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# Top SharePoint 2013 misconfigurations

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SHAREPOINT **SATURDAY**  
■■■■■ ■■■■  
OTTAWA

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# Top for SharePoint 2013 misconfigurations

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In this sessions you will learn about the top 10 misconfiguration issues we find when SharePoint is installed by someone that does not have much SharePoint 2013 experience. You will learn how to avoid (or fix) these issues.

# Who is Serge Tremblay?

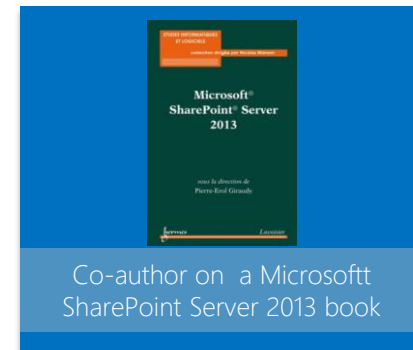
SharePoint



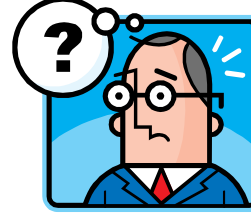
Serge Tremblay



À propos de Serge Tremblay  
 follow this person [stremblay@victrix.ca](mailto:stremblay@victrix.ca)  
 Feel free to mention me in a post.



<http://www.lavoisier.fr/livre/notice.asp?ouvrage=2721040>



## Is this session for me?

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- This session is for you if you have not deployed SharePoint 2013 and want to avoid falling in the same trap as a lot of people before you!

# Agenda

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1. SQL configurations
2. X
3. X
4. X
5. X
6. X
7. X
8. X
9. X
10. X







# SQL Configurations

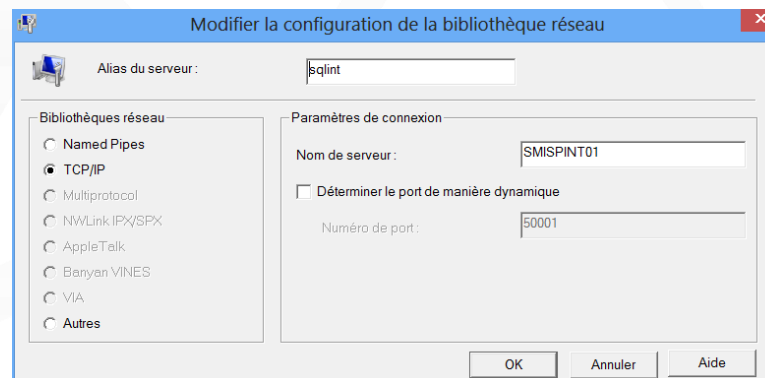
---

- All your SharePoint content is stored in SQL Databases
  - If your SQL Server is not configured properly, it is going to affect your SharePoint
  - Here are some recommendations:
    - A. Don't rely on the Out of the box SQL configuration
    - B. Hire a DBA
    - C. Make sure the DBA understands SharePoint
-



# Planning

- Use SQL Alias
- Use a naming convention for your databases
- Plan disk usage
- Watch out for some SQL out of the box configuration







# SQL Best practices

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Watch out for the default OOB SQL configurations

- Initial size of DB and autogrow setting
  - Fill Factor
  - Database maintenance
    - Integrity
    - Index defragmentation
    - Index rebuild
    - Database backup and flush logs
  - Everything on the same disk???
-



# SQL disk partitioning

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You could use only one physical disk on your SQL Server, but you will more than likely face performance issues.

Here is a recommended disk configuration for SQL

- Windows (C:)
  - Applications (D:)
  - Databases (E:)
  - Data log files(F:)
  - TempDB Data(G:)
  - TempDB logs (H:)
  - Backup (NetShare on a backup server)
-

# Agenda

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1. SQL configurations
2. Using the Configuration Wizard
3. X
4. X
5. X
6. X
7. X
8. X
9. X
10. X





# Using the Configuration wizard

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Wizards can do great thing!



But not with..



Unless it's for quick testing/demo purpose

In other scenarios use PowerShell:



