

# Microsoft Exchange 2013 Platform Options

What BDMs and architects need to know about Exchange Online and Exchange Server deployments

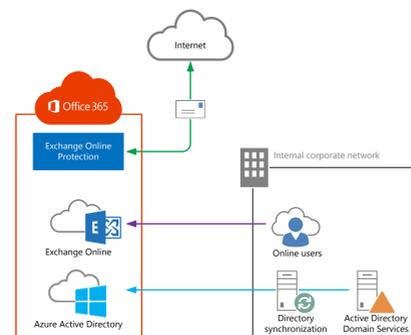
## Exchange Online (Office 365)

## Exchange Hybrid

## Exchange Server on-premises

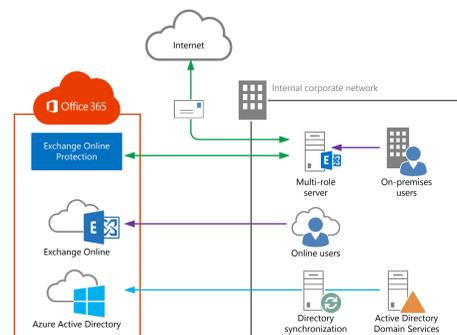
## Provider-Hosted Exchange

### Overview



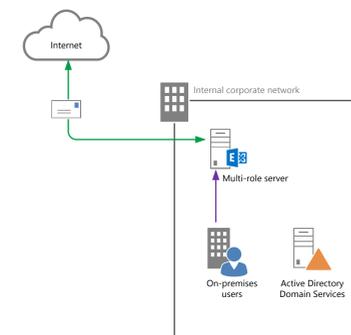
#### Gain efficiency and reduce costs with Office 365

- Operations of servers and server software handled by Microsoft
- Rich feature set of Exchange Server 2013 as a cloud-based service
- Always up-to-date with the newest features
- Exchange Online Protection (EOP) included for anti-spam/anti-malware protection
- Built-in high availability with 99.9% SLA
- Directory synchronization including passwords between the on-premises Active Directory Domain Services (AD DS) and the Microsoft Azure Active Directory tenant. (Active Directory Federation Services (AD FS) is necessary for single sign-on)



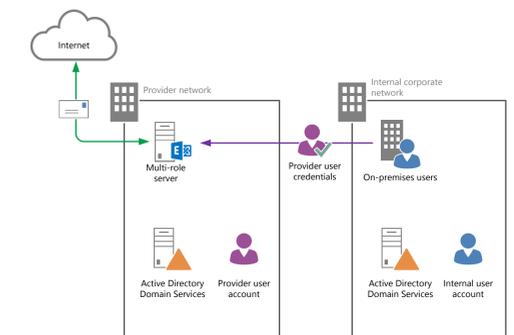
#### Leverage the benefits of Office 365 while maintaining Exchange Server on-premises

- Some users are homed on-premises and some users are homed online, and users share the same e-mail address space
- Leverages your existing Exchange Server infrastructure
- Migrate from Exchange on-premises to Exchange Online over time, on your schedule
- Integrate with other Microsoft Office 365 applications, including Lync Online and SharePoint Online



#### Design and manage your own Exchange Server 2013 infrastructure

- Greatest degree of control and customization on your configuration
- No dependency on session affinity being maintained at the load balancing layer
- Simple high availability and site resilience using Database Availability Groups
- Managed Availability that helps you maintain a great user experience
- Leverage existing hardware and storage infrastructure



#### Outsource your Exchange Server workload to an Exchange Server solutions provider

- Operations of servers and server software handled by your provider
- Planning, sizing, scaling and maintenance of Exchange Server infrastructure is delegated to your provider
- Service maintenance is handled by your provider
- Exchange feature set limited to software version deployed by provider

### Best for . . .

- Organizations looking to reduce operations costs for on-premises Exchange deployments
- Organizations that plan to leverage other Office 365 offerings like SharePoint Online and Lync Online

- Facilitating a migration from Exchange on-premises to Exchange Online
- Supporting remote sites without investing in branch office infrastructure
- Multinational corporations with subsidiaries that require data to reside on-premises

- Highly customized solutions
- Legacy solutions with third-party components that depend on hardware and software that are not supported by Exchange Online
- Organizations subject to data governance regulations that require data to reside on-premises
- Organizations that wish to retain control of the entire platform and solution

- Organizations that need Exchange Server functionality, but want to outsource its deployment and maintenance
- Organizations that need personalized support options
- Customized solutions and integration with custom applications offered by the provider
- Legacy solutions with third-party components that depend on hardware and software that are not supported by Exchange Online

### License requirements

Subscription model

- Office 365 — Subscription model
- On-premises — All on-premises licenses apply (see next column)
- Hybrid server license\*

- Server Operating System
- Exchange 2013 Server License
- Exchange 2013 Client Access License

