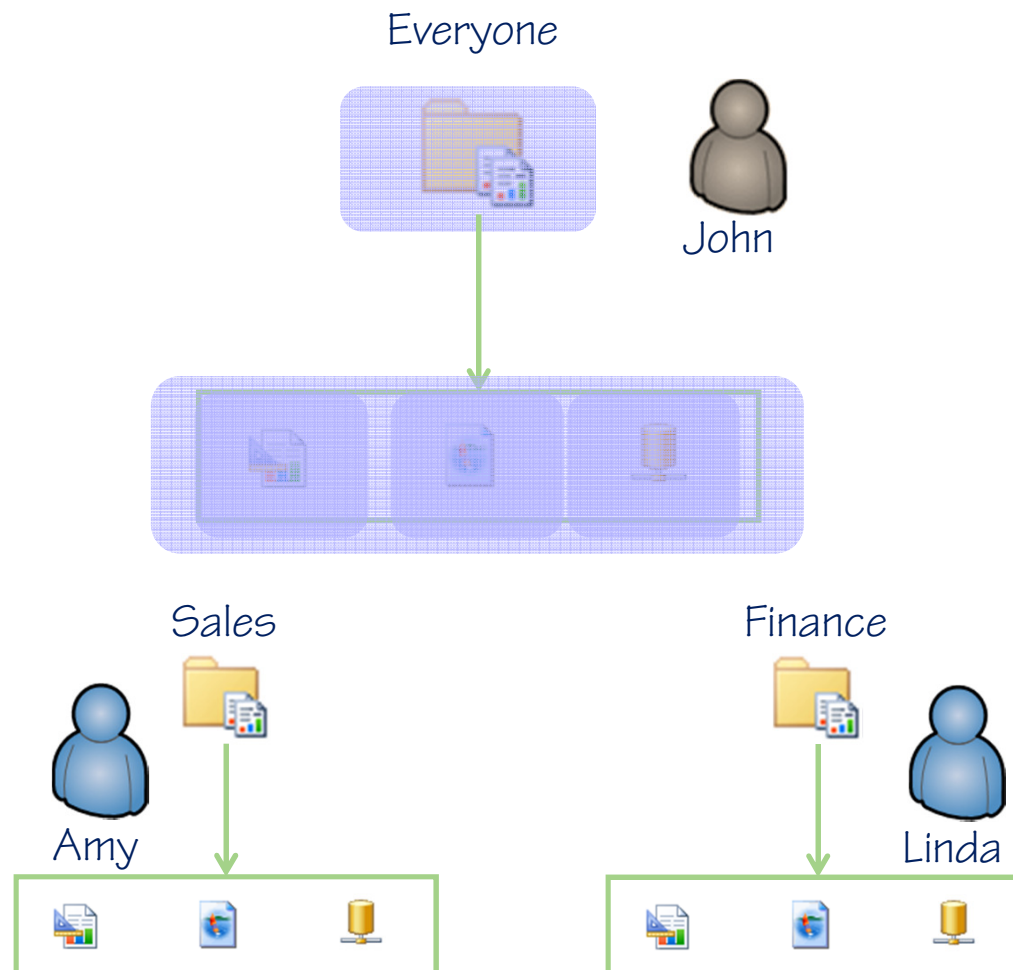
Visitors

Read permission to view content and create subscriptions


No equivalent group—Owners and Members can start Report Builder

No equivalent group—Enable the My Site features of SharePoint to support similar functionality within My Site



Item-Level Security



Item-Level Security

 Edit Item Security	
Group or User ↓	Role(s)
BUILTIN\Administrators	Content Manager



 Delete		 New Role Assignment	
<input type="checkbox"/>	Group or User ↓		Role(s)
<input type="checkbox"/>	Edit BUILTIN\Administrators		Content Manager



Home | My Subscriptions | Site Settings | Help

SQL Server Reporting Services

New Role Assignment

Use this page to define role-based security for Home.

Group or user name:

Select one or more roles to assign to the group or user.

<input type="checkbox"/>	Role ↓	Description
<input checked="" type="checkbox"/>	Browser	May view folders, reports and subscribe to reports.
<input type="checkbox"/>	Content Manager	May manage content in the Report Server. This includes folders, reports and resources.
<input type="checkbox"/>	My Reports	May publish reports and linked reports; manage folders, reports and resources in a users My Reports folder.
<input type="checkbox"/>	Publisher	May publish reports and linked reports to the Report Server.
<input type="checkbox"/>	Report Builder	May view report definitions.