# Agenda

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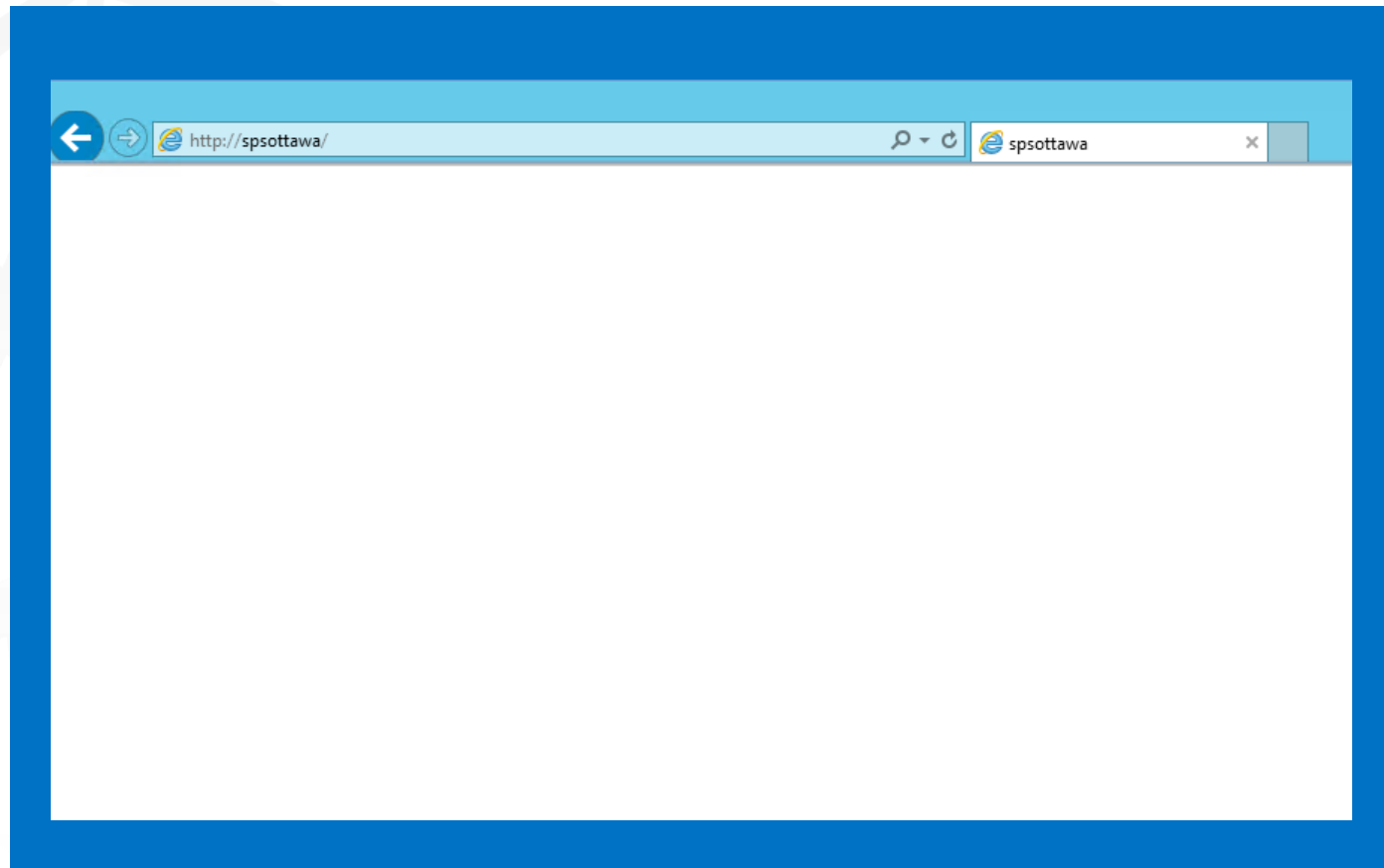
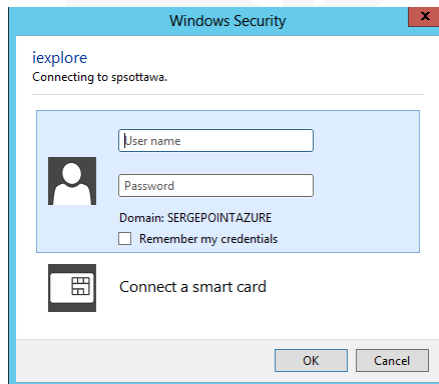
1. SQL configurations
2. Using the Configuration Wizard
3. Disable Loopback check
4. X
5. X
6. X
7. X
8. X
9. X
10. X



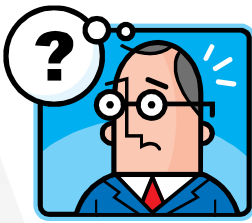


# Is this the writers block?

- After installing SharePoint and configuring SharePoint you cannot access your site collection, you get a blank page or a 401 error.



Why?



- On Windows Server there is a loopback security check that prevents access to a web application using a fully qualified domain name (FQDN) if an attempt to access it takes place from a machine that hosts that application.
- Why are they doing this?
  - There are many exploits which attempt to attack via reflection – i.e. pretending to be local as to bypass constraints.





