Office 365 Security, Privacy and Compliance



Robert Crane

http://about.me/ciaops

Agenda

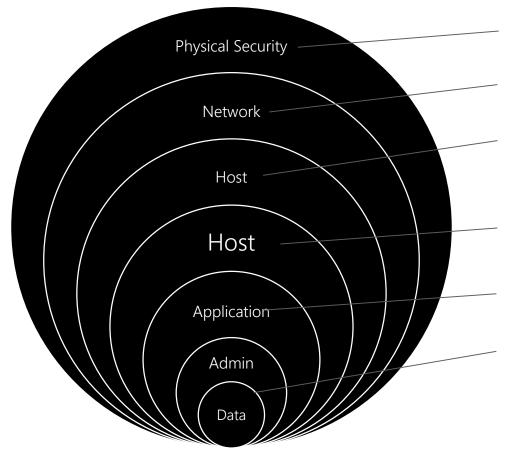
- Common Business Requirements
- Security features of Office 365
- Compliance features of Office 365
- Security and compliance within plans
- Configuration of security and compliance options
- Best practices.
- Take aways.

Common Business Requirements

- Security
 - Is my information safe?
- Retention
 - What happens when an employee leaves?
- Policies
 - How do we manage our information?
- Auditing
 - What's happening to the information?
- Control
 - Who has access to the information?
- Reporting
 - How do I know what's happening with the information?

Security

Defense in depth



Physical controls, video surveillance, access control

Edge routers, firewalls, intrusion detection, vulnerability scanning

Access control and monitoring, anti-malware, patch and configuration management

Secure engineering (SDL), access control and monitoring, anti-malware

Account management, training and awareness, screening

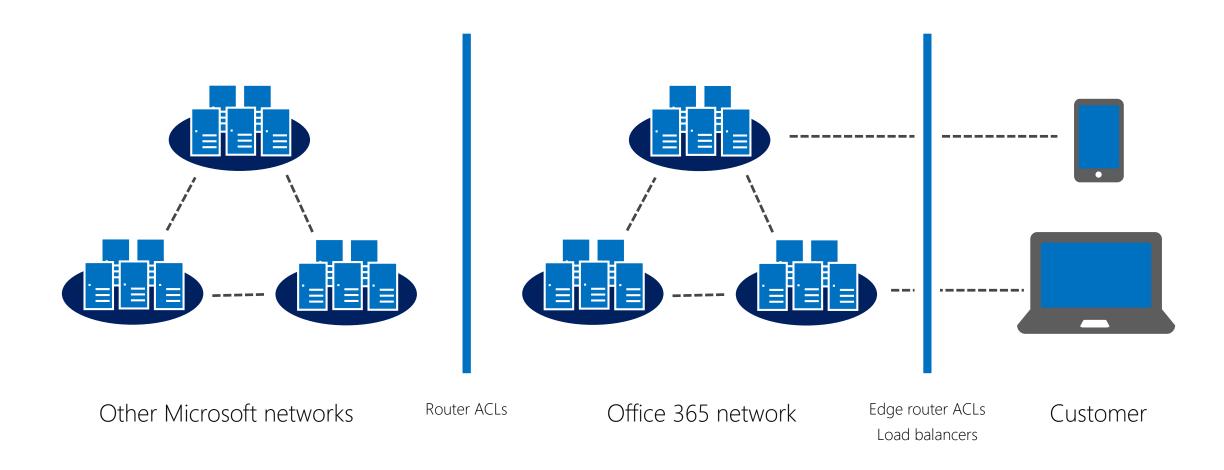
Threat and vulnerability management, security monitoring, and response, access control and monitoring, file/data integrity, encryption

