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Coffice Visual Studio 🖉 Windows 7



Windows Phone





Configuring Hybrid the easy way

Eddie Chua (echua@microsoft.com) Technology Solution Specialist Microsoft HK Ltd.

> Microsoft® tech.days Hong Kong|2012

Session Objectives and Takeaways

Session Objective(s):

- Understand how the Hybrid Configuration Engine works
- Understand the common pitfalls customers hit when they're configuring hybrid, and how to avoid them

Agenda

- Hybrid overview
- Manually configured hybrid review
- The new SP2 deployment process
- How does the Hybrid Configuration Wizard work?
- Common deployment pitfalls

Office 365 Migration Options Choices to fit your organization

IMAP migration

Migration

Hybrid

- Supports wide range of e-mail platforms
- E-mail only (no calendar, contacts, or tasks)

Cutover Exchange migration (CEM)

- Good for fast, cutover migrations
- No server required on-premises

Staged Exchange migration (SEM)

- No server required on-premises
- Identity federation with on-premises directory

Hybrid deployment

- Manage users on-premises and online
- Enables cross-premises calendaring, smooth migration, and easy off-boarding

	IMAP migration	Cutover migration	Staged migration	Hybrid
Exchange 5.5	X		1	
Exchange 2000	X	1		/
Exchange 2003	Х	Х	Х	Х
Exchange 2007	X	Х	Х	Х
Exchange 2010	Х	Х		Х
Notes/Domino	X		2	
GroupWise	Х	~		/
Other	X		/	

* Additional options available with tools from migration partners

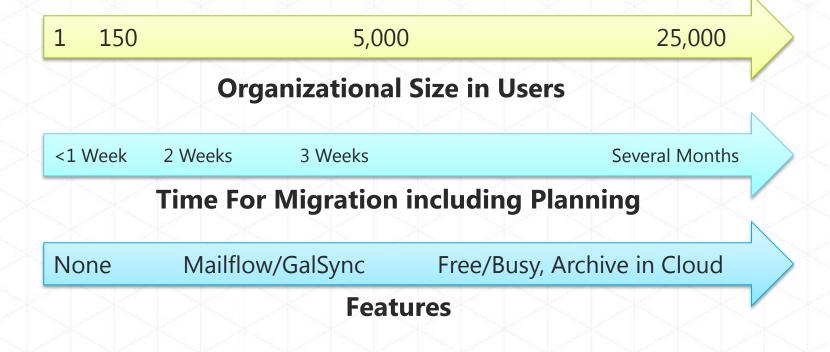
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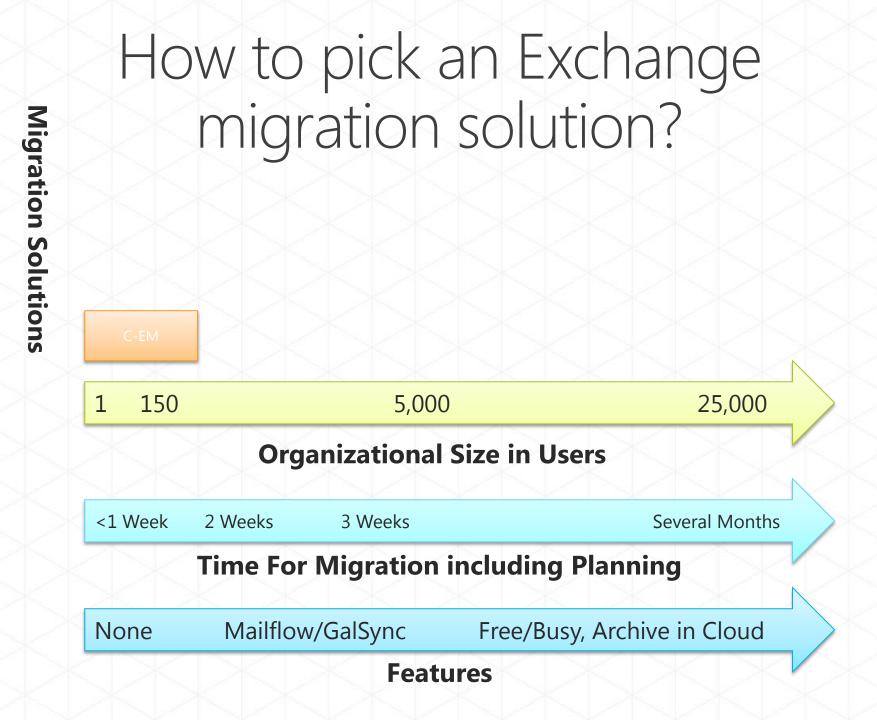
Hybrid Staged Exchange Migration vs Hybrid Feature-

