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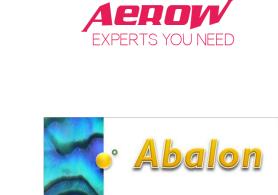


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Workflow for Everyone























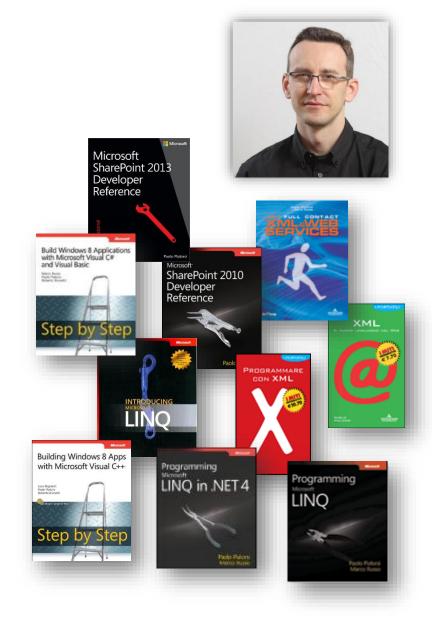


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About me

- Project Manager, Consultant, Trainer
- About 50 Microsoft certification exams passed
 - MCSM Charter SharePoint
 - MVP Office 365
 - Office 365 Dev PnP Core Team Member
- Focused on SharePoint since 2002
- Author of 10 books
- Speaker at main IT conferences



Agenda



- Understanding Hybrid Scenarios in SharePoint
- Hybrid Cloud Topologies
 - Hybrid Search Outbound
 - Hybrid Search Inbound
 - Hybrid Search Two-Way
 - Topologies for BCS
 - Topologies for SAP
- Other Services
- What's new with SharePoint 2016 and Office 365



Understanding Hybrid Scenarios in SharePoint

Why Hybrid Cloud does matter?



- The cloud optimizes businesses
 - Scalable
 - Accessible
 - Flexible
 - You pay as you go (lower TCO)
 - Etc.
- Right now, just a few enterprises are "cloud only"
- Much more have both services on-premises and on the cloud
 - They are moving gradually ...
 - Hybrid Cloud supports these kind of business

Office 365 and Hybrid Cloud

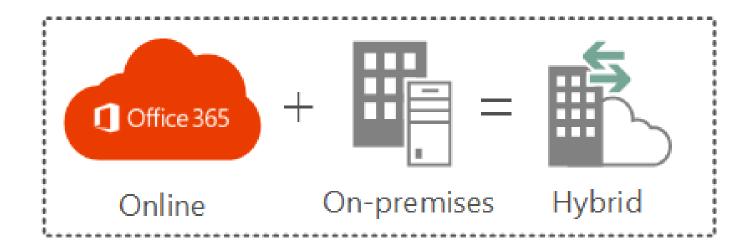


- When you have an Office 365 tenant
- And you have on-premises services
 - SharePoint Server 2013
 - Exchange Server 2013
 - Lync Server 2013
 - Business Data sources (DBMS, SOAP services, etc.)
 - SAP
- You can choose an hybrid deployment
- Leveraging Office 365, SharePoint, Exchange, Lync, and Azure

SharePoint Hybrid Scenarios in Office 365



- Hybrid Search
- Business Connectivity Services
- Duet Enterprise



Benefits of Hybrid SharePoint



- Search for content in both SharePoint Server 2013 and SharePoint Online at once
- Interact with on-premises business data from SharePoint Online
- Access corporate SAP systems from SharePoint Online
- Seamlessly access files and data in both SharePoint Server 2013 and SharePoint Online

Why Going Hybrid?



- Contents both on-premises and on the cloud
- Sharing users' accounts across on-premises and cloud
 - Single sign-on for users via ADFS
- Some business data (ERP, DBMS, DWH) are on-premises
- Performances, to avoid cross-premises/cross-network issues
- Independence from the cloud for some «business critical» data

Requirements for Hybrid Topologies



- Directory Federation via ADFS and Azure AD Sync
- Internet routable AD domains
- SSL certificates and secured communication channels
- Good bandwidth and Internet connectivity
- Office 365 Enterprise Subscriptions
- SharePoint Server 2013 Enterprise on-premises

Limitations of Hybrid Topologies



- Office 365 + DirSync does not support multi-forest environments
 - You will need the new Azure Active Directory Sync Tool
- Some Service Applications cannot be shared
 - User Profile Service
 - Managed Metadata Service
 - Word Automation Services
 - Workflow Services
 - Etc.