Independently verified to meet key standards – ISO 27001, SSAE 16, FISMA

Physical security



Network security



Host/application

Patching/malware protection

Whitelisted processes

Security development lifecycle

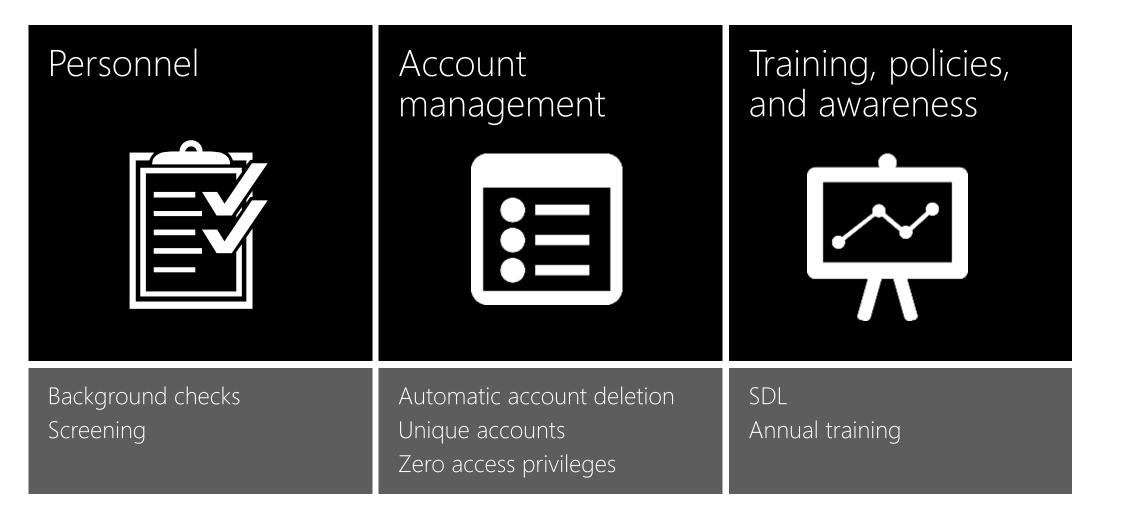
Automated tooling for routine activities

Zero standing permissions in the service

Auditing of all operator access and actions



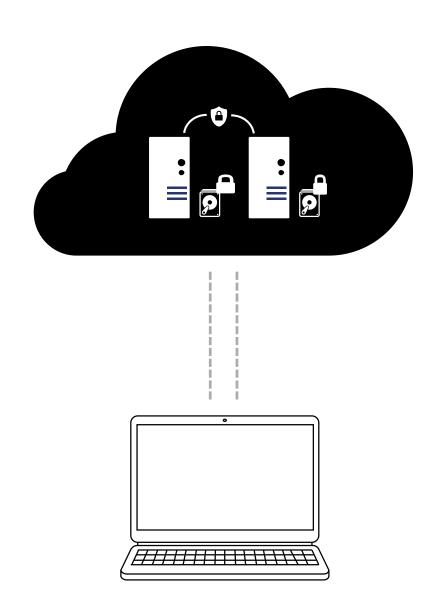
Administrators



Default Encryption

- Data in transit
- Strong SSL/TLS cipher suite
- Perfect Forward Secrecy
- Datacenter-to-datacenter encryption

- Data at rest
- BitLocker disk encryption
- Per-file encryption for customer content