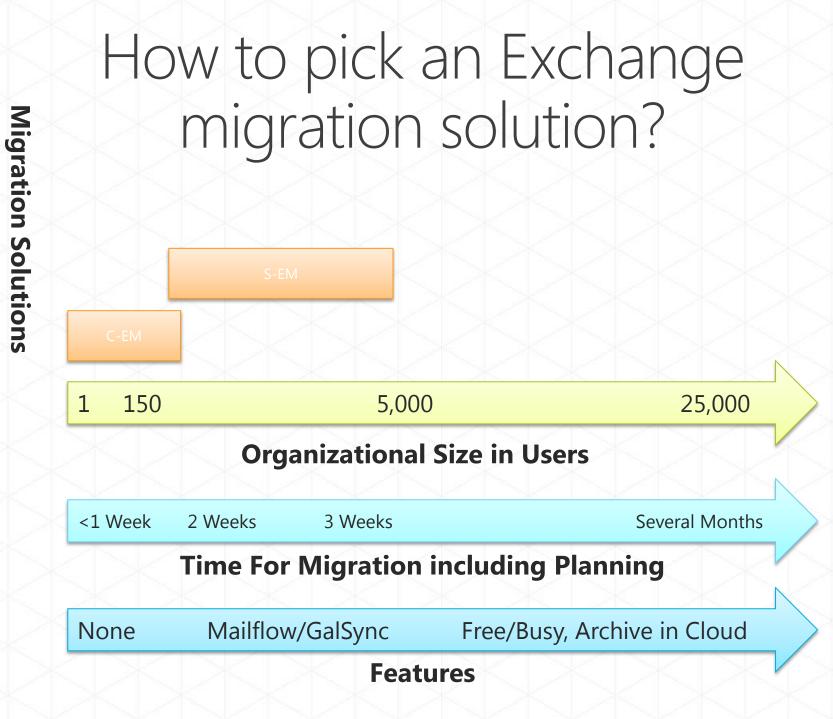
Set	Staged	Hybrid
Mail routing between on-premises and cloud (recipients on either side)	•	•
Mail routing with shared namespace (if desired) - @company.com on both sides		
Unified GAL		•
Free/Busy and calendar sharing cross-premises	\times	
Mailtips, messaging tracking, and mailbox search work cross-premises	\times	\sim
OWA Redirection cross-premise (single OWA URL for both on-premises and cloud)		
Exchange Online Archive	\sim	
Exchange Management Console used to manage cross-prem relationship & mailbox migrations	\times	
Native mailbox move supports both onboarding and offboarding	\times	
No outlook reconfiguration or OST resync required after mailbox migration		
Online Mailbox Move allows users to start logged into their mailbox while it is being moved to the cloud		
Secure Mail ensure emails cross-premises are encrypted, and the internal auth headers are preserved		
Centralized mailflow control, ensures that all email routes inbound/outbound via On Premises	\times	



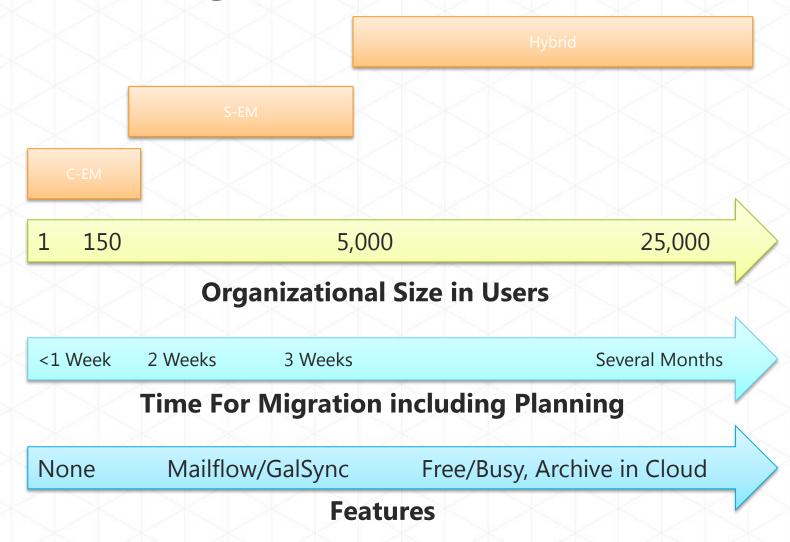








Migration Solutions



Hybrid Feature summary

Makes your on-premises organization and cloud organization work together like a single, seamless organization

- Offers near-parity of features/experience onpremises and in the cloud
- Seamless interactions between on-premises and cloud mailboxes
- Migrations in and out of the cloud transparent to end-user

Features not supported:

- Coexistence of mailbox permissions –Permissions are migrated, but do not work when Delegator and Delegate are split between on-prem & cloud
- Migration of Send As for non mailbox recipients
- Multi-forest Only single forest source environments
- Public Folders
- Address Book Policies

Demo

Configure hybrid manually - review Using Exchange 2010 SP1



Exchange Deployment Assistant

Exchange Deployment Assistant

http://technet.microsoft.com/exdeploy2010

- Currently supports manual hybrid configuration with:
 - Exchange Server 2003
 - Exchange Server 2007
 - Exchange Server 2010 SP1
- Support for the Hybrid Configuration Wizard coming soon

 Exchange Reiver
 Exchange Help
 Forums
 Feedback
 About

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SP1 Improvements

- Significant documentation improvements
- Exchange Deployment Assistant
 - Custom step by step guidance
 - Additional scenarios added over time (continually evolving)

 Fixes for Exchange federation and Exchange 2003 support delivered in SP1 RU4 and to the Exchange Online service in our regular service updates

Hybrid deployment feedback

- Difficult and fiddly configuration process
- Lots of manual steps
- New technical concepts
- A number of different administrative tools/interfaces to go to

Hybrid Configuration Wizard The new SP2 process

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What's new in Exchange 2010 SP2