# But it breaks SharePoint

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- Search Indexing
- Web Application Warmup scripts
- Custom code using SharePoint Web Services

Source: [DisableLoopbackCheck & SharePoint: What every admin and developer should know.](#)

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## Fix 1 (Recommended)

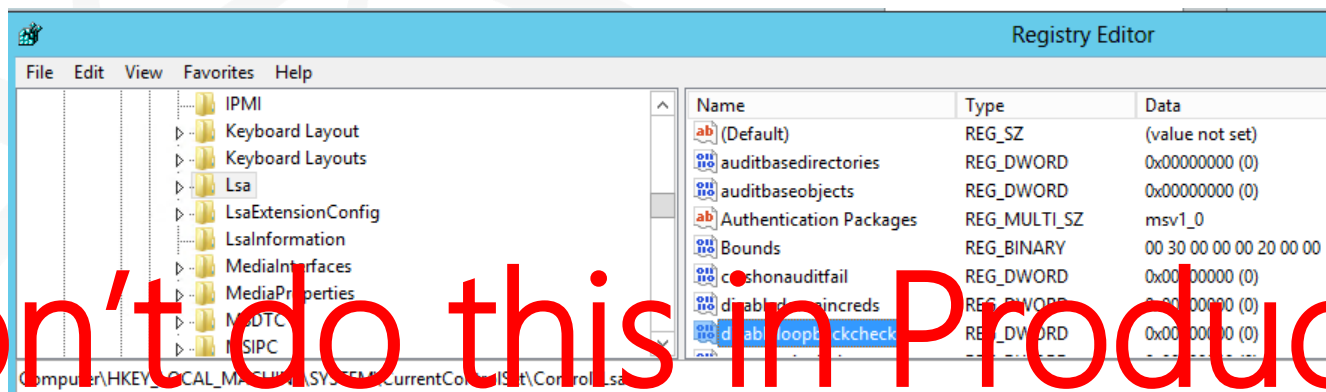


1. Set the DisableStrictNameChecking
2. registry entry to 1. For more information about how to do this, click the following article number to view the article in the Microsoft Knowledge Base:  
[281308](http://support.microsoft.com/kb/281308/)(<http://support.microsoft.com/kb/281308/> )
3. Click **Start**, click **Run**, type regedit, and then click **OK**.
4. In Registry Editor, locate and then click the following registry key:  
**HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\MSV1\_0**
5. Right-click **MSV1\_0**, point to **New**, and then click **Multi-String Value**.
6. Type BackConnectionHostNames, and then press ENTER.
7. Right-click **BackConnectionHostNames**, and then click **Modify**.
8. In the **Value data** box, type the host name or the host names for the sites that are on the local computer, and then click **OK**.
9. Quit Registry Editor, and then restart the IISAdmin service.

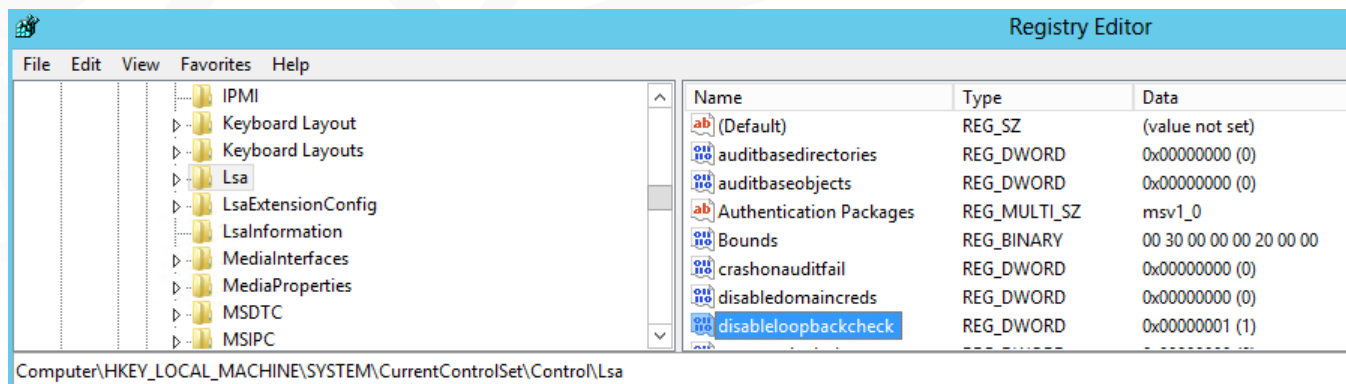
## Fix 2



Add the a disableloopbackcheck key via Regedit and set the value to 1



Don't do this in Production





# Now the site is working

SharePoint

SERGEPOINTAZURE\stremblay

?

BROWSE


PAGE

SHARE

FOLLOW

SYNC

EDIT



SPSOttawa

EDIT LINKS

Home


Documents

Site Contents


EDIT LINKS

Get started with your site


REMOVE THIS




Share your site.




Working on a deadline?



Add lists, libraries, and other apps.



What's your style?



Your site. Your brand.

Documents

+

 new document or drag files here

✓

 Name Modified Modified By

There are no documents in this view.

# Social Features Issues

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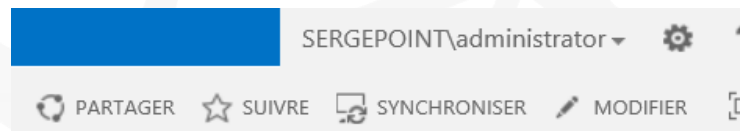


# SharePoint 2013 Social Features

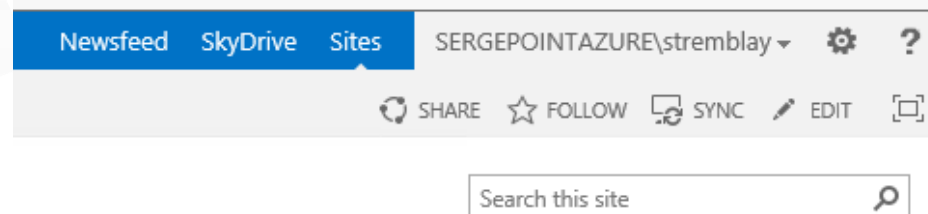


In order to use the social feature of SharePoint 2013 the User Profile service application need to be configured properly

## Navigation without User Profile



## Navigation with User Profile



Note: SharePoint Foundation does not provide these features.