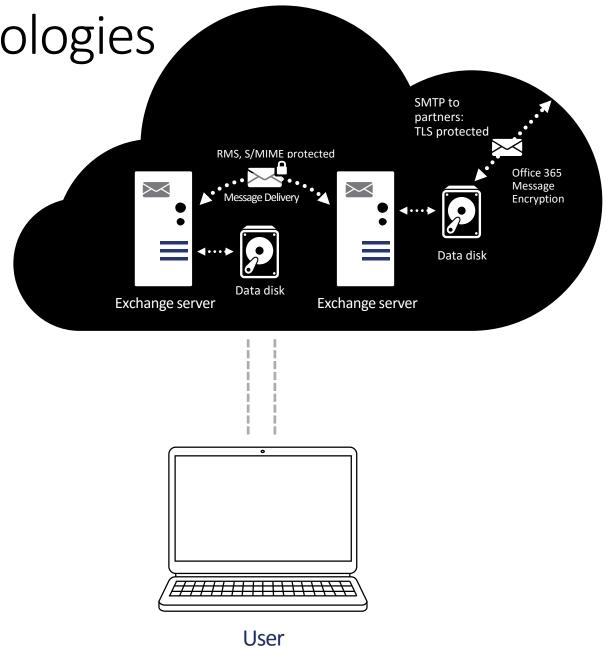
Additional Encryption technologies

Rights Management Service

S/MIME

Office 365 Message Encryption

Transport Layer Security

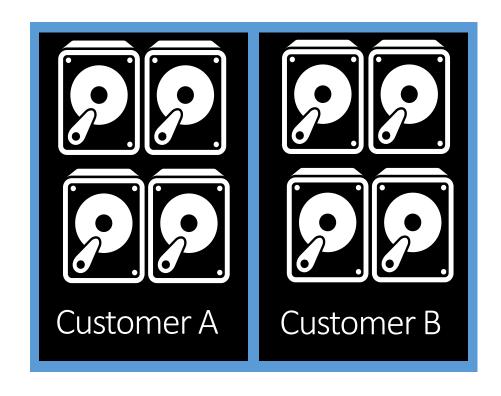


Anti Spam/ Anti Virus

- Multi-engine antimalware protects against 100% of known viruses.
- Continuously updated anti-spam protection captures 98%+ of all inbound spam.
- Advanced fingerprinting technologies that identify and stop new spam and phishing vectors in real time.
- Mark all bulk messages as spam.
- Block unwanted email based on language or geographic origin.



Customer data isolation



Designed to support logical isolation of data that multiple customers store in same physical hardware.

Intended or unintended mingling of data belonging to a different customer/tenant is prevented by design using Active Directory organizational units