- Coexistence Domain Replaces the requirement for the customer to create a "service.contoso.com" domain
- Federation Trust improvements Removes the requirement to create a "exchangedelegation.contoso.com" domain
 - SP2 automatically prepends a well know string ("FYDIBOHF25SPDLT") to the beginning of the account namespace.
- Dedicated hybrid management experience
 - Hybrid Config Wizard
 - New/Get/Set/Update-HybridConfiguration cmdlets

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Pre-SP2: Over 50+ manual steps

With SP2: Now only 6 steps, all within the UI

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- Dedicated hybrid management experience
 - Hybrid Config Wizard
 - New/Get/Set/Update-HybridConfiguration cmdlets
- The wizard & cmdlets will configure the following the
 - Exchange federation trust
 - Organization relationships
 - Remote domains/accepted domains
 - Email address policies
 - Send/Receive connector
 - Forefront inbound/outbound connectors
 - MRSProxy
 - Pre-req checks (i.e. Office365 Active Directory Sync, Exchange certificates, registered custom domains, etc...)

Pre-SP2: Over 50+ manual steps

With SP2: Now only 6 steps, all within the UI

SP2 Hybrid Deployment Process



Register your domains with Office 365 Deploy Office 365 Directory Sync Install Exchange 2010 SP2 CAS & HUB Servers Publish the CAS & Hub Servers (Assign SSL certificate.

Run the Hybrid Wizard

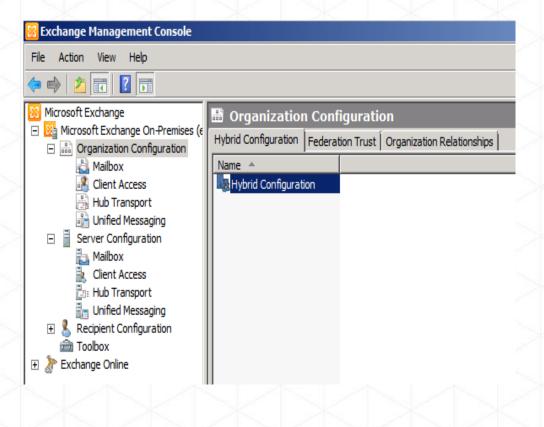
SP2 Hybrid Deployment Process

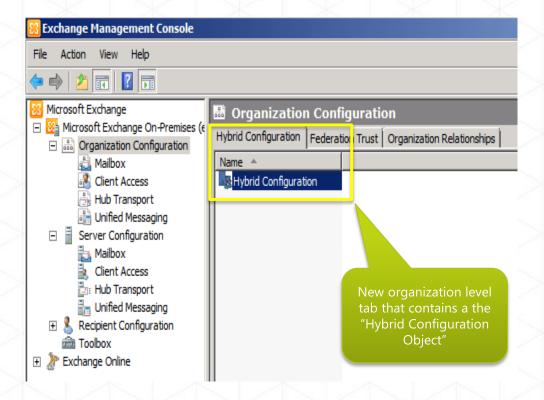


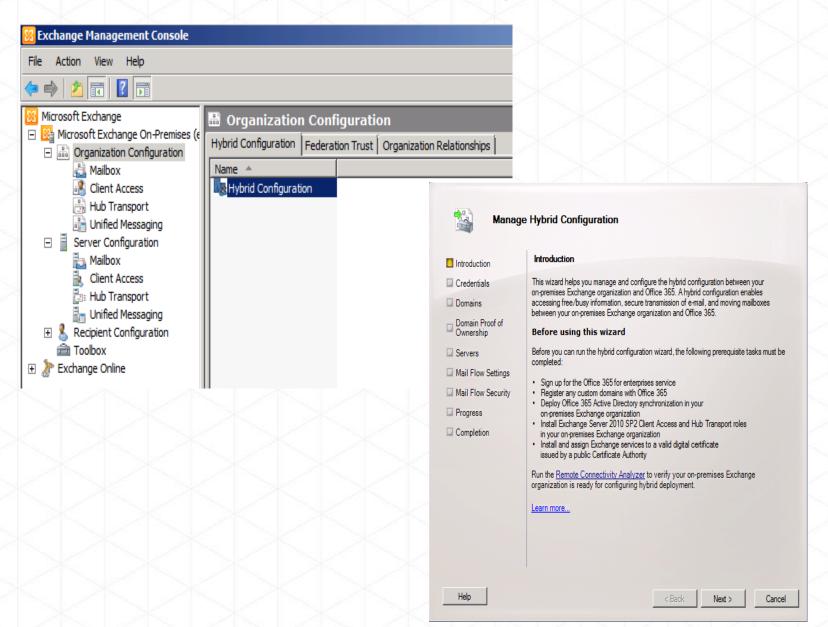
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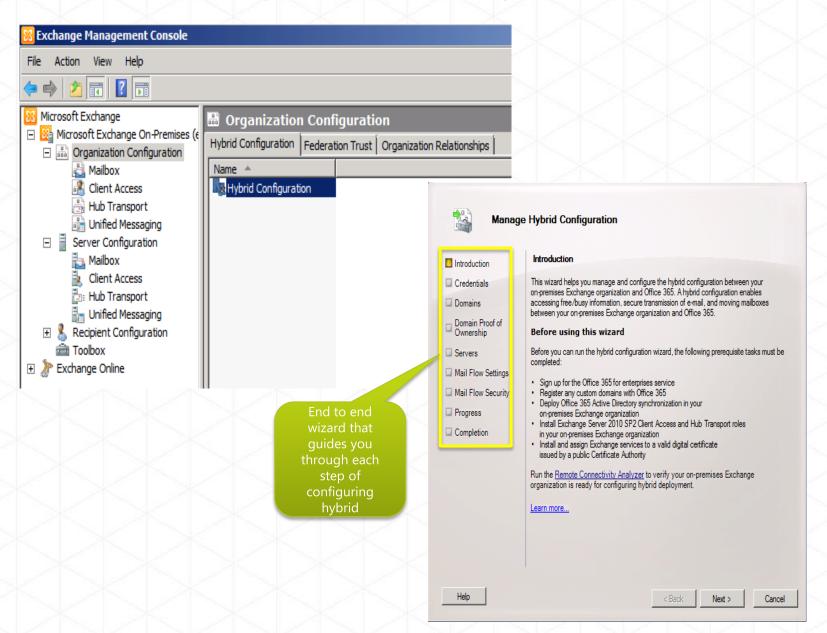
Run the Hybrid Wizard

