Hybrid Lessons from the Field

SharePoint 2013

Office 365

February 19, 2015

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- Working with SharePoint since 2005
- Working with SQL Server since 2004

Microsoft CERTIFIED

Solutions Expert

SharePoint

Microsoft CERTIFIED

IT Professional

Database Administrator
2008

SharePoint Service Offering

Hosting & Deployment Services
- Enterprise SharePoint hosting
- Cloud Enablement
- Deployment Architecture
- Capacity Planning and sizing
- Infrastructure set-up
- Identity and access management
- Business Continuity & DR
- Performance Engineering

User Enablement
- First contact consulting
- Usability Analysis & Design
- User Training
- Functional Support

Business Solutions
- Collaboration & KM Portals
- Corporate Internet Sites / Microsites
- Business Productivity Applications
- Aggregation Portals
- Business Intelligence Portals
- Enterprise Social
- Mobility
- Search

Consulting
- Enterprise SharePoint Road mapping
- Cloud strategy and enablement
- Legacy Modernization Planning
- Information
- Architecture and Taxonomy
- Enterprise SharePoint Governance

Support and Maintenance
- ITIL Compliant Application Support
- SharePoint Administration
- Major / Minor Enhancements
- Shared Services
- Managed Services

Migrations
- SharePoint Version Upgrades
- Migration to Cloud
- Migration from Legacy sources (Lotus Notes , eRoom , Livelink etc.) / File Share/ HTML to SharePoint

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Agenda

- What is "Hybrid"?
- High Level Service Diagram
- Foundations of Hybrid
- Hybrid-enabled Services
- Services <u>not</u> Hybrid-enabled
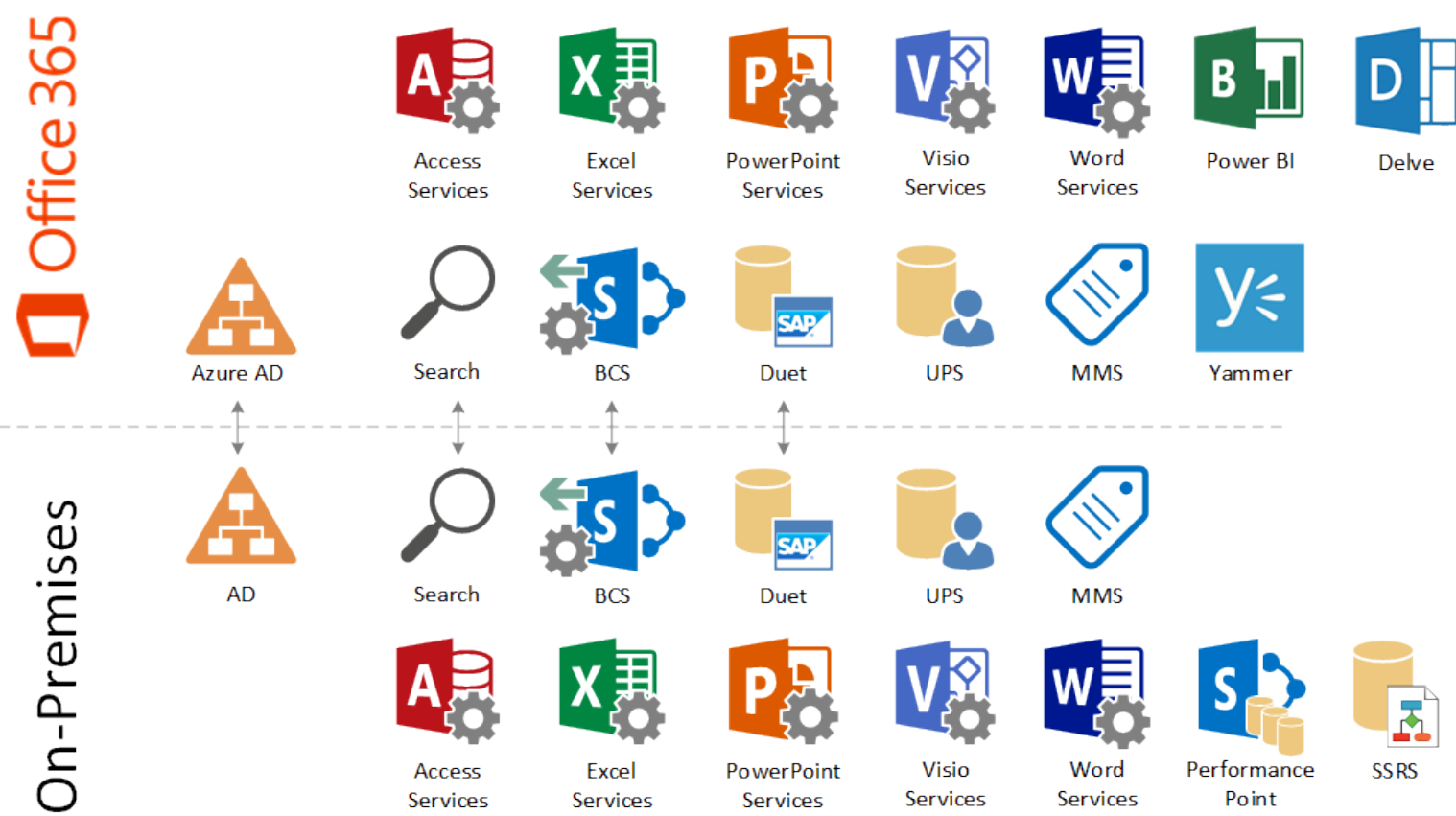- Considerations for your Deployment
- Wrap up / Q & A