Demo

Let's see how Hybrid SharePoint behaves!



Hybrid Cloud Topologies

Available Topologies for Search



- One-way outbound
 - SharePoint Server 2013 Search services can query the SharePoint Online search index and return federated results to SharePoint Server 2013 Search.
- One-way inbound
 - SharePoint Online Search services can query the SharePoint Server 2013 search index and return federated results to SharePoint Online Search.
- Two-way
 - Both SharePoint Server 2013 and SharePoint Online Search services can query the search index in the other environment and return federated results.

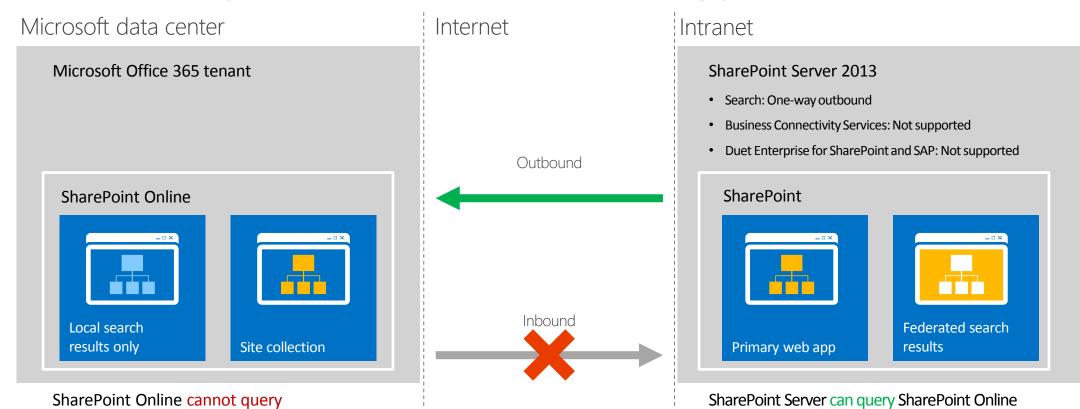


One-Way Outbound Search

One-way outbound topology

SharePoint Server





On-premises SharePoint Server 2013 Enterprise Search portal: Local and remote search results are available SharePoint Online search portal: Local search results are available

Requirements for one-way outbound



- An operational AD DS
 - Windows Server 2003 forest functional level or higher
- An internet public domain with DNS management
- An Office 365 Enterprise plan subscription provisioned
- An operational SharePoint Server 2013 Enterprise farm on-premises
- An on-premises ADFS deployment
 - Including the implied requirements
- An on-premises DirSync/AAD Sync server
- Replace the default STS certificate on-premises

Requirements for one-way outbound (more)



- SharePoint Server on-premises required services
 - User Profile Service
 - App Management Service
 - Microsoft SharePoint Foundation Subscription Settings Service
- Web Application with Integrated Windows Authentication NTLM
 - Can be a dedicated zone, which extends the default one
- Check OAuth requirements (HTTP/HTTPS) against your endpoint

Configure Server-to-Server trust (cont.)



- Install the following tools
 - The Microsoft Online Services Sign-In Assistant
 - The Azure Active Directory Module for Windows PowerShell
 - The SharePoint Online Management Shell
- Execute a bunch of PowerShell scripting to configure S2S with SharePoint Online
 - Upload STS certificate to SharePoint Online
 - Add SPN to Azure Active Directory
 - Register SharePoint Online AppPrincipal within on-premises farm
 - Configure an on-premises proxy for Azure AD

Search One-Way Outbound



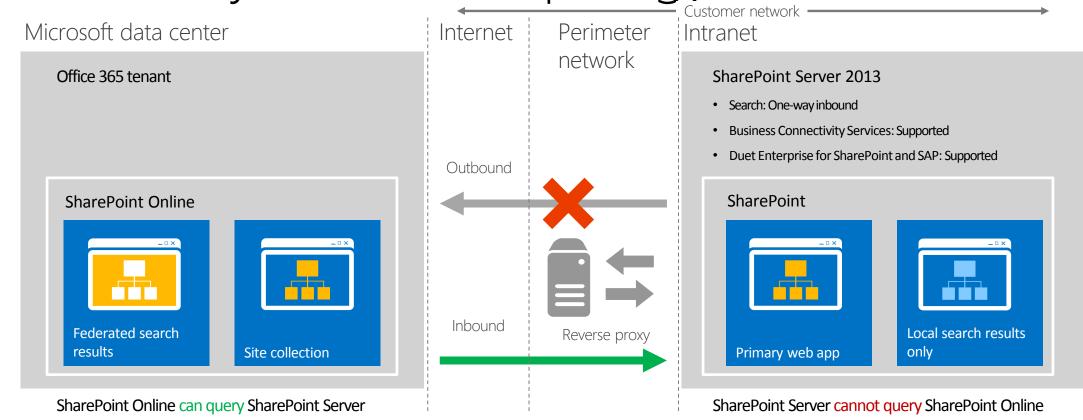
- Acting as a Search Admin in on-premises farm
- Configure a result source on SharePoint Server 2013
 - Protocol: Remote SharePoint
 - Provide Remote Service URL as https://<tenant>.sharepoint.com
 - Provide Default Authentication for Credentials
- Configure a query rule on SharePoint Server 2013