Encryption at rest with Per-file Encryption









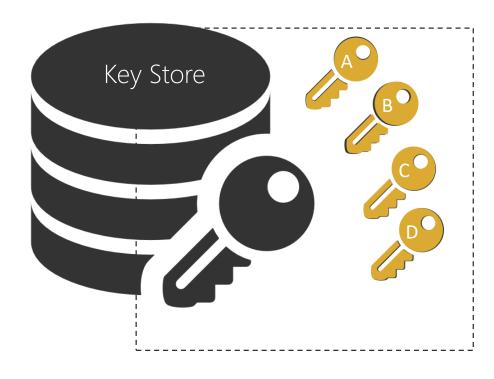












Breach simulations





Multi-factor authentication using any phone

Mobile Apps

Phone Calls

Text Messages



Push Notification
One-Time-Passcode
(OTP) Token



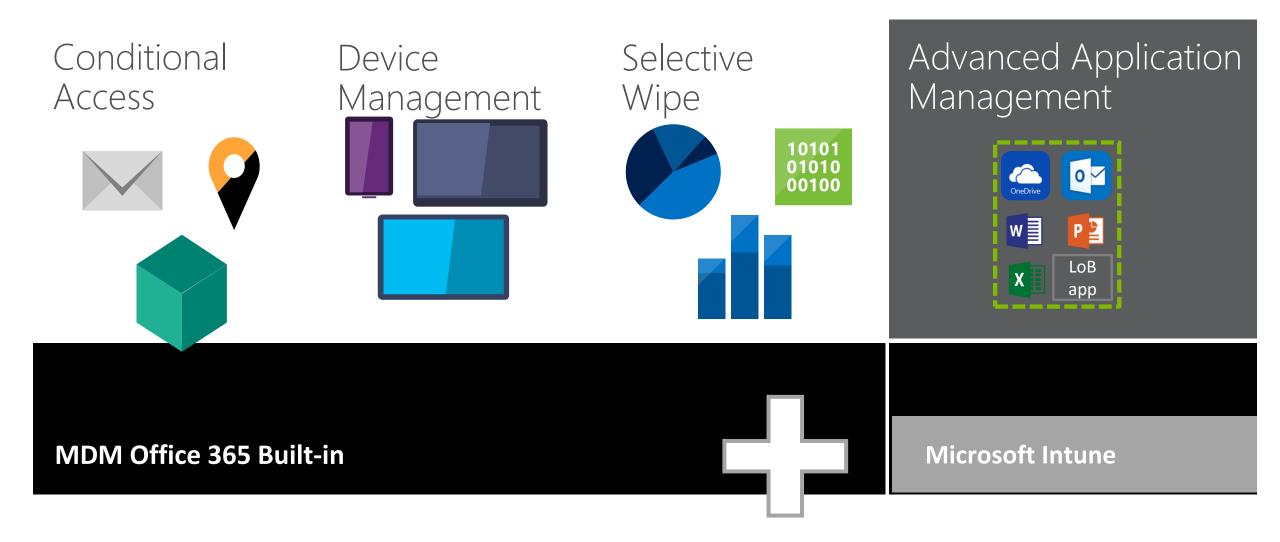
Out-of-Band* Call



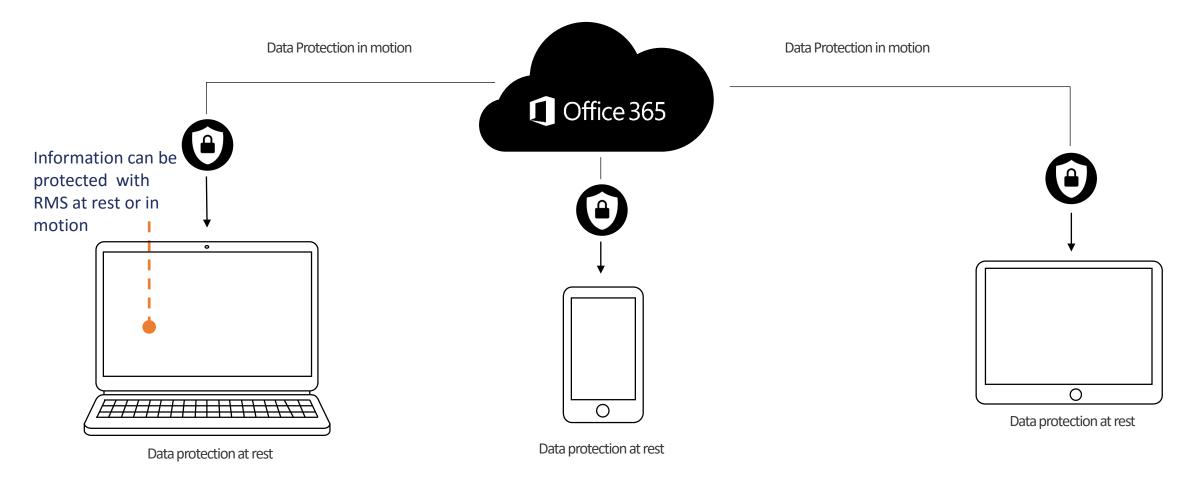
Text
One-Time Passcode
(OTP) by Text

^{*}Out of band refers to being able to use a second factor with no modification to the existing app UX.

Mobile Device Management



Rights Management Service



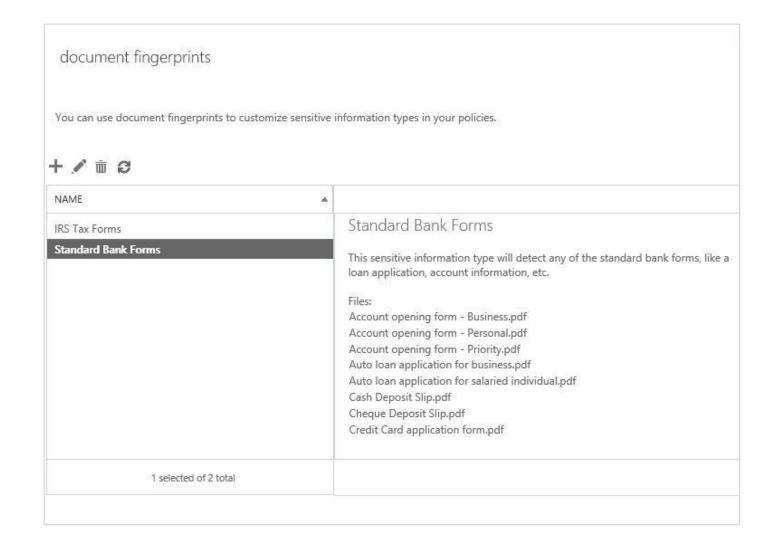
RMS can be applied to any file type using RMS app