Use the Exchange **Remote Connectivity Analyzer** to verify this stage









Video

Hybrid Configuration Wizard



Manage Hybrid Configuration

Introduction	Introduction
 Introduction Credentials Domains Domain Proof of Ownership Servers Mail Flow Settings Mail Flow Security Progress Completion 	Introduction This wizard helps you manage and configure the hybrid configuration between your on premises Exchange organization and Office 365. A hybrid configuration enables accessing free/busy information, secure transmission of e-mail, and moving mailboxes between your on-premises Exchange organization and Office 365. Before using this wizard Before you can run the hybrid configuration wizard, the following prerequisite tasks must be completed: • Sign up for the Office 365 for enterprises service • Register any custom domains with Office 365. • Deploy Office 365 for enterprises service • Register any custom domains with Office 365. • Deploy Office 365 for enterprises service • Install Exchange organization • Install Exchange server 2010 SP2 Client Access and Hub Transport roles in your on-premises Exchange organization • Install and assign Exchange services to a valid digital certificate issued by a public Certificate Automity
	Run the <u>Remote Connectivity Analyzer</u> to verify your on-premises Exchange organization is ready for configuring hybrid deployment.

Help

Next >

Cancel



Manage Hybrid Configuration

Introduction	Introduction
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Update-HybridConfiguration

Help

Next >

Cancel



Manage Hybrid Configuration

Credentials This wizard helps you manage and configure the hybrid configuration between your	Introduction
 Domains Domain Proof of Ownership Domain Proof of Ownership Servers Mail Flow Settings Mail Flow Security Progress Completion Sign up for the Office 365 for enterprises service Register any custom domains with Office 365 Sign up for the Office 365 for enterprises service Register any custom domains with Office 365 and Hub Transport roles in your on premises Exchange organization register any custom domains with Office 363 data digital certificate issued by a public Certificate Authority Run the Remote Connectivity Analyzer to verify your on-premises Exchange organization is ready for configuring hybrid deployment. 	 Credentials Domains Domain Proof of Ownership Servers Mail Flow Settings Mail Flow Security Progress

Help

k Next >

Cancel

Update-HybridConfiguration

The Wizard records the information collected from the user via the "Set-HybridConfiguration" cmdlet



Manage Hybrid Configuration

Introduction	Introduction
Credentials Domains Domain Proof of	This wizard helps you manage and configure the hybrid configuration between your on-premises Exchange organization and Office 365. A hybrid configuration enables accessing free/busy information, secure transmission of e-mail, and moving mailboxes between your on-premises Exchange organization and Office 365.
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Help	< Back Next > Cancel

Update-HybridConfiguration

The Wizard records the information collected from the user via the "Set-HybridConfiguration" cmdlet

All deployment actions are taken by the Hybrid Configuration Engine, which is called by the Update-HybridConfiguration cmdlet

Hybrid Configuration Engine



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ORGANIZATION

INTERNET Topology Execute Desired & Current Configuration Configuration State **Tasks** State **Hybrid Configuration Engine**

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Hybrid Configuration Engine

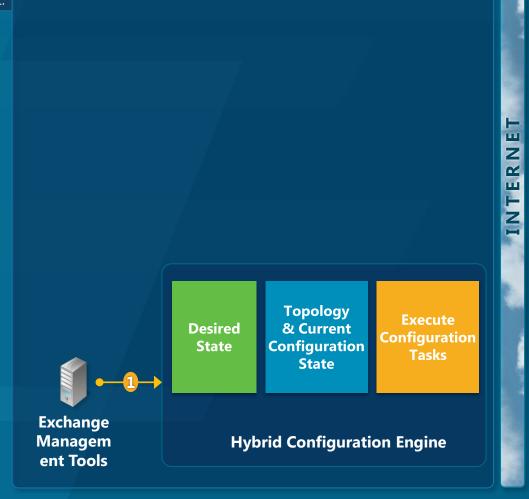


The *Update*-*HybridConfiguration* cmdlet triggers the Hybrid <u>Configuration</u> Engine to start.

