



EXCHANGE 2016 INTRODUCTION

NYEXUG – [HTTP://MEETUP.COM/NYEXUG](http://meetup.com/nyexug) - 12/08/2015



ABOUT ME

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Microsoft MVP: Office Servers and Services | CTO @ GO5 LLC

MCSE: Messaging 2013, MCITP 2010/2007, MCSE since 1999

Ex – Microsoft Exchange PSS Employee

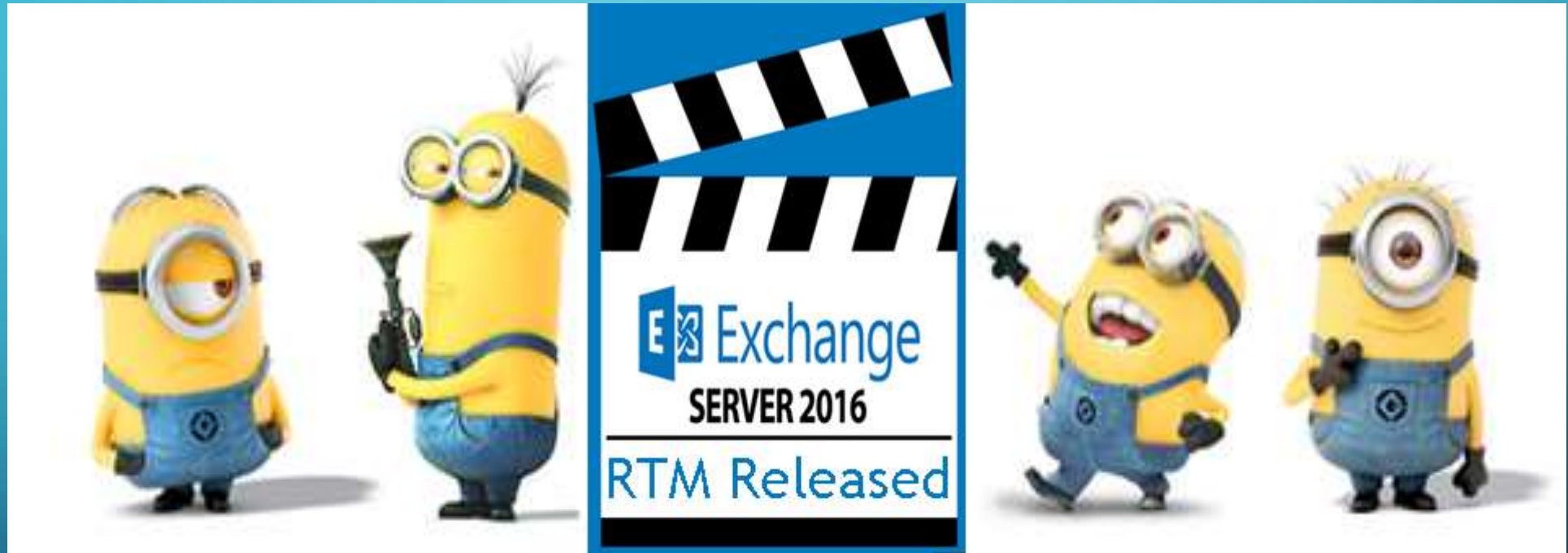
Blog: MSExchangeguru.com & MVP Community

Speaker: LAEXUG, NJUCUG, TechStravaganza, NetCom Ln, NYEXUG

Author: Kaplan and Opsgility

Founder: LAExUG

NEXT BIG THING IS HERE



CHECK MY BLOG HERE

[HTTP://BIT.LY/1JSYCNF](http://bit.ly/1JSYCNF)

AGENDA

- Exchange 2016 Overview
- Exchange 2010 VS Exchange 2016
- Active Directory Requirements
- Coexistence
- System Requirement
- Prerequisites
- Deployment Challenges
- Migration Challenges
- Summary

SURVEY

Have you deployed Exchange 2016?