DLP document fingerprinting

Scan email and attachments to look for patterns that match document templates

Protect sensitive documents from being accidently shared outside your organization

No coding required; simply upload sample documents to create fingerprints



Email archiving and retention

Preserve								
In-Place Archive	Governance	Hold						
Secondary mailbox with separate quota	Automated and time- based criteria	Capture deleted and edited email messages						
Managed through EAC or PowerShell Available on-premises, online, or through EOA	Set policies at item or folder level Expiration date shown in email message	Time-Based In-Place Hold Granular Query-Based In- Place Hold Optional notification						

Search

eDiscovery

Web-based eDiscovery Center and multi-mailbox search

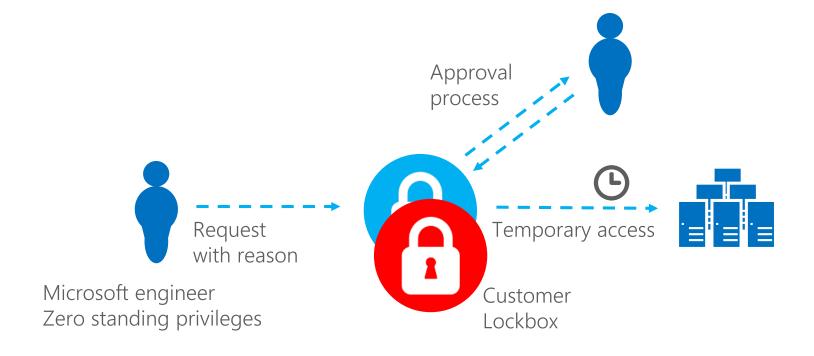
Search primary, In-Place Archive, and recoverable items

Delegate through roles-based administration

De-duplication after discovery

Auditing to ensure controls are met

Just-in-time access



Engineers must have current background check, fingerprinting, security training. System grants least privilege required to complete task.

Compliance

Standards & Certifications



Standards Certifications	Market	Region			
SSAE/SOC	Finance	Global			
ISO 27001:2013	Global	Global			
ISO 27018	Global	Global			
EUMC	Europe	Europe			
FERPA	Education	U.S.			
FedRAMP/FISMA	Government	U.S.			
HIPAA	Healthcare	U.S.			
HITECH	Healthcare	U.S. U.S.			
ITAR	Defense				
HMG IL2	Government	UK			
CJIS	Law Enforcement	U.S.			
Article 29 ⁺	Europe	Europe			
SOC 2	Global	Global			

Privacy

Privacy by design means that we do not use your information for anything other than providing you services

No Advertising



No advertising products out of Customer Data

No scanning of email or documents to build analytics or mine data

Transparency



Access to information about geographical location of data, who has access and when

Notification to customers about changes in security, privacy and audit information

Privacy controls



Various customer controls at admin and user level to enable or regulate sharing

If the customer decides to leave the service, they get to take to take their data and delete it in the service

On government snooping...