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Hybrid Configuration Engine

The Update-HybridConfiguration cmdlet triggers the Hybrid Configuration Engine to star

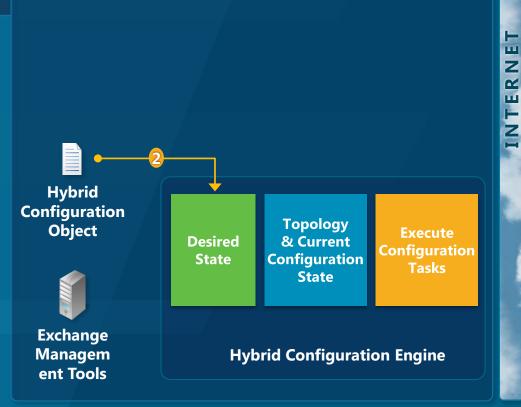
Step 2

The Hybrid Configuration Engine reads the "desired state" stored on the HybridConfiguration Active Directory object.

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Hybrid Configuration Engine

Managem

ent Tools

The *Update*- **1** *HybridConfiguration* cmdle triggers the Hybrid Configuration Engine to st

> The Hybrid Configuration Engine reads the "desired state" stored on the HybridConfiguration Activ

Step 3

The Hybrid Configuration Engine connects via Remote PowerShell to both the onpremises and Exchange Online organizations.

Exchange Server Domain Level Organization Level Configuration Level Configuration Configuration **Objects Objects** (Accepted Domains, (Mailbox Replication Service Proxy, Certificate Remote Domains, & (Exchange Federation Validation, Exchange Web E-mail Address Policies) Trust, Organization Service Virtual Directory Relationship, Availability Validation, & Receive Address Space, & Send Connector) Connector) REMOTE POWERSHELL Hybrid Configuration Topology Object Execute Desired & Current Configuration Configuration State Tasks State **Exchange**

ON-PREMISES EXCHANGE ORGANIZATION

Hybrid Configuration Engine

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Organization Level Configuration Objects

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REMOTE

(Exchange Federation Trust, Organization Relationship, Forefront Inbound Connector, & Forefront Outbound Connector)

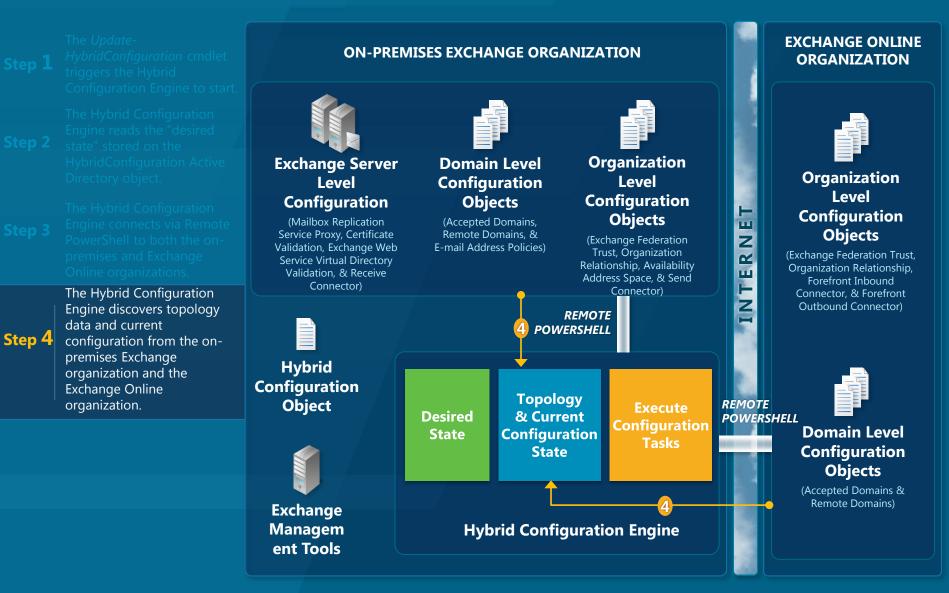


POWERSHELL Domain Level Configuration Objects

> (Accepted Domains & Remote Domains)

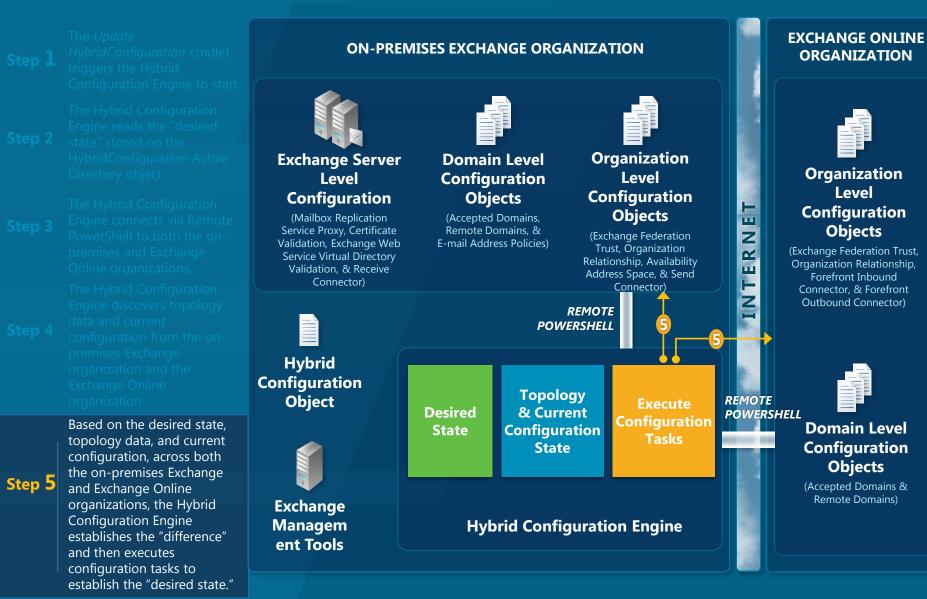
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Hybrid Configuration Engine