Survey Result = %

EXCHANGE 2016 OVERVIEW

- Exchange Life Cycle
 - 4.0 | 5.0 | 5.5 | 2000 | 2003 | 2007 | 2010 | 2013 | 2016
- 2013 to 2016 What's new
 - <http://msexchangeguru.com/2015/09/27/e2016-new-features-to-e2013/>
- 2010 to 2016 What's new
 - <http://msexchangeguru.com/2015/09/30/e2016-new-features-to-e2010/>
- Only CU and no SP
- Roles: Mailbox or Edge Transport
- Search Indexing
 - Exchange 2013/2010 from Active Database
 - Exchange 2016 moving to Passive
- Recommended File System
- Virtualized or Physical
- Multi-factor Authentication

COMPARISON

EXCHANGE 2010

- EMC
- MBX+CAS+HT Role required
- Mostly Mapi else RPC over HTTP
- Litigation Hold
- PF Database
- Manual Disaster Recovery to 2nd AD Site

EXCHANGE 2016

- EAC
- Only MBX Role required
- MAPI over HTTP and RPC over HTTP
- Document Collaboration and Site Mailbox
- SafetyNet
- AutoReseed
- 3 DC expanded Auto DAG
- Improved Litigation Hold + DLP
- PF Mailbox
- Managed Availability
- New Audit Mailbox

ACTIVE DIRECTORY REQUIREMENTS

Forest Functional Level – Windows 2008 or higher

Domain Functional Level – Windows 2008 or higher

All Domain Controllers must be Windows 2008 or higher

All AD Sites with Exchange Server – 1 DC with GC

64 Bit Domain Controller Recommended

COEXISTENCE

Exchange 2007 – Not Supported

Exchange 2010 – SP3 RU11 or Higher

Exchange 2013 – CU 10 or Higher

Edge Transport – Same Requirement

Exchange 2013 + 2016 – Same LB

NAMESPACE IN COEXISTENCE

Protocol	Exchange 2010 user accessing Exchange 2013 namespace	Exchange 2010 user accessing Exchange 2016 namespace	Exchange 2013 user accessing Exchange 2016 namespace	Exchange 2016 user accessing Exchange 2013 namespace
OWA/ECP	Same AD Site: Proxy to CAS 2010 or Different AD Site: Silent SSO cross-site redirect (with External URL) or proxy (without External URL)	Same AD Site: Proxy Internal AD site: Proxy Externally facing AD site: Proxy or silent/SSO cross-site redirect	Same AD Site: Proxy to E2013 MBX w/Active DB Internal AD site: Proxy to E2013 MBX w/Active DB Externally facing AD site: Proxy to E2013 MBX w/Active DB or silent/SSO cross-site redirect	Same AD Site: Proxy to E2016 MBX w/Active DB Internal AD site: Proxy to E2016 MBX w/Active DB Externally facing AD site: Proxy to E2016 MBX w/Active DB or silent/SSO cross-site redirect
EAS	Proxy to CAS 2010	Proxy to CAS 2010	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
Outlook Anywhere	Proxy to CAS 2010	Proxy to CAS 2010	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
EWS	Proxy to CAS 2010	Proxy to CAS 2010	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
POP/IMAP	Proxy to CAS 2010	Proxy to CAS 2010	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
OAB	Proxy to CAS 2010	Proxy to CAS 2010	E2016 proxies the request to OAB generation mailbox with the OAB or a shadow copy of the OAB	E2013 proxies the request to OAB generation mailbox with the OAB or a shadow copy of the OAB
MAPI/HTTP	N/A	N/A	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
RPS	Proxy to CAS 2010	Proxy to CAS 2010	Proxy to MBX 2013 with Active DB	Proxy to Exchange 2016 with Active DB
AutoDiscover	Proxy to CAS 2010	Proxy to CAS 2010	E2016 proxies the AutoDiscover request to E2013 MBX with the user's active DB copy	E2013 CAS proxies the AutoDiscover request to the E2016 server with the user's active DB copy