# Following not working

- “Following” is a new feature that allows user to follow:
  - People
  - Sites
  - Documents/pages
  - Hash Tags (#)
- The Newsfeed retrieves the information/changes made to information you are Following.





# Something went wrong When you click on Follow



SharePoint

BROWSE PAGE

SPSOttawa EDIT LINKS

SPSOttawa

SEARCH

SHARE FOLLOW SYNC EDIT

Search this site

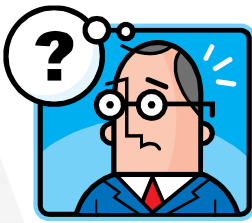
Something went wrong

Sorry, we couldn't follow the site.

TECHNICAL DETAILS  
UserProfileApplicationNotAvailableException\_Logging :: UserProfileApplicationProxy.GetRawPartitionID has null proxy

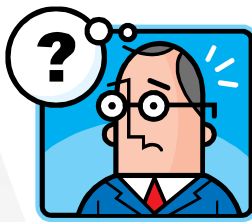
Close

Why?

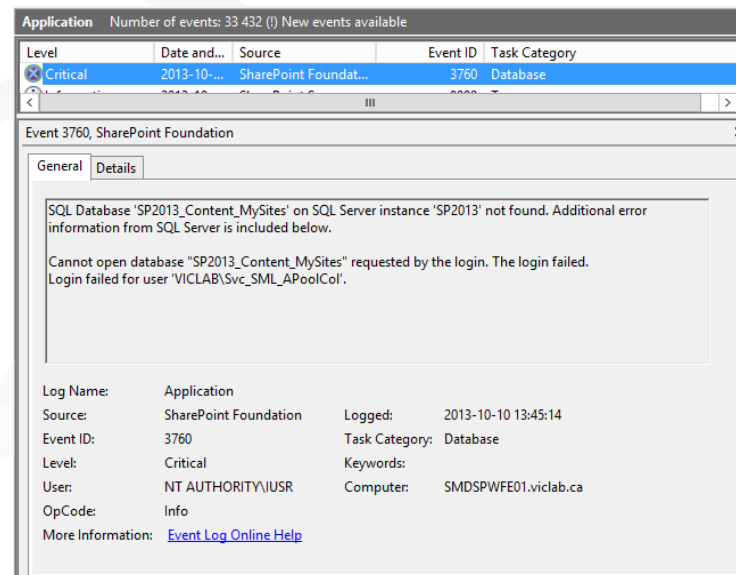


- *Because the application pool identity for Mysite is different than the application pool identity used for the content site.*

# Why?



- *When the application pool Identity for Mysite is different then the application pool Identity used for the content site, you will get the following error:*



# Fix Follow not working



- *Use PowerShell*



```
$webApp = Get-SPWebApplication "URL of Mysite"
```

```
$webApp.GrantAccessToProcessIdentity("Account Identity of content  
application pool")
```



# New SQL database role

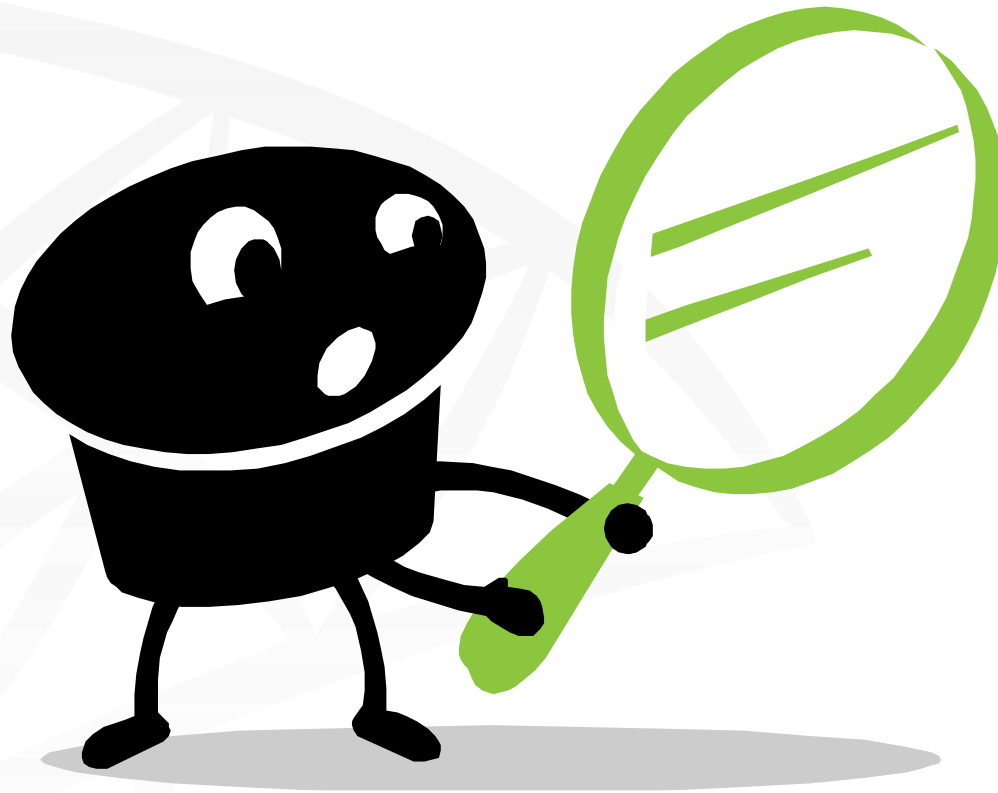
- Verify that the application pool identity for the Mysite Web application has the SPDataAccess right on the SQL content database