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Hybrid Configuration Engine



ON-PREMISES EXCHANGE ORGANIZATION





Exchange 2007 Mailbox Server Exchange 2007 Client Access Server

Exchange 2010 Client Access Server



Hybrid Configuration Engine MICROSOFT FEDERATION GATEWAY

PUBLIC DNS

EXCHANGE ONLINE ORGANIZATION



Exchange Online Mailbox Server



Exchange Online Client Access Server

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Exchange 2007 Mailbox Server

Hybrid

Configuration Engine

Exchange 2007 Client Access Server

Exchange 2010 Client Access Server

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Configuration Engine

Exchange 2007 Client Access Server

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Exchange Online Mailbox Server



Exchange Online Client Access Server

C:\Get-FederationInformation – DomainName "contoso.com"

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Organization Relationship Creation MICROSOFT PUBLIC

FEDERATION

GATEWAY

DNS

ON-PREMISES EXCHANGE ORGANIZATION





Exchange 2007 Mailbox Server

Exchange 2007 **Client Access Server**

Exchange 2010 **Client Access Server**

ELL

REMOTE POWERSH Hybrid Configuration Engine

(1) Get-**FederationInformati** on requests a delegation token from the MFG over HTTPS

EXCHANGE ONLINE ORGANIZATION



Exchange Online **Mailbox Server**



Exchange Online Client Access Server

C:\Get-FederationInformation -DomainName "contoso.com"

ON-PREMISES EXCHANGE ORGANIZATION





Exchange 2007 Mailbox Server

Hybrid

Engine

Exchange 2007 **Client Access Server**

Exchange 2010 **Client Access Server**

ELL

REMOTE POWERSH Configuration

MICROSOFT **FEDERATION** GATEWAY

DNS

(2) It then attempts to find the autodiscover endpoint through DNS **EXCHANGE ONLINE** ORGANIZATION

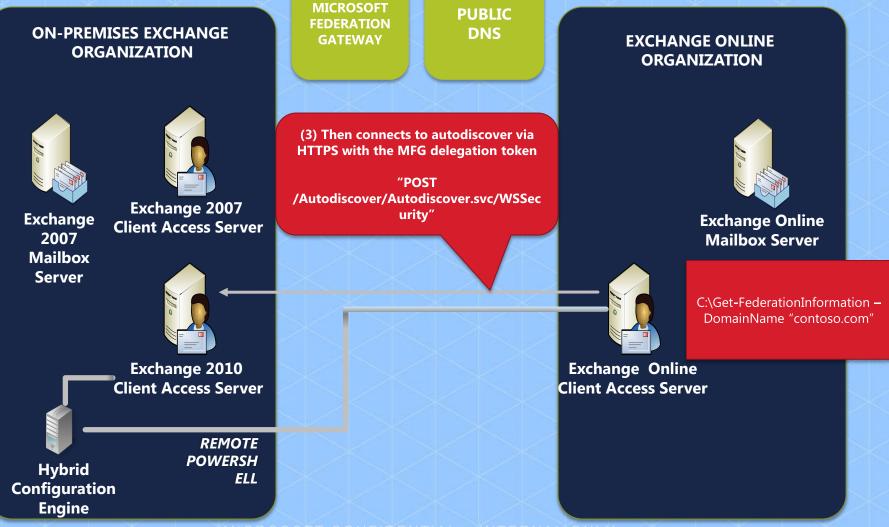


Exchange Online **Mailbox Server**

C:\Get-FederationInformation -DomainName "contoso.com"



Exchange Online Client Access Server



ON-PREMISES EXCHANGE ORGANIZATION





Exchange 2007 Mailbox Server Exchange 2007 Client Access Server

Exchange 2010 Client Access Server

Hybrid Configuration Engine REMOTE POWERSH ELL MICROSOFT FEDERATION GATEWAY

PUBLIC DNS

(4) Client Access Server responds with Federation Trust details:

ApplicationUri: FYDIBOHF25SPDLT.contoso.com DomainNames: contoso.com TargetAutodiscoverEpr: http://autodiscover.contoso.com/auto discover.svc/WSSecurity TokenIssuerUris: urn:federation:Microsoft Online

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Exchange Online Mailbox Server



C:\Get-FederationInformation – DomainName "contoso.com"

Exchange Online Client Access Server

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Exchange 2007 Mailbox Server

Hybrid

Configuration Engine

Exchange 2007 Client Access Server

Exchange 2010 Client Access Server

> REMOTE POWERSH ELL

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PUBLIC DNS

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Exchange Online Mailbox Server



Exchange Online Client Access Server

C:\Get-FederationInformation – DomainName "contoso.com"

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Exchange 2007 Mailbox Server

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Configuration Engine

Exchange 2007 Client Access Server

Exchange 2010 Client Access Server

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Exchange Online Mailbox Server



Exchange Online Client Access Server

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Exchange 2007 Mailbox Server

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Configuration Engine

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Exchange 2010 Client Access Server

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Exchange Online Mailbox Server