SYSTEM REQUIREMENTS

Processor

x64 architecture-based computer with Intel processor

AMD processor that supports the AMD64 platform is supported

Memory

Mailbox Role 8GB

Edge Transport Role 4GB

Disk Space

30 GB Minimum Disk Space on Exchange Setup Drive

Page File

Physical RAM + 10 MB or Max 32778MB

PREREQUISITS

Operating System

Windows 2012 standard or higher OS

.Net Framework

4.5.2 Recommended

Microsoft Unified Communications Managed API 4.0 core Runtime

Windows Management Framework 4.0

IIS Feature

Install-WindowsFeature AS-HTTP-Activation, Desktop-Experience, NET-Framework-45-Features, RPC-over-HTTP-proxy, RSAT-Clustering, RSAT-Clustering-CmdInterface, RSAT-Clustering-Mgmt, RSAT-Clustering-PowerShell, Web-Mgmt-Console, WAS-Process-Model, Web-Asp-Net45, Web-Basic-Auth, Web-Client-Auth, Web-Digest-Auth, Web-Dir-Browsing, Web-Dyn-Compression, Web-Http-Errors, Web-Http-Logging, Web-Http-Redirect, Web-Http-Tracing, Web-ISAPI-Ext, Web-ISAPI-Filter, Web-Lgcy-Mgmt-Console, Web-Metabase, Web-Mgmt-Console, Web-Mgmt-Service, Web-Net-Ext45, Web-Request-Monitor, Web-Server, Web-Stat-Compression, Web-Static-Content,

DEPLOYMENT CHALLENGES

Supported Clients

Outlook 2010 SP2 or later with KB2956191 and KB2965295

Outlook 2013 SP1 or later with KB3020812

Outlook 2016

Outlook for Mac 2011 or Later

MAPI/CDO clients are not supported

Outlook 2007 is not supported

Outlook for MAC 2008 EWS version is not supported

Windows 2003 Domain Controller Supported Application

Forest Functional Level

Domain Functional Level

LDAP application dependency on Windows 2003 Dependency

3rd party dependency on Exchange 2007

Schema update

No LAB

MIGRATION CHALLENGES

3rd Party Application Integration

Windows NLB

3rd Party transport agent

No Lab Setup

Team Readiness

Budget

Change Approval

Back out Plans

Backups

Any other Challenge.

ON THE WAY

Search Indexing will be build from Passive database copy

Database failover will be faster

No Service Packs but Cumulative Update 1 coming early 2016

Auto Expandable Archives

More Interesting Features on the way.

MOVIE TIME

Introduction to Exchange 2016 – <https://youtu.be/sZsh7SH0dM4>

Smarter Inbox - <https://youtu.be/pKZZolmtmKA>

Collaboration - <https://youtu.be/jaLptymmfAs>

Outlook on the go - <https://youtu.be/Na1t18l0Ayk>

Performance, Architecture and Compliance - <https://youtu.be/dhJPcuYzX8U>

LAB CHECK

Let us experience Exchange 2016

SUMMARY

Exchange 2016 Overview

Compare Exchange 2010 with 2016

Exchange 2016 Coexistence

Exchange 2016 System and Prerequisite Requirements

Exchange 2016 Deployment and Migration Challenges

A decorative graphic on the left side of the slide, consisting of a network of light blue lines and small circles, resembling a circuit board or a stylized tree structure.

QUESTIONS???

CONNECTIONS FOR MORE

- Feedback: Prabhat@MSEExchangeGuru.com
- Blog: <http://MSEExchangeGuru.com>

- ✓ Twitter: #MSEExchangeGuru
- ✓ Facebook: @MSEExchangeGuru
- ✓ YouTube: MSEExchangeGuru Channel
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Microsoft Exchange Server 2013

- ✓ Facebook: Microsoft Exchange 2016
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