Database role membership for: 2010\_WSS\_Content\_contoso

- ☐ db\_accessadmin
- ☐ db\_backupoperator
- ☐ db\_datareader
- ☐ db\_datawriter
- ☐ db\_ddladmin
- ☐ db\_denydatareader
- ☐ db\_denydatawriter
- ☐ db\_owner
- ☐ db\_securityadmin
- ☒ public
- ☒ SPDataAccess
- ☐ SPReadOnly

# People Search

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# What is people search?

- It allows you to search for People 😊



Everything **People** Videos Reports

Relevance ▼

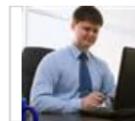


**John Emory**

Strategy Consultant  
Strategy Consulting

Ask me about: Capability Sourcing | Industry Best Practices | SPSS

My role at Contoso is Strategy Consultant. I enjoy dashboard projects. I recently participated on the Market Opportunity Ana...



**John Evans**

Marketing Specialist  
Marketing

Ask me about: Acrobat | Adobe Dreamweaver | ASP

My role at Contoso is Marketing Specialist. I enjoy working with ASP. I

**John Emory**

Past Projects  
Market Opportunity Analysis

Interests  
Horses

Schools  
Beech College

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## Department

Strategy Consulting

1099 Contractor

Marketing

Sales

## Job Title

Strategy Consultant

Marketing Specialist

Salesperson

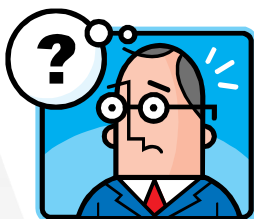




## People search possible issue

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- The Search Service application is working
- The user profile service application is working and people have modified their profile
- No people show up in the people search.



# Why?

- The default content access account needs the correct permissions set in the My Site service application.
- You need to have the following entry in the content source  
sps3://hostname

Type start addresses below (one per line): \*

```
http://SergePoint.com  
http://mysite.Sergepoint.com  
sps3://mysite.sergepoint.com:80
```

# Fix People search permissions



You need to set the permissions for the search crawler to Retrieve People Data.

- Open the SharePoint Central Administration site
- Go into Application Management
- Manage Service Application
- Highlight the User Profile Service Application line.
- In the ribbon, click on Administrators.
- Add the Default content access account (check what it is on the front page of the Search Administration page)
- Make sure that Retrieve People Data for Search Crawlers is checked.
- Click on OK.

## Administrators for User Profile Service Application

Specify the users who have rights to manage this service application. These users will be given access to the Central Administration site and will be able to manage settings related to this service application. Members of the Farm Administrators group always have rights to manage all service applications.

To add an account, or group, type or select it below and click 'Add'.

SPAdmin

SPContent

**SPSearchContent**

SPFarm

Add

To remove an account, or group, select it above and click 'Remove'.

Remove

### Permissions for SPSearchContent:

Full Control	<input type="checkbox"/>
Manage Profiles	<input type="checkbox"/>
Manage Audiences	<input type="checkbox"/>
Manage Permissions	<input type="checkbox"/>
Retrieve People Data for Search Crawlers	<input checked="" type="checkbox"/>
Manage Social Data	<input type="checkbox"/>