Here's what Microsoft does, and doesn't do:

We don't provide any government with direct, unfettered access to your data

We don't assist any government's efforts to break our encryption or provide any government with encryption keys

We don't engineer back doors into our products and we take steps to ensure governments can independently verify this

If as reports suggest there is a bigger surveillance program we aren't involved

eDiscovery and In-Place Hold in Office 365

Integrated tools to help you preserve, expire, and discover data

Hold -

Deletion

Search

Q

Keep the data you do want

Delete the data you don't want

Find the data you need

Data Held In-Place

Customize holds based on filters

Hold across multiple products in a single action

Capture deleted & edited messages

Automated time-based criteria to delete

Set policies at item or folder level – admin or user

Set site level retention polices

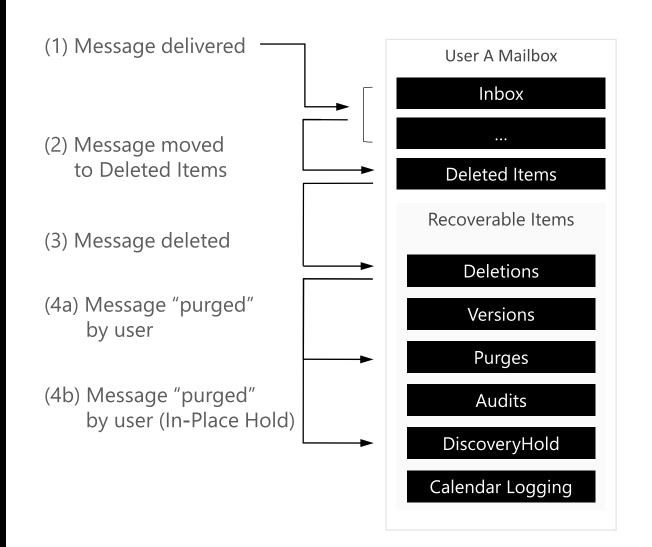
Search across multiple products

De-duplication & search statistics

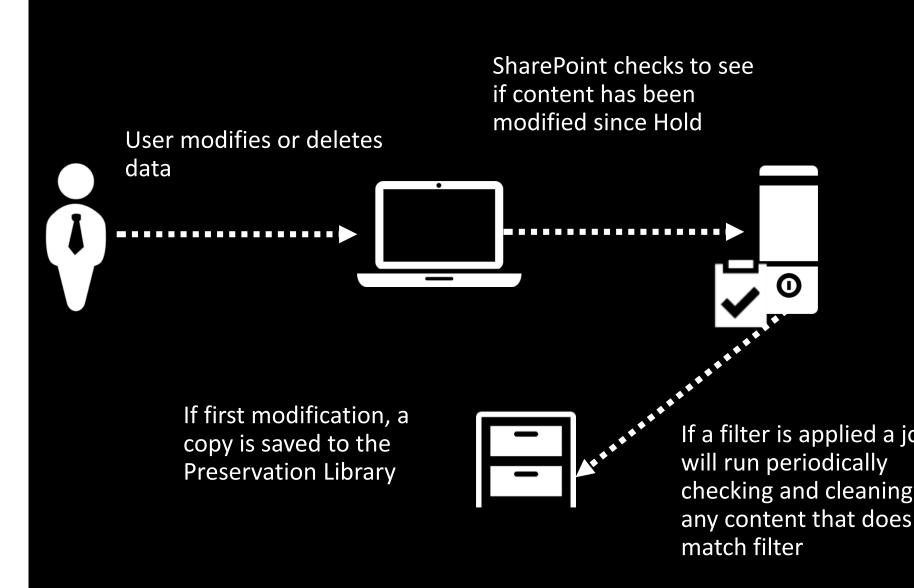
Case management

Export search results

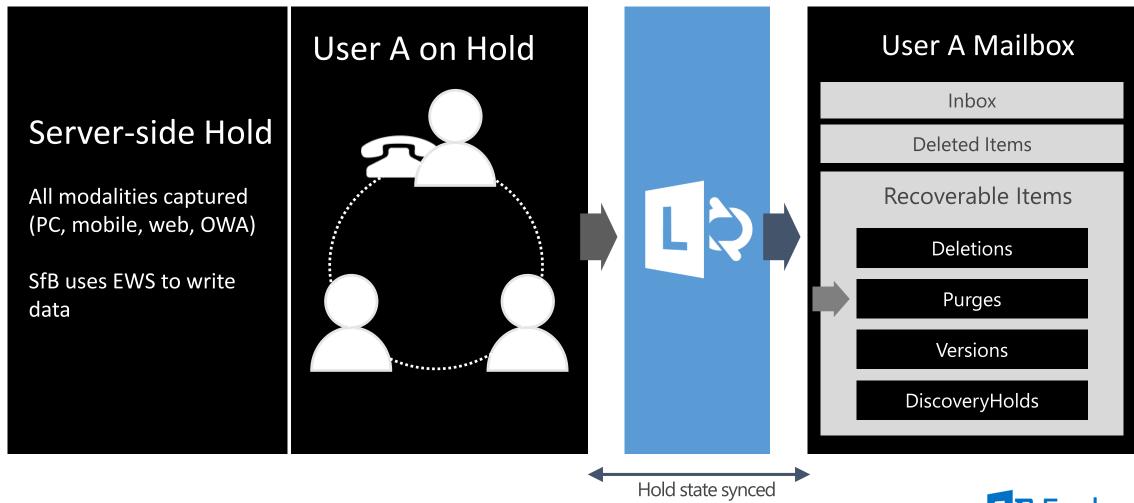
How does Exchange Hold Work?



How does SharePoint Hold Work?

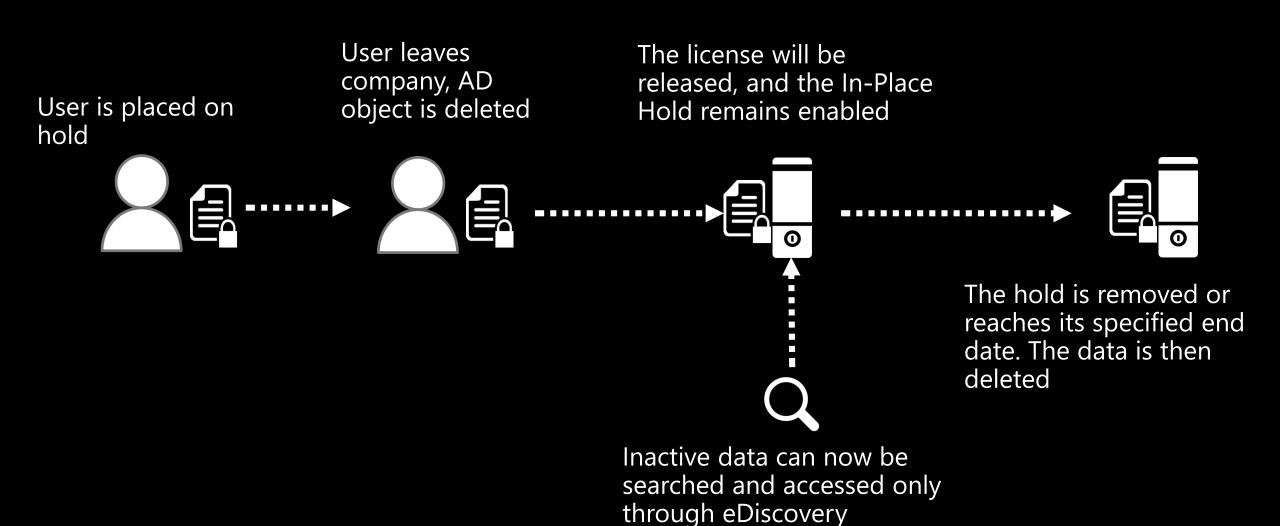


How does Skype for Business Hold Work?





How does hold work for inactive users?