Survey

1. How many are on SharePoint Online (SPO) today?
2. How many are currently deploying SPO?
3. How many are thinking about deploying SPO?
4. How many are just interested in learning more?

What is "Hybrid"?

Hybrid (n): Allowing users to access information and services across platforms, irrespective of where the information lives and how it is managed

Online + On-premises = Hybrid

High Level Service Diagram

Foundations of Hybrid

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Authentication

Source: http://blogs.office.com/2014/05/13/choosing-a-sign-in-model-for-office-365/

Authentication

	Cloud Identity	Cloud Identity + DirSync	Federated Identity
Scenario	▪ Smaller organizations with or without on-premises Active Directory	▪ Medium to Large organizations with Active Directory on-premises	▪ Large enterprise organizations with Active Directory on-premises
Benefits	▪ Does not require on-premises server deployment	▪ "Source of Authority" is on-premises ▪ Enables coexistence	▪ **Single Sign-On experience** ▪ "Source of Authority" is on-premises ▪ 2 Factor Authentication options
Limitations	▪ No Single Sign-On ▪ No 2 Factor Authentication options (*) ▪ Two sets of credentials to manage ▪ Different password policies	▪ No Single Sign-On ▪ No 2 Factor Authentication options (*) ▪ Requires on-premises DirSync server deployment (**)	▪ Requires on-premises AD FS server deployment in high availability scenario ▪ Requires on-premises DirSync server deployment

(*) Windows Azure AD Multi-Factor Authentication (MFA)
(**) Password Synchronization is an option