OK

Cancel

# Task aggregation not working

---





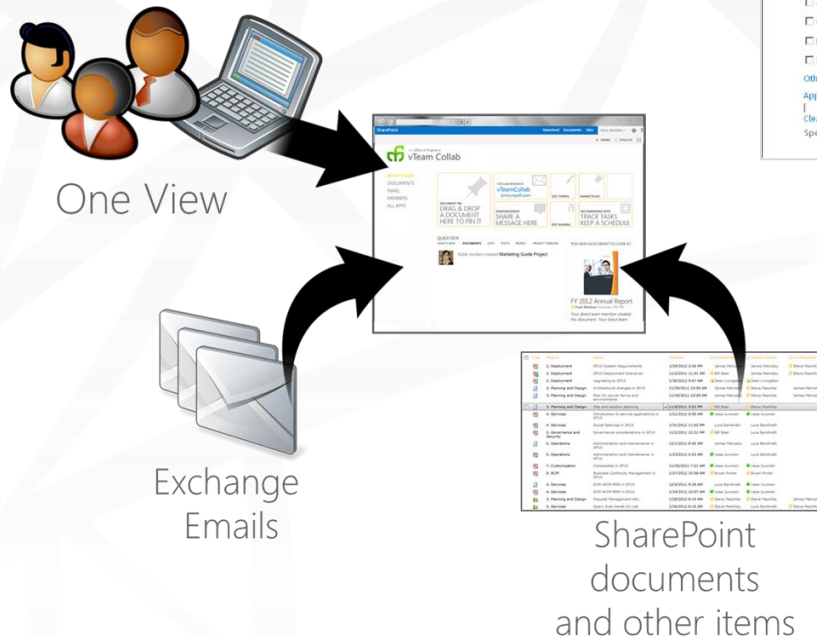
# Work Management Service

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- New service application
  - Allows users to aggregate and synchronize tasks between multiple environments, such as :
    - Project Server,
    - Exchange
    - SharePoint
  - It give users the ability to edit and change their tasks on one single place within the SharePoint farm.
-

# Tasks aggregation

- Single place for all tasks



SharePoint Newsfeed Documents Sites Vesa Jaronen

Name: Intranet Content

Query

Start Date: End Date:

Author/Sender: Enter users separated with semicolons

Advanced Query Options Search

Sources Modify Query Scope

Name	Items	Size
Intranet	151	1.02 MB
Intranet	17	593.61 KB
<b>Total</b>	<b>202</b>	<b>1.60 MB</b>

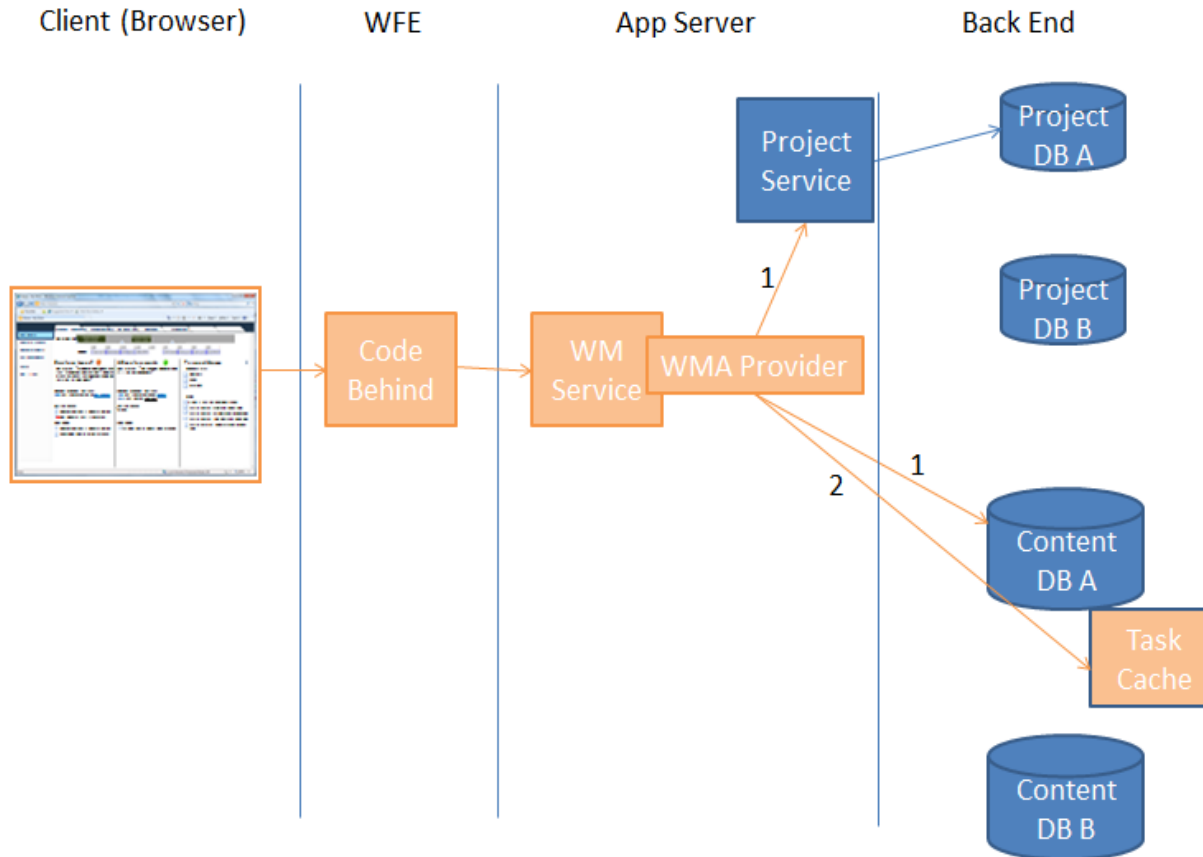
Exchange SharePoint

About 221 results

File Extension	Title	Author
aspx	Intranet	Vesa Jaronen Syste...
docx	Home - Intranet	
pptx	Newsfeed	
xlsx	Intranet	Administrator Syste...
Other Value	Hot Home	Vesa Jaronen Syste...
Apply	discovery	Vesa Jaronen
Clear all	Corporate Catalog	Administrator
Specify Property	Intranet - How To Use This Library	System Account*SH...
	Get started with your site	System Account*SH...
	Site Assets	System Account
	Microfeed	System Account