Exchange Online Client Access Server

C:\Get-FederationInformation – DomainName "contoso.com"

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Exchange 2007 Mailbox Server

Exchange 2007 **Client Access Server**

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Exch ______2010 Client 🗸 😋 Server

REMOTE POWERSH Hybrid Configuration Engine

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Exchange Online **Mailbox Server**



Exchange Online Client Access Server

C:\Get-FederationInformation -DomainName "contoso.com"

ON-PREMISES EXCHANGE ORGANIZATION

ForeFront Online Protection for Exchange



Exchange 2010 Hub Transport Server

Internal Mail Flow



Exchange Online

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The Exchange Send Connector" is scoped to the coexistence domain (e.g. "contoso.mail.onmicrosoft.com

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Exchange 2010 Hub Transport Server

ForeFront Online Protection for Exchange

Internal Mail Flow

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ON-PREMISES EXCHANGE ORGANIZATION The FOPE Inbound Connector is scoped to the public IP addresses entered in the HCW

ForeFront Phine Protection for Exchange

Internal Mail Flow



Exchange 2010 Hub Transport Server Exchange Online

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The FOPE Inbound Connector is scoped to the public IP addresses entered in the HCW

ForeFront Protection for Exchange

Internal Mail Flow

The FOPE Outbound Connector is scoped to the domains selected in the HCW (e.g. "contoso.com"), and it will deliver email to the FQDN entered in the HCW (e.g. "mail.contoso.com"

Exchange Online

Exchange 2010 Hub Transport Server

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The Exchange Send Connector" is scoped to the coexistence domain (e.g. "contoso.mail.onmicrosoft.com

> The Exchange Receive Connector is scoped to FOPE's public IP addresses

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The FOPE Inbound Connector is scoped to the public IP addresses entered in the HCW

ForeFront Protection for Exchange

Internal Mail Flow

Exchange 2010 Hub Transport Server to the domains selected in the HCW (e.g. "contoso.com"), and it will deliver email to the FQDN entered in the HCW (e.g. "mail.contoso.com"

The FOPE Outbound Connector is scoped

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ForeFront Protection for Exchange

Internal Mail Flow



Exchange 2010 Hub Transport Server Exchange Online

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External Recipient"

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ForeFront Protection for Exchange

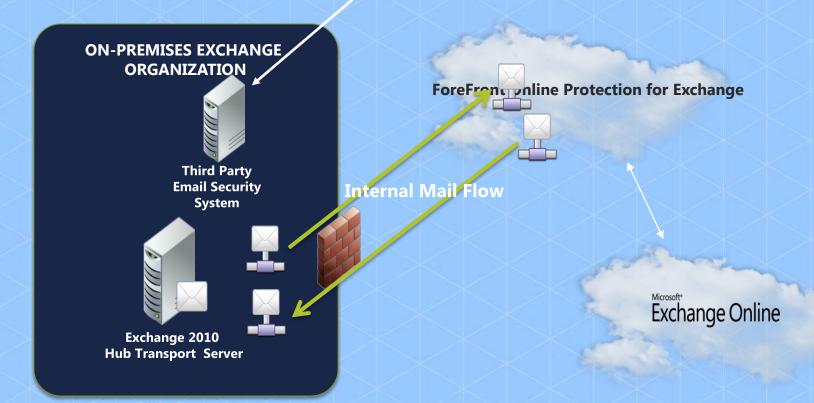
Internal Mail Flow



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External Recipient"

ON-PREMISES EXCHANGE ORGANIZATION

Third Party Email Security System



Exchange 2010 Hub Transport Server ForeFront Protection for Exchange

Internal Mail Flow

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ForeFront Online Protection for Exchange



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Exchange 2010 Hub Transport Server

ForeFront Online Protection for Exchange

Internal Mail Flow

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ON-PREMISES EXCHANGE ORGANIZATION

The FOPE Inbound Connector is scoped to the public IP addresses entered in the HCW

This connector is marked so that <u>all email inbound to</u> <u>the tenant must be</u> <u>delivered through it</u>

ForeFront Phine Protection for Exchange

Internal Mail Flow



Exchange 2010 Hub Transport Server Exchange Online

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ON-PREMISES EXCHANGE ORGANIZATION

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ForeFront Protection for Exchange

Internal Mail Flow



Exchange 2010 Hub Transport Server The FOPE Outbound Connector is scoped to <u>all domains</u> (e.g. *.*), and it will deliver <u>all</u> <u>outbound</u> email to the FQDN entered in the HCW (e.g. "mail.contoso.com")

Exchange Online

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The Exchange Send Connector" is scoped to the coexistence domain (e.g. "contoso.mail.onmicrosoft.com"

ON-PREMISES EXCHANGE ORGANIZATION

The FOPE Inbound **Connector is scoped to the** public IP addresses entered in the HCW

This connector is marked so that all email inbound to the tenant must be delivered through it

ForeFront phline Protection for Exchange

Internal Mail Flow



Hub Transport Server

The Exchange **Receive Connector** is scoped to FOPE's public IP addresses

The FOPE Outbound Connector is scoped to all domains (e.g. *.*), and it will deliver all outbound email to the FQDN entered in the HCW (e.g. "mail.contoso.com")

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ForeFront Protection for Exchange

Internal Mail Flow



Exchange 2010 Hub Transport Server Exchange Online

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External Recipient"