Source: http://summit.office.com/resources/download/634

Authentication – Federated Identity
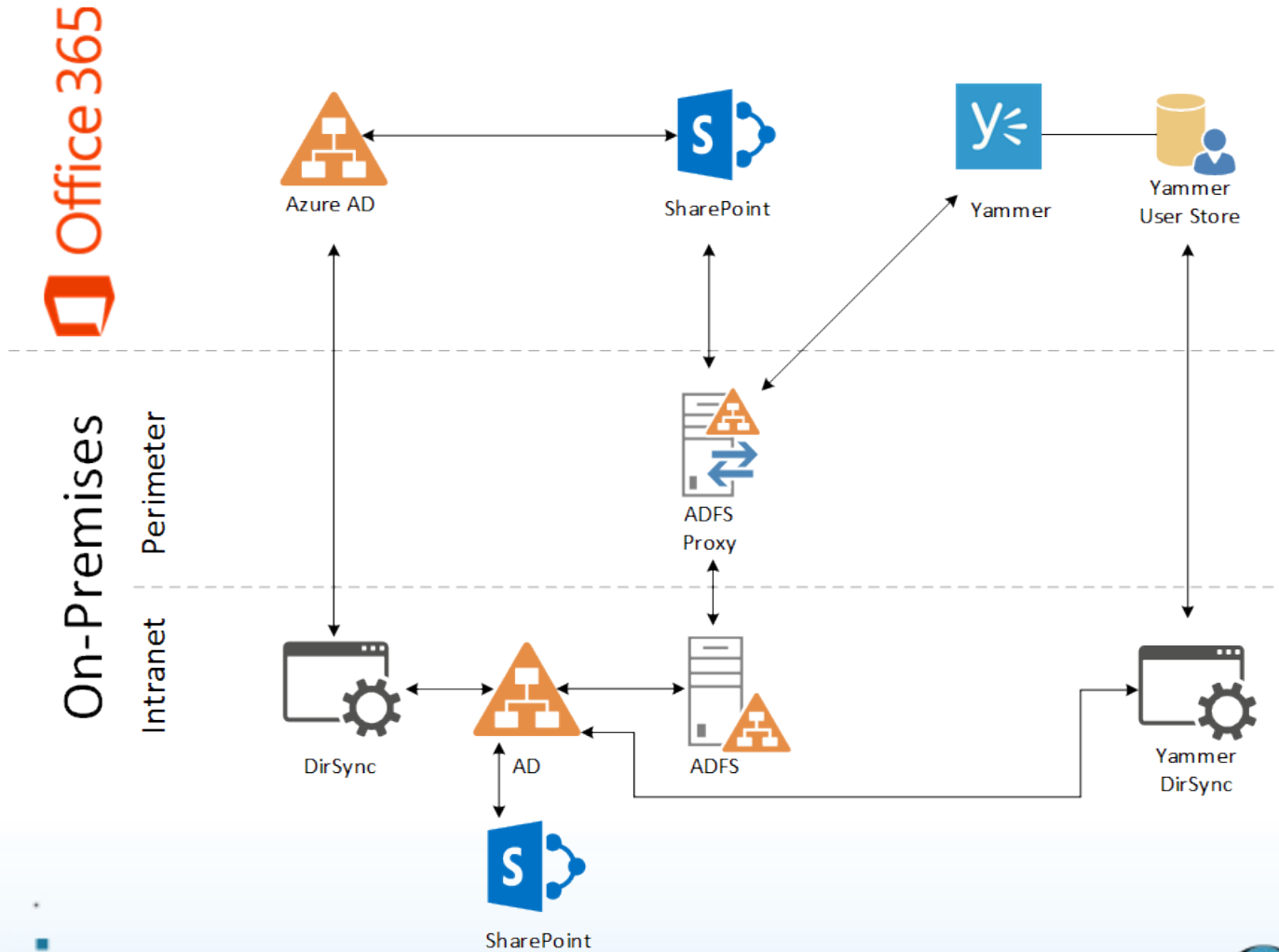
Hybrid-enabled Services