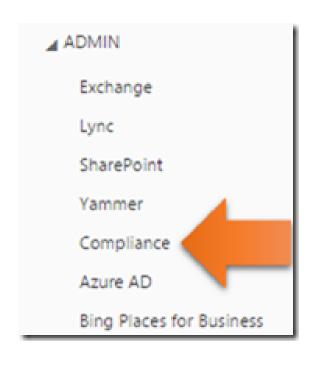
	Full plan lineup	Business	Business Essentials	Business Premium	ProPlus	E1
Target customer	Price (per year) \$AUD	\$158	\$68	\$167	\$230	\$107
	Seat Cap	300 (for each plan)				Unlimited
	24/7 phone support from Microsoft	Critical issues				All issues
Security	Antivirus / Anti-malware	•	•	•	•	•
	Encryption at rest	•	•	•	•	•
	Multi factor	•	•	•	•	•
	Mobile Device Management	•	•	•	•	•
Email Security	Message encryption					
	Unlimited email archiving					
	Litigation hold					
	Message tracing		•	•		•
Advanced services	Active Directory integration	•	•	•	•	•
	Supports hybrid deployment				•	•
	Rights Management					
	Full eDiscovery (hold)					
	Data Loss Prevention					

Enterprise

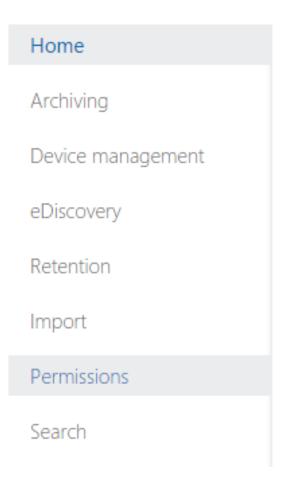
\$338

lacktriangle

New Compliance centre



Compliance Center



DEMO

Resources

Office 365 Trust Center

Your people and your data are your most important assets and so, as you consider Office 365 for your productivity needs, we want to do our best to answer your top questions upfront. Trust Center is the place where we share our commitments and information on trust-related topics.









Find out more (+)

What is continuous compliance?

Find out more 🕣

See more Trust Center videos

Watch now →

Welcome

Built-in security

Privacy by design

Continuous compliance

Transparent operations

With Office 365, it's your data. You own it. You control it. And it is yours to take with you if you decide to leave the service. The core tenets of our approach to earning and maintaining your trust are:

Built-in security

- · Service-level security through defense-in-depth
- · Customer controls within the service
- · Security hardening and operational best practices

Privacy by design

- · Your data is not used for advertising
- · You have extensive privacy controls
- · You can take your data with you when you want

Continuous compliance

- · Proactive processes to meet your compliance needs
- · Customer controls for organizational compliance
- · Independently verified to meet evolving standards

Transparent operations

- · You know where your data resides and who has access
- · Visibility into availability and changes to the service
- · Financially backed guarantee of 99.9% uptime

Quarterly uptime: 99.98% | Office 365 Security white paper | Top 10 security and privacy features | Top 10 compliance standards | Privacy authorities across Europe approve Microsoft's cloud commitments | Services covered by the Office 365 Trust Center

Two resources you must know

Office 365 Trust Center http://trust.office365.com
Office 365 Blog http://blogs.office.com/

Best practices

- Understand the customer need for security and compliance.
- Sell the right plan to meet these needs.
- Automate security and compliance configuration.
- Look to enable all the security and compliance options.

Take aways

- Understand what security and compliance options offer.
- Enhance pitch by asking about security and compliance.
- If targeting a vertical know the industry security and compliance requirements.
- Office 365 security and compliance is always being enhanced. Stay up to date.

Resources

- Customer Lockbox https://blogs.office.com/2015/04/21/announcing-customer-lockbox-for-office-365/
- Office 365 Compliance https://technet.microsoft.com/en-au/library/office-365-compliance.aspx
- Office 365 Security, Audits and Certifications http://www.microsoft.com/online/legal/v2/?docid=27
- Beyond MDM https://www.youtube.com/watch?v=_X3-LEYc8Y8
- Roadmap for information protection in Office 365 and beyond https://www.youtube.com/watch?v=FhmCYyCgeG4
- Overview of Advanced Threat protection in Exchange https://www.youtube.com/watch?v=GEE5y9sE_t4
- Office 365 Message encryption http://blog.ciaops.com/2014/11/office-365-message-encryption.html

QUESTIONS / FEEDBACK?



