Microsoft Lync 2013 Platform Options

What BDMs and architects need to know about Lync Online (Office 365) and Lync Server deployments

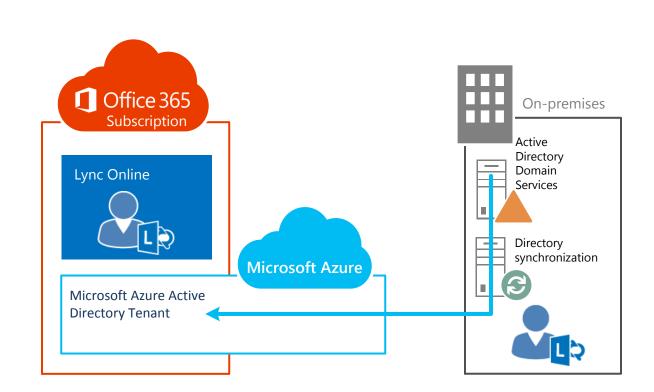
Lync Online (Office 365)

Lync Online/Server Hybrid (split domain)

Lync Server

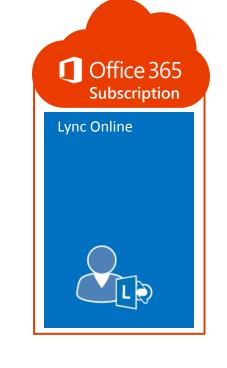
Provider-Hosted Lync Server

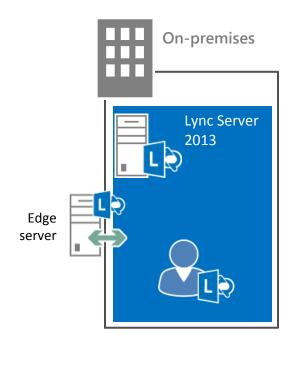
Overview



Gain efficiency and optimize for cost with Office 365 multitenant plans.

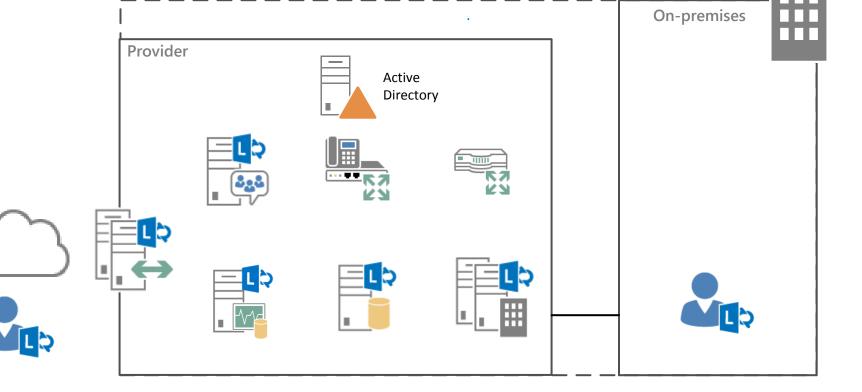
- Software as a Service (SaaS).
- Rich feature set is always up to date.
- Includes a Microsoft Azure Active Directory tenant for online accounts, which can be used with other applications.
- Directory integration includes synchronizing account names and passwords between the on-premises Active Directory Domain Services (AD DS) environment and the Microsoft Azure Active Directory tenant.
- If single sign-on is a requirement, Active Directory Federation Services (AD
- FS) must be implemented.
- Client communication over the Internet is encrypted and authenticated. Legacy phone equipment (public switched telephone network [PSTN]) connectivity available through third-party providers (check availability).





You own everything.

- Capacity planning and sizing.
- Server acquisition and setup.
- Deployment. Scaling out, patching, and operations.
- Backing up data.
- Maintaining failover and disaster recovery.
- Connecting your Lync Server 2013 infrastructure to the PSTN.
- Integration with existing phone equipment, such as private branch exchanges (PBXs).



Your provider owns everything.

- Capacity planning and sizing.
- Server acquisition and setup.
- Deployment.
- Scaling out, patching, and operations.
- Backing up data.
- Maintaining failover and disaster recovery.
- Integration with existing phone equipment, such as private branch exchanges (PBXs).

- Install their servers and equipment in their own network with a connection to your premises (solid line).
- Install their servers on your premises (dotted line).

Best for . . .

- No operational burden of on-premises servers or server software.
- Communication capabilities of Lync Server 2013 as a cloud-based service.
- Lync presence, instant messaging, audio and video calling, rich online meetings, and extensive web conferencing capabilities.
- Geographically-dispersed organizations or with primarily mobile employees.
- Use Lync Online for remote users and integration with business

Combine the benefits of Office 365 with an on-

online, but the users share the same SIP domain, such as

• Some users are homed on-premises and some users are homed

• Leverage your existing Lync Server 2013 infrastructure, including

Easily add new Lync Online users that do not require PSTN access.

• Migrate from Lync on-premises to Lync Online over time, on your

Integrate with other Microsoft Office 365 applications, including

premises deployment of Lync 2013.

Exchange Online and SharePoint Online.

connections to the PSTN.

Office 365 — Subscription model.

for requests from Office 365.

 Facilitate a migration from Lync on-premises to Lync Online. Support remote sites without using a branch office appliance.

On-premises — All on-premises licenses apply (see next column).

