Microsoft SharePoint 2013 Platform Options

What BDMs and architects need to know about Office 365, Microsoft Azure, and on-premises deployments

Hybrid with Office 365 SharePoint in Office 365 Microsoft Azure On Premises Directory

Gain efficiency and optimize for cost with Office 365 multi-tenant plans.

Software as a Service (SaaS).

Microsoft Azure Active

- Rich feature set is always up to date.
- Includes a Microsoft Azure Active Directory tenant (can be used with other

synchronization

- Directory integration includes synchronizing account names and passwords between the on-premises Active Directory environment and the Microsoft Azure Active Directory tenant.
- If single sign-on is a requirement, Active Directory Federation Services can be implemented.
- Client communication over the Internet through encrypted and authenticated access (port 443).
- Data migration is limited to what can be uploaded over the Internet.
- Customizations: Apps for Office and SharePoint, SharePoint Designer 2013.

Use Office 365 for external sharing and collaboration instead of

OData Service endpoints.

- Move My Sites (OneDrive for Business) to the cloud to make it easier

On-premises — All on-premises licenses apply.

Determine how much feature integration

See this model poster: Which hybrid

• If required, determine which proxy server

Configure the proxy server device, if

management infrastructure: SSO and

server-to-server authentication between

Configure the hybrid identity

the two environments.

topology should I Use?

device will be used.

is desired and choose the hybrid topology.

 Integrate an Office 365 site with on-premises BCS SharePoint environment.

SharePoint for Internet Sites — Public facing sites. Take advantage of

- Developer, test, and staging environments Quickly provision and unprovision entire environments.
- Hybrid applications Applications that span your datacenter and the

Take advantage of the cloud while maintaining full control

• Microsoft Azure is a platform that provides the infrastructure and app

- Disaster recovery environment Quickly recover from a disaster, only pay
- Farms that require deep reporting or auditing.
- Web analytics.
- Data encryption at rest (data is encrypted in the SQL databases).

Server Operating System

SQL Server

Private cloud solutions

Services.

Office 365).

Highly customized solutions.

SharePoint 2013 Server License

SharePoint 2013 Client Access License

License requirements

Architecture tasks

responsibilities

Subscription model, no additional licenses needed

Plan and design directory integration. Two

Password sync (requires one 64-bit

Single sign-on (requires ADFS and

Ensure network capacity and availability

Ensure user workstations meet Office 365

• Implement the directory integration plan.

• Plan and implement internal and external

Configure the proxy or firewall for Office

365 IP address and URL requirements.

through firewalls, proxy servers, gateways,

premises or in Microsoft Azure):

multiple servers).

and across WAN links.

client prerequisites

DNS records and routing.

options (either option can be deployed on

In addition to tasks for both the Office 365 and on-premises environments:

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Office 365 — Subscription model, no additional licenses needed.

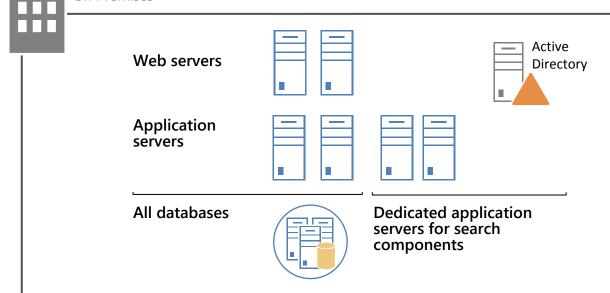
Design the Microsoft Azure network

- including subnets.
- IP addresses and DNS

Design the disaster recovery environment.

- Deploy and manage the Microsoft Azure and SharePoint environment
 - Increase or decrease virtual machine sizes.

- environment and protocol.



You own everything.

- Capacity planning and sizing.
- Server acquisition and setup.
- Deployment.
- Scaling out, patching, and operations.
- Backing up data.
- Maintaining a disaster recovery environment.

In-country farms (when data is required to reside within a jurisdiction).

Legacy solutions with third- party components that depend on hardware

and software that are not supported on Microsoft Azure Infrastructure

Privacy restrictions that prevent synchronization of Active Directory

accounts with Microsoft Azure Active Directory (a requirement for

Organizations that desire control of the entire platform and solution.

• Complex BI solutions that must reside close to BI data.

Customizations are not limited.

Best for . . .