OK Cancel

System Roles

Use This Task	To Allow This Activity
Execute Report Definitions	Execute a report independently of a report server, such as in Report Builder
Generate Events	Generate events in the report server namespace (applicable to applications, not to users)
Manage Jobs	View and cancel running jobs
Manage Report Server Properties	Change report server properties
Manage Report Server Security	Add or delete users assigned to system roles
Manage Roles	Add, change, or delete role definitions
Manage Shared Schedules	Add, change, or delete shared schedules used to execute reports or subscriptions
View Report Server Properties	View report server properties
View Shared Schedules	View shared schedules used to execute reports or subscriptions

Linked Report

Create a new linked report that is based on /Sales and Order Quantity Analysis/Annual Sales by Territory.

Name:

Description:

Location: /Pacific Sales

Select the parameters that all users can change, and choose a default value for each.

Parameter Name	Data Type	Has Default	Default Value	Null	Hide	Prompt User	Display Text
BusinessType	String	<input checked="" type="checkbox"/>	<input type="text" value="Value Added Reseller"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Business Type"/>
SalesTerritoryGroup	String	<input checked="" type="checkbox"/>	<input type="text" value="Pacific"/> <input type="button" value="v"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text" value="Sales Territory Group"/>
SalesTerritoryCountry	String	<input checked="" type="checkbox"/>	<input type="text" value="Query Based"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="SalesTerritoryCountry"/>
Year	String	<input checked="" type="checkbox"/>	<input type="text" value="Query Based"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="Year"/>

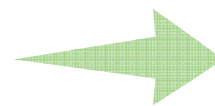
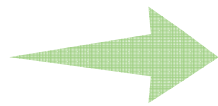


Query Parameter

	UserId	SalesTerritoryGroup
1	CONTOSO\Administrator	Europe
2	CONTOSO\amya	Europe
3	CONTOSO\Administrator	North America
4	CONTOSO\syeda	Pacific
5	CONTOSO\Administrator	Pacific

Where PermissionsSalesTerritory.UserID = @User

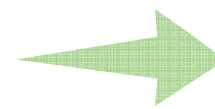
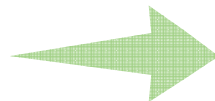
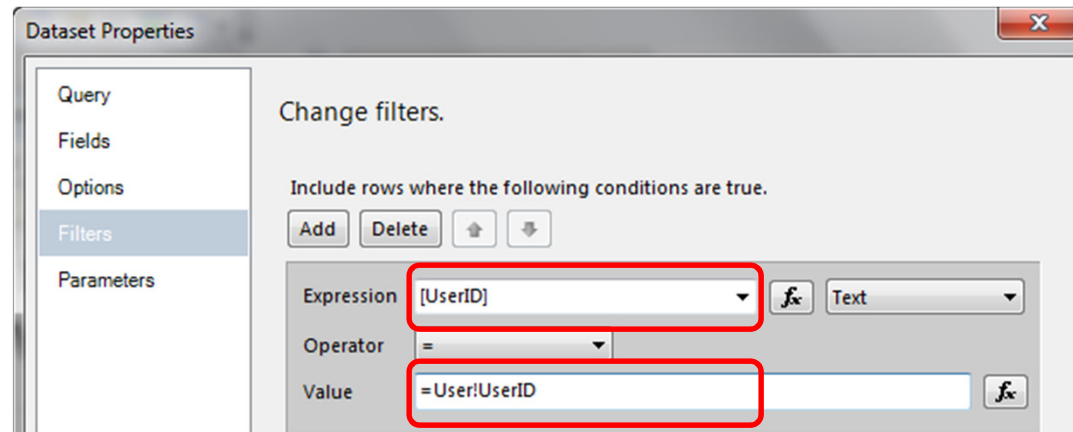
@User = User!UserID



Permissions Table

Dataset Filter

Select PermissionsSalesTerritory.UserID, ...



Filtered Dataset

Summary

- **Authentication**
 - Windows integrated security, basic, custom
- **Authorization**
 - Role assignments
- **Item-Level Security**
 - Inheritance from parent folder , mapping to role assignment
- **System Roles**
 - Report server administrative tasks, system administrator and system user
- **Data Security**
 - Linked report, query parameter, dataset filter

References

- **Authentication Types in Reporting Services**
 - <http://msdn.microsoft.com/en-us/library/cc281310.aspx>
- **Configuring a Report Server for SSL Connections**
 - <http://msdn.microsoft.com/en-us/library/ms345223.aspx>
- **Role Assignments**
 - <http://msdn.microsoft.com/en-us/library/ms156406.aspx>