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Search Service
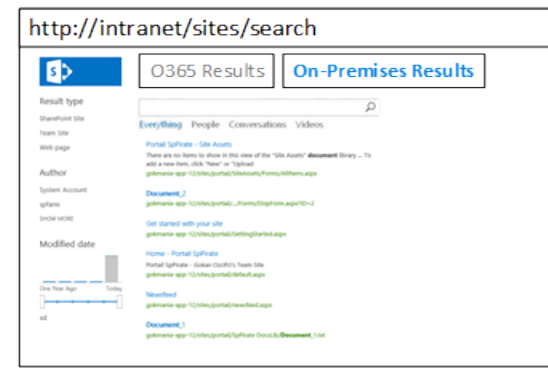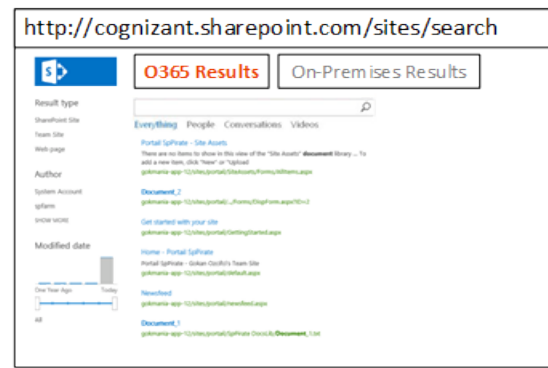
Business Connectivity Services (BCS)
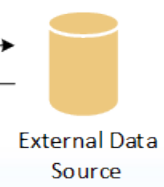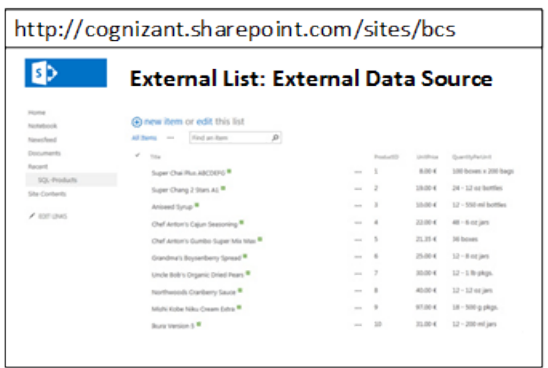
Duet Enterprise
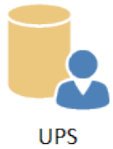
Services not Hybrid-enabled

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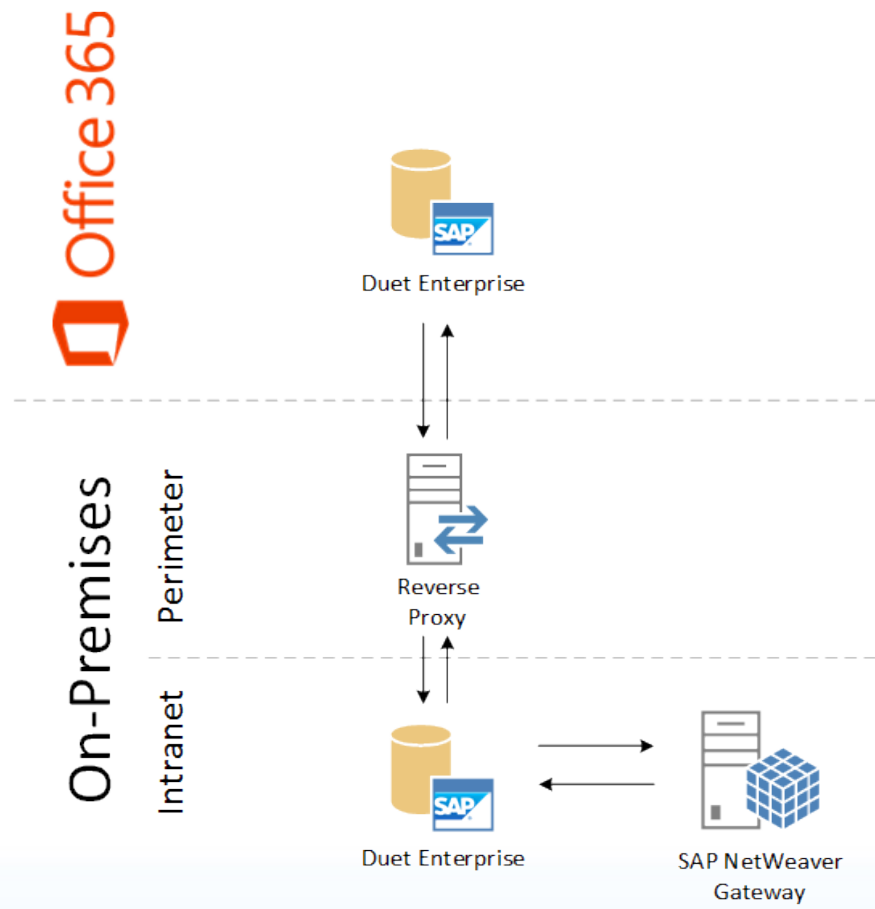
User Profile Service (UPS)