Overview

- Secure external sharing and collaboration (unique feature!).
- Intranet team sites, My Sites, and internal collaboration. Document storage and versioning in the cloud.
- Basic public-facing website.

Additional features with Office 365 Dedicated Subscription Plans: Microsoft data center equipment that is dedicated to your company or

- organization and not shared with any other organization. Each customer environment resides in a physically separate network.
- Client communication across an IPSec-secured VPN or customer-owned private connection. Two-factor authentication is optional.

Acquire third-party SSL certificates to

Plan the tenant name, design site.

service offerings.

— not common.

for SharePoint Online.

provide enterprise-security for Office 365

collection architecture and governance

365 by using the Internet Protocol 6 (IPv6)

Plan customizations, solutions, and apps

Decide if you want to connect to Office

Create and assign permissions to site

apps for SharePoint Online.

possible bottlenecks.

• Implement customizations, solutions, and

Monitor network availability and identify

ITAR-support plans.

- setting up an extranet environment.
- for users to access their files remotely.

Combine the benefits of Office 365 with an on-premises

usiness Connectivity From SharePoint Online: Users can perform both read and

Users can see search results from both environments

Extranet users can log in remotely with an on-premises Active

Directory account and use all available hybrid functionality.

write operations. The BCS service connects to an on-premises

SharePoint Server 2013 farm. The BCS service configured on

the on-premises farm brokers the connection to on-premises

From SharePoint Online: Users can perform read and write

operations against an on-premises SAP system.

Start new team sites in Office 365.

deployment of SharePoint 2013

Choose which features to integrate.

Duet Enterprise

Microsoft Azure AD for customer accounts and authentication.

of the platform and features.

Customizations are not limited.

Infrastructure Services.

commitment.

services needed to host a SharePoint 2013 farm.

Inexpensive development and test environments.

• Best native cloud platform for SQL Server and SharePoint.

• Computing resources are available almost immediately with no

Focus on applications, instead of datacenters and infrastructure.

from a corporate environment through a site-to-site VPN tunnel.

SharePoint solutions can be accessible from the Internet or only accessible

- Microsoft Azure subscription (includes the server operating system)
- SQL Server
- SharePoint 2013 Server License
- SharePoint 2013 Client Access License

environment:

- Virtual network within Microsoft Azure,
- Domain environment and integration with on-premises servers.
- Affinity groups and storage accounts.

External Endpoints for public access, if

- Implement and manage the Microsoft Azure network environment.
- Deploy the SharePoint environment.
- Update SharePoint farm servers. Add or shut down virtual machines as needed based on farm utilization.

Microsoft Azure:

update domains

Virtual machines sizes.

Load balanced endpoint

- Backup the SharePoint environment. Implement the disaster recovery

Design the SharePoint environment in

SharePoint farm topology and logical

Microsoft Azure availability sets and

architecture. Server hardware. • Virtual environment, if used.

Load balancing

Design the SharePoint environment in an

SharePoint farm topology and logical

existing on-premises environment:

- Integration with Active Directory and DNS.
- Design the disaster recovery environment.

Deploy and manage the SharePoint on premises environment

- Provision servers. Backup the SharePoint environment • Implement the disaster recovery Deploy the SharePoint environment
- Update SharePoint farm servers. Add or remove farm servers as needed

based on farm utilization.

environment and protocol.

Three Make-Sense Workloads to Move to Microsoft Azure



IT Pro

Office 365 + Directory Components in Microsoft Azure

Deploying Office 365 directory integration components in Microsoft Azure is faster due to the ability to deploy Virtual Machines on-demand.

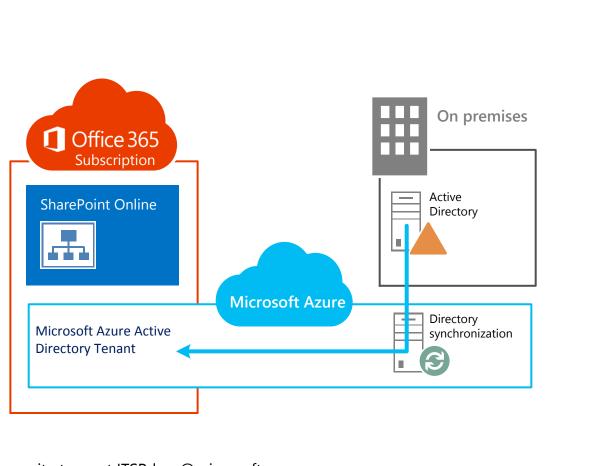
Directory synchronization server only Instead of deploying the 64-bit directory synchronization server in your on-

premises environment, provision a virtual machine in Microsoft Azure instead (illustrated right).