# Tasks aggregation



Important: the WM SSA only contact Search, My site and Project SSAs that are in the same proxy group





# Problem: My tasks last update 1901

## My Tasks

Important and Upcoming

Active

Completed

...

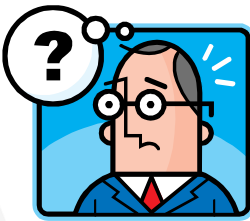
Find a task



Click to [add tasks](#)

Last updated at 1/1/1901 12:00 AM ⚠

# Why?



- Task aggregation is not configured by default
- Task aggregation has dependencies
- Right permission needs to be assigned to the application pool account that runs the work management service.



## My tasks dependencies

---

- Personal site is required
  - User Profile Service application needs to be configured
  - Search needs to be configured with incremental or continuous crawl
  - Work Management services needs to be provisioned and started on at least one server in the farm
  - Users will require a personal site. The personal site stores the hidden lists for the newsfeed and other items.
-

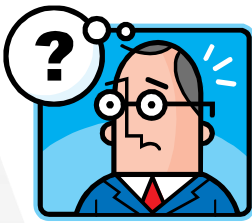


# Exchange Integration

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- To display Exchange tasks you need
    - Exchange 2013
      - Configure Exchange Server 2013 for Task Synchronization (PowerShell)
    - Install Exchange Web Services API on SharePoint Server and configure (PowerShell)
    - SharePoint 2013 user profile synchronization configured and working
    - SharePoint web application using SSL and claims based authentication
-

Why?



## Wrong Permission

- The application pool account used for the Work Management Service needs Full Permission on the User Profile Service Application



## Open Central Administration

- Manage Service Applications
- Single click on the row for the User Profile Service Application to select the row. (Do not click on the hyper link to the User profile service application as that will take us into the service application)
- With the row selected, click Permissions from the Sharing section on the ribbon.
- Add in the service account SergePoint\SPService

# Agenda

---

1. SQL configurations
  2. Using the Configuration Wizard
  3. Disable Loopback check
  4. Following not working
  5. People search not working
  6. Task aggregation not working
  7. Object cache account configuration
  8. X
  9. X
-

# Portal Super User and Super Reader configuration

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# Portal Super User and Super Reader configuration



- If you don't configure the Portal Super User Account and the Portal Super Reader account properly you could have:
  - Performance Issues
  - Access denied
  - Warning events in the event viewer
- The 2 accounts are used by the object cache



Access is denied:



# What is the object cache?

- The object cache stores properties about items in SharePoint Server 2013.
- Used by the publishing feature when it renders web pages.
- The goals of the object cache are:
  - To reduce the load on the computer on which SQL Server is running,
  - To improve request latency and throughput.
- The object cache makes its queries as one of two out-of-box user accounts: the Portal Super User and the Portal Super Reader.
- A configuration is required for this to work properly

Source: <http://technet.microsoft.com/en-us/library/ff758656.aspx>



## Required permissions

- Configured by default to use NT Authority\Local Service
- Must create two domain accounts to replace "NT Authority\Local Service"
  - The Portal Super User account must be an account that has Full Control access to the web application.
  - The Portal Super Reader account must be an account that has Full Read access to the web application.

<input type="checkbox"/>	(All zones)	Super User (Object Cache)	CONTOSO\SPCacheSuperUser	Full Control
<input type="checkbox"/>	(All zones)	Super Reader (Object Cache)	CONTOSO\SPCacheUser	Full Read

Fix



## Powershell is your friend!



```
$wa = Get-SPWebApplication -Identity "<WebApplication>"  
$wa.Properties["portalsuperuseraccount"] = "<SuperUser>"  
$wa.Properties["portalsuperreaderaccount"] = "<SuperReader>"  
$wa.Update()
```

## Or this for claims based authentication

```
$wa = Get-SPWebApplication -identity "http://<server>/"  
$wa.Properties["portalsuperuseraccount"] = "i:0#.w|domain\superuser"  
$wa.Properties["portalsuperreaderaccount"] = "i:0#.w|domain\superreader"  
$wa.Update()
```

# Agenda


---

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  8. Image rendition
  9. X
  10. X
-

# Image rendition

## Image Renditions ⓘ

The blob cache is not enabled in this web application. Image renditions will not be generated until the blob cache is enabled. For information on turning on the blob cache, please review the product documentation.