ON-PREMISES EXCHANGE ORGANIZATION

ForeFront Protection for Exchange

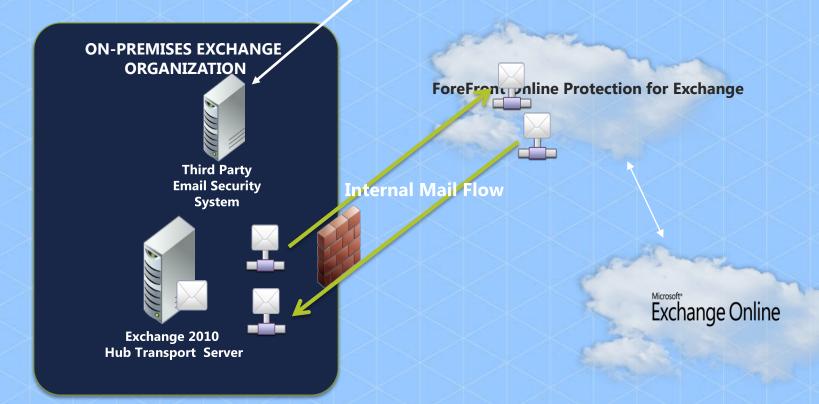
Internal Mail Flow



Exchange 2010 Hub Transport Server Exchange Online

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External Recipient"



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External Recipient"

ON-PREMISES EXCHANGE ORGANIZATION

Third Party Email Security System



Exchange 2010 Hub Transport Server ForeFront Protection for Exchange

Internal Mail Flow

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Third Party Email Security System



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Internal Mail Flow

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Common Deployment Issues - CAS

Autodiscover is not published correctly

- The external public DNS record for primary smtp domains must resolve to an Exchange Server 2010 SP1+ Client Access Server
- The CAS server must have a public SSL certificate bound to it
- The certificate must include the autodiscover DNS name within the Subject or SAN
- Pre-authentication is used in front of the Client Access Server
 - If using pre-authentication, the following URLs must be excluded and allow anonymous connections:
 - /EWS/Exchange.asmx/WSSecurity
 - /EWS/MRSProxy.svc/WSSecurity
 - /Autodiscover/Autodiscover.svc/WSSecurity
- SSL Off loading is being used in front of CAS
 - Hybrid Configuration Wizard fix for SSL offloading in Rollup1
 - Updated SSL Offloading guidance published to TechNet which includes MRSProxy specific steps <u>here</u> – Need to add a "http" binding into the /EWS/web.config

Common Deployment Issues – Mail Flow

- Third party SMTP security devices in use between Exchange on-premises and ForeFront Online Protection for Exchange
 - TLS connection between Exchange on-premises and FOPE, for internal mail flow, must initiate/terminate on 2010 SP1+ Hub Transport or Edge Transport
- MX record is point to FOPE with Centralized Transport Control enabled
 - This scenario only works if FOPE was already in use prior to creating the Office 365 tenant
- Wildcard certificate used for TLS
 - There is a bug fixed in Rollup1 to enable support for wildcard certificates

Session Objectives and Takeaways

Session Objective(s):

- Understand how the Hybrid Configuration Engine works
- Understand the common pitfalls customers hit when they're configuring hybrid, and how to avoid them
- Dependencies are key. You must have your certs, DNS names etc working before you attempt to configure hybrid. Otherwise it's going to be hard

Housekeeping

98 Breakout Sessions	Be Part Of The "Tech.Days 15th Anniversary Special – Worldfuture 2012" Game
Hands-on Lab at Rooms S223, S227, S424	
Windows 8 Consumer Preview Breakouts	Test Your Word Power – Wordament
Technology Expo	Hand in Evaluation Form & Get a Souvenir Pack
Microsoft Launch Products Zone	Stay Until the End of The Event – Sweet Surprise













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http://www.microsoft.com/hk/techdays2012/

Next Session – 13:30-14:45 • Room S221

- UNC393 Lync[®] Core Voice Planning and Deployment (English)
- Speaker: Andrew Ehrensing

Room S224-225

- PMGT286 Hybrid Cloud Management with System Center 2012 (Cantonese)
- Speaker: Daniel Lai

Room S228

- WP330 A Year in the Life of WordamentTM (English) (Repeated Session)
- Speaker: John Thornton

Next Session - 13:30-14:45

Room S421

- SVR384 Windows 8 Hyper-V[®]: Scalability (English)
- Speaker: Bryon Surace

Room S425

- PMGT319 Orchestrator and Service Manager Deep Integration in Action (English) (Repeated Session)
- Speaker: Mark Gosson

Room S426-427

- BIN260 IOIT & Big Data, Microsoft's Vision, Strategy and Roadmap (English)
- Speaker: Denny Lee

Room S428

- OFC302 Getting to Grips with Office 2010 Compatibilities (English)
- Speaker: Kingsley Starling

Next Session – 13:30–14:45 Hands-on Labs

Room S223

- PMGT369-HOL Introduction to System Center Operations Manager 2012 (Cantonese) (Repeated Session)
- Speaker: Jacky Yiu

Room S227

- SVR379-HOL What's New in Active Directory[®] (V3.0) (Cantonese) (Repeated Session)
- Speaker: John Lee

Room S424

- UNC383-HOL Exchange Server 2010 SP1: Compliance-Archiving and Retention (Cantonese)
- Speaker: Philip Yeung

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