Directory synchronization + Active Directory Federation Services This option allows you to support Office 365 federated identities (single signon) without adding hardware to your on-premises infrastructure. It also

provides resiliency if the on-premises Active Directory environment is • Directory integration components reside in Microsoft Azure. • AD FS is published to the Internet through AD FS proxies in Microsoft

• Client authentication traffic, for users that are connecting from any location, is handled by AD FS servers and proxies that are deployed on Microsoft Azure.



infrastructure.

Public-facing Internet Site + Microsoft Azure AD for Customer authentication

Configure the integration of chosen

features: search, BCS, Duet Enterprise

Take advantage of the ability to easily scale to demand by placing your Internet site in Microsoft Azure. Use Microsoft Azure Active Directory to store customer accounts.

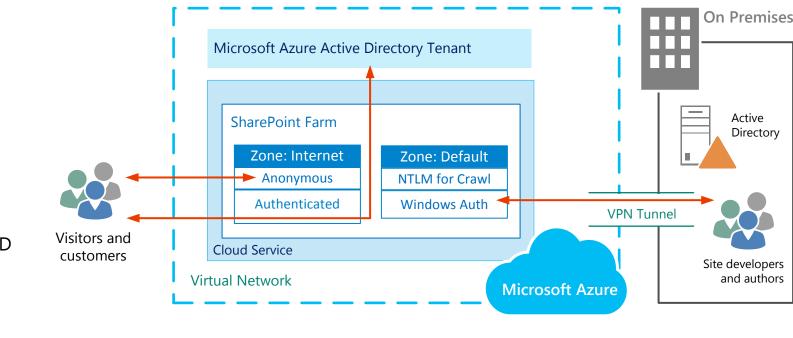
Online.

Microsoft Azure advantages for Internet sites Pay only for the resources you need by scaling the

- number of VMs based on farm utilization.
- Add deep reporting and Web analytics. Focus on developing a great site rather than building

Microsoft Azure Active Directory Microsoft Azure AD provides identity management and access control capabilities for cloud services. Capabilities include a cloud-based store for directory data and a core set of identity services, including user logon processes authentication services, and Federation Services. The identity services that are included with Microsoft Azure AD easily integrate with your on-premises Active Directory deployments and fully support third-party identity

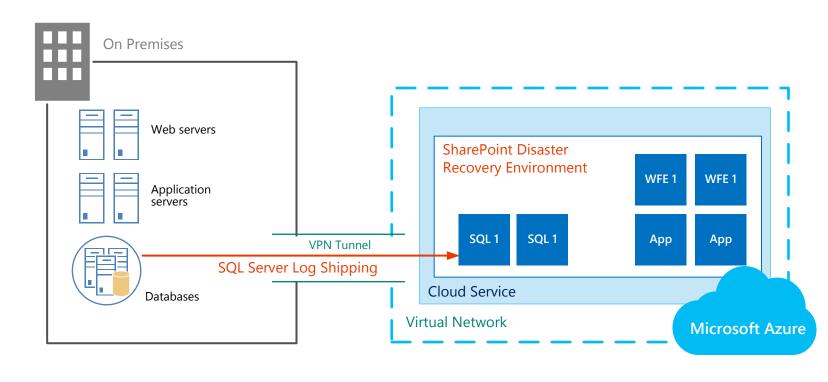
The configuration of zones and authentication is important for Internet-facing sites. Microsoft Azure Active Directory Tenant



On-premises Farm + Disaster Recovery in Microsoft Azure

Choose a disaster recovery option that matches your business

requirements. Microsoft Azure provides entry-level options for companies getting started with disaster recovery, as well as advanced options for enterprises with high resiliency requirements.



Cold standby

• The farm is fully built, but the VMs are stopped (you're only paying when they're

 Maintaining the environment includes starting the VMs from time-to-time, patch, update, and verify the environment

• Start the full environment in the event of a

Warm standby • Includes a small farm that is provisioned and

on standby.

• The farm can immediately serve a few

thousand users in the event of failover. • Scale out the farm quickly to serve the full user base.

Hot standby A fully-sized farm is provisioned and running