One-Way Inbound Search

One-way inbound topology





On-premises SharePoint Server 2013 Enterprise Search portal: Local search results are available

SharePoint Online search portal: Local and remote search results are available

Requirements for one-way inbound



- An operational AD DS
 - Windows Server 2003 forest functional level or higher
- An internet public domain with DNS management
- An Office 365 Enterprise plan subscription provisioned
- An operational SharePoint Server 2013 Enterprise farm on-premises
- An on-premises ADFS deployment
 - Including the implied requirements
- An on-premises DirSync/AAD Sync server
- A Reverse Proxy + SSL certificate (* or SAN Certificate)
 - SSL issued by a public and trusted CA
- Replace the default STS certificate on-premises

Requirements for one-way inbound (more)



- SharePoint Server on-premises required services
 - User Profile Service
 - App Management Service
 - Microsoft SharePoint Foundation Subscription Settings Service
- Web Application with Integrated Windows Authentication NTLM
 - Can be a dedicated zone, which extends the default one
 - HTTPS endpoint for External URL (which is the Public URL)
- Optionally configure May 2014 CU or later
- Check OAuth requirements (HTTP/HTTPS) against your endpoint

Requirements for one-way inbound (more)



- Configure a Target Application in Secure Store in SharePoint Online
 - Target Application ID: SecureChannelTargetApplication
 - Display Name: Secure Channel Target App
 - Credentials: Certificate + Certificate Password
- Set Credentials for Target Application

Configure a Reverse Proxy



- Supported: Windows Server 2012 R2 WA-P, TMG, F5 BIG-IP, Citrix Netscaler
 - http://technet.microsoft.com/en-us/library/dn607304.aspx
 - Updated 15-05-2015
- General Requirements
 - Client certificate authentication (* or SAN certificate)
 - Pass-through authentication for OAuth 2.0
 - Including unlimited OAuth bearer token transactions
 - Accept unsolicited inbound traffic on TCP port 443 (HTTPS)
 - Bind a wildcard or SAN SSL certificate to a published endpoint
 - Relay traffic to an on-premises SharePoint Server 2013 farm or load balancer without rewriting any packet headers



Continues like one-way outbound ...

Hybrid Search One-Way Inbound



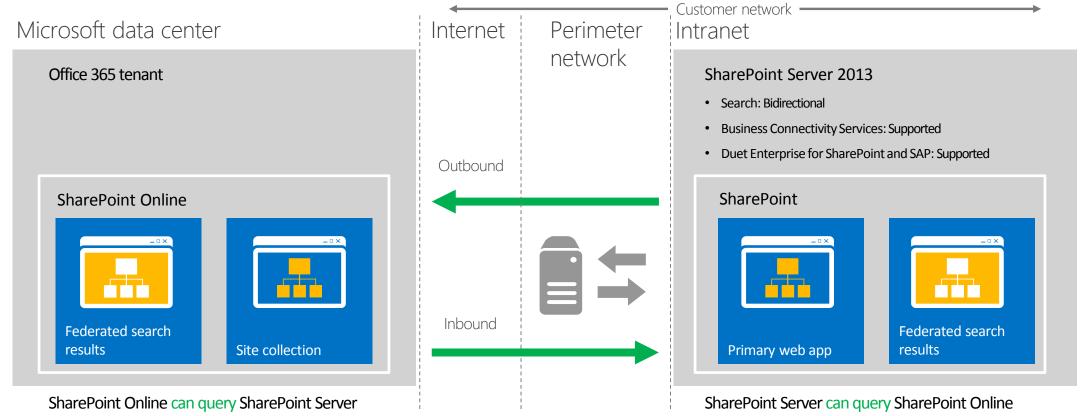
- Acting as a Global Admin for Office 365 tenant
- Configure a result source on SPO
 - Protocol: Remote SharePoint
 - Provide Remote Service URL as External URL of SP on-premises
 - Provide SSO Id for Credentials using «SecureChannelTargetApp»
- Configure a query rule on SPO



Two-Way Search

Two-Way topology





On-premises SharePoint Server 2013 Enterprise Search portal and SharePoint Online search portal: Local and remote search results are available. If extranet authentication services are configured, extranet users can log in remotely through an on-premises Active Directory account and use all available hybrid functionality.