ID	Name	Width	Height	Edit	Delete
Add new item					
1	Display Template Picture 3 Lines	100px	100px		
2	Display Template Picture On Top	304px	100px		
3	Display Template Large Picture	468px	220px		
4	Display Template Video	120px	68px		

# What is image rendition

---

- Image renditions enable you to display differently sized versions of an image on different pages in a publishing site, based on the same source image.
- When you create an image rendition, you specify the width and/or height for all images that use that image rendition.
- The image renditions are available for every image that is uploaded to a library in that site collection.
- For example, designers can create an image rendition to display thumbnail images and another image rendition to display banner images.
- When an image is added to a page, the author can specify the image rendition to use on that image.

Source: <http://msdn.microsoft.com/en-us/library/jj720398.aspx>

---

# Image Rendition requirements

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- A publishing site collection
- A configured BLOB cache
- An asset library (recommended)



# Publishing site collection

- Site created using one of the following template
  - Publishing Portal
  - Product Catalog site
- Or activate the following features:



## SharePoint Server Publishing Infrastructure

Provides centralized libraries, content types, master pages and page layouts and enables page scheduling and other publishing functionality for a site collection.

Deactivate

Active



## SharePoint Server Publishing

Create a Web page library as well as supporting libraries to create and publish pages based on page layouts.

Deactivate

Active

# Configure Blob Cache

---

- Disabled by default
- must be enabled on front-end web servers
- Open the web.config file for the Web Application
- Find the following line:

```
<BlobCache location="C:\BlobCache\14"
path="\.(gif|jpg|jpeg|jpe|jif|bmp|dib|tif|tiff|themedbmp|themedcss|theme
dgif|themedjpg|themedpng|ico|png|wdp|hdp|css|js|asf|avi|flv|m4v|mov|m
p3|mp4|mpeg|mpg|rm|rmvb|wma|wmv|ogg|ogv|oga|webm|xap)$"
maxSize="10" enabled="false" />
```

- Change the location for a drive that is different than the Operating System
  - Make sure you have enough free space (maxSize="10" means 10 Gb)
  - Replace enabled="false" by enabled="True"
-

# Agenda

---

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  6. Task aggregation not working
  7. Object cache account configuration
  8. Image rendition
  9. No governance, no change management, no training plan
-

# Governance, Change management and training plan

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## No governance and change management plan

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This is not a technical misconfiguration, but it one of the **most important** one in order to achieve a great end user adoption.

- Build a governance plan
- Update your governance plan
- Communication plan
- Build a change management plan
- Build a training plan

If you do all this right your users will be



# Links

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Here is a list of links that where you can find more information on the topics covered.

- SQL Configurations
    - <http://technet.microsoft.com/en-us/library/cc298801.aspx>
    - <http://technet.microsoft.com/en-us/library/hh292622.aspx>
  - Configure Task aggregation
    - <http://technet.microsoft.com/en-us/library/jj554516.aspx>
  - Deploy people Search in SharePoint 2013
    - <http://technet.microsoft.com/en-us/library/hh582311.aspx>
  - Portal super reader/super user
    - <http://technet.microsoft.com/en-us/library/ff758656.aspx>
    - <http://www.sharepointchick.com/archive/2010/10/06/resolving-the-super-user-account-utilized-by-the-cache-is.aspx>
    - <http://technet.microsoft.com/en-us/library/ff758656.aspx>
-

# Links

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- Work Management Service
    - <http://blogs.technet.com/b/praveenh/archive/2013/08/22/work-management-service-application.aspx>
    - <http://www.microsoft.com/en-us/download/confirmation.aspx?id=38799>
  - Disable loopback check
    - <http://www.harbar.net/archive/2009/07/02/disableloopbackcheck-amp-sharepoint-what-every-admin-and-developer-should-know.aspx>
    - <http://support.microsoft.com/kb/896861>
  - Configure Caching and image rendition
    - <http://technet.microsoft.com/en-us/library/cc770229.aspx>
    - <http://msdn.microsoft.com/en-us/library/jj720398.aspx>
    - <http://technet.microsoft.com/en-us/library/jj219688.aspx>
  - Governance
    - <http://technet.microsoft.com/en-US/library/cc263356>
-

## More links

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- <http://office.microsoft.com/en-us/help/sharepoint-server-2013-known-issues-HA102919021.aspx>
  - <http://social.technet.microsoft.com/wiki/contents/articles/12438.sharepoint-2013-best-practices.aspx>
-



# Thank You!

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Thanks to <http://www.bobthebuilder.com> and  
Microsoft clipart gallery for the images

# Questions?

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Remember to fill out your evaluation forms to win some great prizes!

&

Join us for SharePint today!

Date & Time: Nov 23<sup>rd</sup>, 2013 @6:00 pm  
Location: The Observatory Pub,  
Algonquin Student's Association  
Address: A-170 on Algonquin Campus  
Parking: No need to move your car! \*  
Site: <http://www.algonquinsa.com/ob.aspx>