Costs are based on the agreement with the provider

### Architecture tasks

- Plan and design directory synchronization
- Ensure network capacity and connectivity through firewalls, proxy servers, gateways, and across WAN links

- In addition to tasks for both the Office 365 and on-premises environments:
- Decide whether to provide single-sign on experience
  - Decide whether to route inbound Internet mail through on-premises organization or Exchange Online Protection

- Design the Exchange topology
- Plan capacity for server hardware
- Design the message routing topology
- Design load balancing for Client Access servers
- Plan for high availability using Database Availability Groups

- Ensure network capacity and availability through firewalls, proxy servers, gateways, and across WAN links

### IT Pro responsibilities

- Implement the directory synchronization plan
- Plan and implement internal and external DNS records and routing
- Configure proxy server or firewall for Office 365 IP address and URL requirements
- Administer user accounts and Exchange Online settings

- In addition to tasks for both the Office 365 and on-premises environments:
- Configure Active Directory Federation Services (AD FS) for single-sign on (if desired)
  - Configure Exchange certificates for secure communications between Exchange 2013 Servers and Office 365
  - Configure DNS records for the desired inbound Internet mail path

- Configure the necessary certificates for Exchange services
- Provision servers
- Implement the Exchange message routing topology
- Implement Database Availability Groups
- Update and maintain Exchange servers
- Add or remove servers as needed based on utilization

- Provider's responsibilities:
- System and service maintenance
  - Feature rollouts
  - Data protection and disaster recovery
- Your IT staff's responsibilities:
- User account creation and management

### More information

Exchange Online service description: <http://aka.ms/EXOSD>  
Exchange Online library on TechNet: <http://aka.ms/EXOTN>  
Exchange Online portal: <http://aka.ms/EXO>

Exchange 2013 hybrid deployments: <http://aka.ms/ExchangeHybrid>  
\* Hybrid server license is only required for the following scenarios:  
• Exchange 2010 organization with Exchange 2013 hybrid server  
• Exchange 2007 organization with Exchange 2013 or Exchange 2010 hybrid server  
For more information, see: <http://aka.ms/HybridKey>

Exchange Server 2013 library on TechNet: <http://aka.ms/Ex2013TN>  
Exchange Server 2013 portal: <http://aka.ms/Exchange2013>  
Exchange Server 2013 architecture: <http://aka.ms/Ex2013SP1ArchPoster>

Exchange Server 2013 hosting and multi-tenancy solutions and guidance: <http://aka.ms/Ex2013Hosting>

## Exchange Online Protection

### Anti-spam and anti-malware protection for any deployment

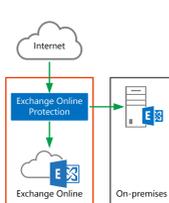
Exchange Online Protection (EOP) provides a layer of protection features that are deployed across a global network of data centers, helping you to simplify the administration of your messaging environments. EOP is included in Exchange Online subscriptions, but you can also leverage it for hybrid and on-premises deployments.



#### Exchange Online



#### Exchange Hybrid



#### Exchange On-Premises

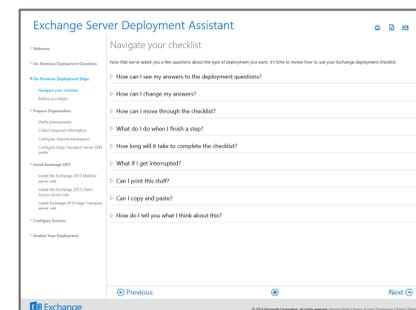
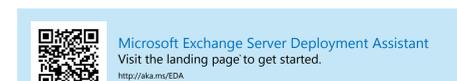


## Exchange Server Deployment Assistant

### Your guide to deploying Exchange

The Exchange Server Deployment Assistant is a web-based tool that asks you a few questions about your current environment and then generates a custom step-by-step checklist that will help you deploy Exchange Server for different types of scenarios.

Whether you are migrating from a previous version of Exchange to Exchange 2013, migrating to Exchange Online, or planning a hybrid infrastructure, the Exchange Server Deployment Assistant will create a customized deployment checklist for your scenario.



Screenshot of Exchange Server Deployment Assistant checklist for a new deployment

## Integration with Lync and SharePoint

### Improve collaboration across your organization

Exchange Server 2013 includes many features that integrate with Lync Server 2013 and SharePoint Server 2013. Together, these products offer a rich suite of features. See the following resources for more information.



- Archiving, hold and eDiscovery
- Site mailboxes
- Unified contact store
- High-resolution user photos
- Lync presence in Outlook and Outlook Web App
- Server-to-server authentication
- Voicemail
- Meeting recordings
- Exchange task synchronization



Server-to-server authentication poster



Exchange Server 2013 SP1 Architecture poster