- There is no OOTB mechanism to publish the UPS from O365 to On-Premises
- If profile properties are being imported beyond AD attributes, the import will need to be configured in both places
- User-modifiable attributes such as "About Me" will need customization to be synced
- Microsoft provides code samples on their Patterns & Practices site to help build a solution https://github.com/OfficeDev/PnP

Managed Metadata Service (MMS)

Office 365

MMS

On-Premises

MMS

- Similar to the UPS, the MMS also lives independently in O365 and On-Premise

- There is no OOTB mechanism to sync them, nor publish one to the other

- Cognizant's recommended approach is to pick one to be the source-of-record and use governance to keep both in sync

- Microsoft provides code samples on their Patterns & Practices site to help build a solution
https://github.com/OfficeDev/PnP

OOTB Social

- SharePoint 2013 OOTB Social is not Hybrid-Enabled
- Not Possible to follow activities between O365 and On-Premises
- "News Stream" / "Activity Feed" act independently
- Yammer can be integrated with SSO to both O365 and your On-Premises Deployment

Delve formally known as "Oslo"

- As of this presentation, Microsoft Delve cannot accept "signals" from On-Premise SharePoint 2013

- Delve has a roadmap to open the API to allow for applications outside of O365 to send signals, but the dates are not yet confirmed

- Once this API is available, a certain level of customization will be required to your SP2013 farm in order to take advantage of this (unless future updates add this functionality)
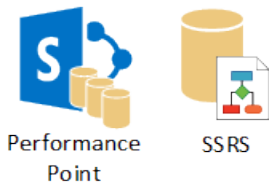
Other Services not Hybrid-Enabled
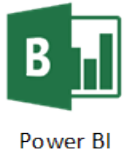
- PowerBI is only cloud-enabled and is considered a separate tenant that is licensed separately

- PerformancePoint and SSRS are currently only supported in On-Premises deployments

Considerations for your Deployment

Considerations for your Deployment

- Governance
    - Which services are required and where will they be offered?
    - What stays On-Premises and what goes to the Cloud?
    - How are sites provisioned and how are applications managed?
- Company Security Considerations
    - Will InfoSec allow the configuration of reverse proxies?
    - Will InfoSec allow identity federation and sync?
- SP2013 Service Pack 1 – Hybrid Improvements in UPS & Yammer
- Future Hybrid Evolution

Further Reading

Topic	URL
Hybrid Topologies	https://technet.microsoft.com/library/jj838715
Hybrid Search	https://technet.microsoft.com/en-us/library/dn197172
Hybrid BCS	https://technet.microsoft.com/en-us/library/dn197239
Hybrid Duet Enterprise	https://technet.microsoft.com/en-us/library/dn144962
Office 365 Roadmap	http://roadmap.office.com/en-us

Wrap Up

- Thank you for attending!
- This deck can be found on my blog: http://dimitri.spgurus.com
- Follow me on my Twitter: @dayrapetov
- Connect on LinkedIn: linkedin.com/in/dimitriayrapetov/
- Email me: Dimitri.Ayrapetov at Cognizant.com
- Q & A