Union of one-way inbound and one-way outbound ...



Other Hybrid Topologies

Available Topologies for BCS



- One-way inbound or Two-way
 - The SharePoint Online BCS service can connect to an on-premises SharePoint Server 2013 farm by using an app for SharePoint or an external list that is installed on a SharePoint Online site collection.
 - The BCS Service configured on the on-premises farm brokers the connection to on-premises OData Service endpoints and supports both read and write operations.
 - BCS hybrid solutions can be configured to support full CRUDQ (Create, Read, Update, Delete and Query) functionality.
 - Requires a two-way authentication topology
 - Requires OData services

Available Topologies for SAP Integration



- One-way inbound or Two-way
 - SharePoint Online users can perform both read and write operations against an on-premises SAP system. You can do this by either using an app for SharePoint that's installed on a SharePoint Online site collection or by enabling a Duet Enterprise Online feature.



Other Services

Social Features and Capabilities



- Social capabilities can't work across the two worlds
 - SharePoint 2013 on-premises and SharePoint Online are social «disconnected»
 - Users cannot act on documents in one world from the other one
- Yammer connects both SharePoint on-premises and SharePoint Online
- The Enterprise Social hybrid solution
 - Set Yammer as default social network engine
 - Both in Office 365 and in SharePoint 2013 SP1
 - Use the Yammer app to embed Yammer feeds wherever you need

OneDrive for Business



- You can leverage OneDrive for Business in Office 365
 - From SharePoint 2013 on-premises
 - Starting from SharePoint 2013 SP1
- Move the huge workload of users' personal documents to the cloud
 - Allow users to access their personal documents anywhere, everywhere, and from every device (PC, laptop, tablet, smartphone)

SharePoint Online External Sharing



- Allows vendors, clients, customers to access online sites and data
 - External Users are not-licensed people
 - They will need a Microsoft Account or an Office 365 UserID
- Internal users can share documents and sites
 - Can share direct guest (friendly and short) links, as well
 - For anonymous access to individual documents

Records Management



- Use on-premises records archive
 - For records coming from SharePoint on-premises or SharePoint Online
- Configure «send to» connection in SharePoint Online
 - To send records to the on-premises archive



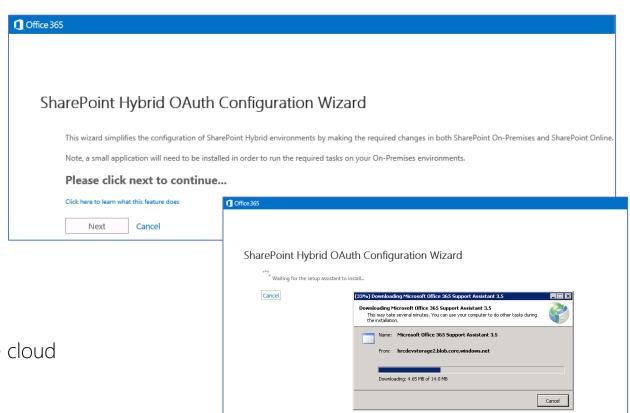
SharePoint 2016

What's new with Hybrid Scenarios?

Hybrid Scenarios with SharePoint 2016



- At Ignite Conference they "promised"
 - A wizard-like hybrid configuration
 - No more 15 pages of PowerShell scripts ◎ ...
 - Just a few clicks and the hybrid topology will be ready to go
 - Improved capabilities and features
 - Delve across premises
 - Complete integration of search results
 - Cloud Search Service Application
 - For SharePoint 2013 and 2016 (and 2010)
 - To crawl on-premises and store indexes on the cloud
 - The future of search? Maybe ...



Summary



- Office 365 and SharePoint 2013 can work together
- Hybrid Search
 - One-Way Outbound
 - One-Way Inbound
 - Two-Way
- Hybrid BCS
- Hybrid SAP Integration
- Other Hybrid Services
- Office 365 and SharePoint 2016 will work even better together