Determine how much feature integration with on-premises

and online versions of Exchange Server and SharePoint is

• If required, determine which proxy server device will be used

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

- Ease of adding Lync support for new business acquisitions.
- Private cloud solutions.
- Highly customized solutions.
- Legacy solutions with third-party components that depend on hardware and software that are not supported by Lync Online.
- Privacy restrictions that prevent synchronization of AD DS
- accounts with Office 365. • Organizations that desire control of the entire platform and
- PBX replacement with Lync Enterprise Voice.
- Server Operating System
- SQL Server • Lync 2013 Server License
- Lync 2013 Client Access License

Design the Lync environment in an existing on-premises environment:

- Lync topology for central and branch offices.
- Server hardware, including virtualization.
- Integration with Active Directory Domain Services (AD DS) and
- Load balancing for Lync server pools.
- Failover and disaster recovery

- Provision servers.
- Deploy the Lync topology.
- Update Lync servers.
- · Add or remove topology servers as needed based on utilization.

A provider can:

Organizations that want Lync Server functionality but want to

- outsource its deployment and maintenance. Provider-based solutions.
- Highly customized solutions.

service provider's network.

Work with the provider to:

equipment.

provider's Lync servers on your network.

Integrate Lync Server into your network.

 Legacy solutions with third-party components that depend on hardware and software that are not supported by Lync Online.

Costs are based on the agreement with your Lync solution provider.

For a cloud-based installation, determine the connection to the

For an on-premises installation, determine the placement of the

For both types, determine the integration with AD DS and your PBX

Monitor adherence with provider service level agreement (SLA).

Integrate Lync Server with other Microsoft products or custom solutions

PBX replacement with Lync Enterprise Voice.

License requirements

Architecture tasks

Plan and design directory synchronization.

Subscription model

- Ensure network capacity and availability through firewalls, proxy servers, gateways, and across WAN links.
- Acquire third-party SSL certificates to provide enterprise-security for Office 365 service offerings. • Decide if you want to connect to Office 365 with Internet Protocol version 6
- (IPv6).

Implement the directory synchronization plan.

- Plan and implement internal and external DNS records and routing. Configure your proxy or firewall for Office 365 IP address and URL
- Administer user accounts and Lync Online settings.

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

- Configure the proxy server device, if required.
- Configure the integration of features with on-premises and online versions of Exchange Server and SharePoint.

Deploy and manage the Lync on-premises environment:

- Implement the failover and disaster recovery environment.

More information

responsibilities

IT Pro

Lync Online Service Description at http://aka.ms/lync-online-servicedescription

Microsoft Lync for Enterprises Reference Topologies at http://aka.ms/ Wwwa8x

Lync Features Comparison Chart at http://aka.ms/Ee0hwo

Directory Synchronization components in Microsoft Azure

Deploying Office 365 directory synchronization 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-

Directory synchronization + AD FS

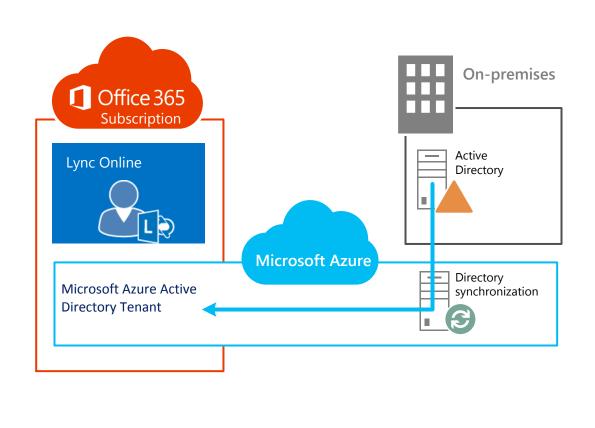
Microsoft Azure VMs.

premises environment, provision a virtual machine (VM) in Microsoft Azure over the Internet instead.

This option allows you to support Office 365 federated identities (SSO) without adding hardware to your on-premises infrastructure. It also provides resiliency if the on-premises Active Directory environment is unavailable.

 Directory integration components run as Microsoft Azure VMs. • AD FS is published to the Internet through AD FS proxies running as Microsoft Azure VMs. Client authentication traffic, for users that are connecting from any

location, is handled by AD FS servers and proxies that are deployed as



Lync integration with Exchange and SharePoint in Office 365

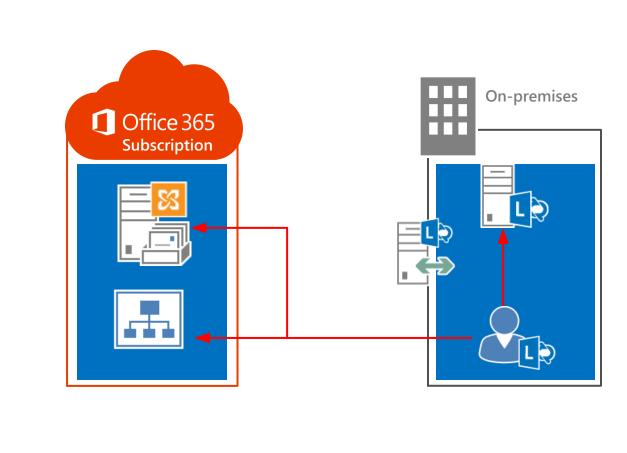
Lync Server with Exchange Online and SharePoint Online

Advantages

- Use the full feature set of Lync Server 2013.
- Leverage your existing on-premises phone equipment, such as PBXs. • Use Exchange Online for email, off-loading

the burden of on-premises email servers

- and storage. Use SharePoint Online for collaboration, off-loading the burden of maintaining on-
- premises SharePoint servers. Use Lync, Exchange, and SharePoint integrated features, including Unified Messaging (UM) in Office 365.



Exchange Server with Lync Online

Advantages

- Leverage your existing Exchange infrastructure.
- Use Lync Online for presence, IM, and conferencing capabilities.

