

#	Command Location	Cmd Line	What it does	How to check
5	OnPremises	Set-HybridConfiguration -ClientAccessServers \$null - ExternalIPAddresses \$null -Domains 'contoso.ca' - OnPremisesSmartHost 'mail.contoso.ca' - TLSCertificateName '<I>CN=GeoTrust TLS DV RSA Mixed SHA256 2020 CA-1, O=DigiCert Inc, C=US<S>CN=mail.contoso.ca' -SendingTransportServers 'E2016-01' -ReceivingTransportServers 'E2016-01' - EdgeTransportServers \$null -Features FreeBusy,MoveMailbox,Mailtips,MessageTracking,OwaRedirection,OnlineArchive,SecureMail,Photos	Creates new Hybrid configuration, sets OnPrem Smarthost, defines sending/receiving OnPrem Hub transport and/or Edge servers for OnPrem <> ExO mail flow, lists features for OnPrem/ExO features for coexistence	Run <i>Get-HybridConfiguration</i> cmdlet from OnPrem, check all parameters
7	OnPremises	New-RemoteDomain -Name 'Hybrid Domain - contoso.mail.onmicrosoft.com' -DomainName 'contoso.mail.onmicrosoft.com'	Creates new Remote domain .mail.onmicrosoft.com	Run <i>Get-RemoteDomain</i> ? {\$_ .DomainName -like "* .onmicrosoft.com"} from OnPrem, check .mail.onmicrosoft.com domain is listed.
8	OnPremises	Set-RemoteDomain -TargetDeliveryDomain: \$true - Identity 'Hybrid Domain - contoso.mail.onmicrosoft.com'	additional .mail.onmicrosoft.com parameters (targetDeliveryDomain only)	
9	OnPremises	New-RemoteDomain -Name 'Hybrid Domain - contoso.onmicrosoft.com' -DomainName 'contoso.onmicrosoft.com'	Creates new Remote domain .onmicrosoft.com (without the ".mail" prefix)	
10	OnPremises	Set-RemoteDomain -TrustedMailInboundEnabled: \$true - Identity 'Hybrid Domain - contoso.onmicrosoft.com'	additional .onmicrosoft.com (without .mail prefix) parameters - TargetDeliveryDomain only	Check "TargetDeliveryDomain" is set to \$True for both .mail.onmicrosoft.com and .onmicrosoft.com.
11	OnPremises	New-AcceptedDomain -DomainName 'contoso.mail.onmicrosoft.com' -Name 'contoso.mail.onmicrosoft.com'	creates accepted domain .mail.onmicrosoft.com	<i>Get-AcceptedDomain</i> *mail.onmicrosoft.com* and confirm it's there
12	OnPremises	Set-EmailAddressPolicy -Identity 'Default Policy' - ForceUpgrade: \$true -EnabledEmailAddressTemplates 'SMTP:@contoso.ca','smtp:%m@contoso.mail.onmicrosoft.com'	updates default policy with .mail.onmicrosoft.com secondary smtp address	<i>Get-EmailAddressPolicy</i> 'Default Policy' fl <i>EnabledEmailAddressTemplates</i> and check you have .mail.onmicrosoft.com as secondary smtp address
13	OnPremises	Update-EmailAddressPolicy -Identity 'Default Policy' - UpdateSecondaryAddressesOnly: \$true	run the Default Email address policy to update secondary smtp on all recipients	check some recipients that they have .mail.onmicrosoft.com secondary SMTP address

14	OnPremises	New-OrganizationRelationship -Name 'On-premises to 0365 - 177cd94d-be11-44e9-b09f-db69389f3a35' - TargetApplicationUri \$null -TargetAutodiscoverEpr \$null -Enabled: \$true -DomainNames 'contoso.mail.onmicrosoft.com'	creates an organization relationship from OnPrem to tenant, specifying tenant domain name .mail.onmicrosoft.com	<i>Get-OrganizationRelationship 'On-premises to 0365*' fl</i> and check the properties (.mail.onmicrosoft.com should be on DomainNames property)
15	Tenant	New-OrganizationRelationship -Name '0365 to On-premises - a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' - TargetApplicationUri \$null -TargetAutodiscoverEpr \$null -Enabled: \$true -DomainNames 'contoso.ca'	creates an organization relationship from tenant to OnPrem	<i>Get-OrganizationRelationship '0365 to On-premises*' fl</i> and check the properties (your internal domain(s) should be on DomainNames property)
17	OnPremises	Set-OrganizationRelationship -MailboxMoveEnabled: \$true -FreeBusyAccessEnabled: \$true - FreeBusyAccessLevel LimitedDetails - ArchiveAccessEnabled: \$true -MailTipsAccessEnabled: \$true -MailTipsAccessLevel All - DeliveryReportEnabled: \$true -PhotosEnabled: \$true - TargetOwaURL 'http://outlook.com/owa/contoso.ca' - Identity 'On-premises to 0365 - 177cd94d-be11-44e9-b09f-db69389f3a35'	sets OnPrem to tenant Org relationship properties (F/B enabled, limited details, etc...	<i>Get-OrganizationRelationship 'On-premises to 0365*' fl</i> and check the properties
18	Tenant	Set-OrganizationRelationship -FreeBusyAccessEnabled: \$true -FreeBusyAccessLevel LimitedDetails - TargetSharingEpr \$null -MailTipsAccessEnabled: \$true - MailTipsAccessLevel All -DeliveryReportEnabled: \$true -PhotosEnabled: \$true -TargetOwaURL 'https://mail.contoso.ca/owa' -Identity '0365 to On-premises - a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5'	sets tenant to OnPrem Org relationship properties (F/B enabled, limited details, etc...	<i>Get-OrganizationRelationship '0365 to On-premises*' fl</i> and check the properties (your internal domain(s) should be on DomainNames property)
19	OnPremises	Add-AvailabilityAddressSpace -ForestName 'contoso.mail.onmicrosoft.com' -AccessMethod InternalProxy -UseServiceAccount: \$true -ProxyUrl 'https://mail.contoso.ca/ews/Exchange.asmx'	adds Availability address space for .mail.onmicrosoft.com to enable Free/Busy lookups for OnPrem contacts corresponding to 0365 mailboxes	<i>Get-AvailabilityAddressSpace fl</i> and check the properties

22	OnPremises	Set-HybridConfiguration -ClientAccessServers \$null - ExternalIPAddresses \$null	sets Hybrid configuration CAS and ExtIP to \$null again (already did earlier with additional parameters...why ?)	
23	OnPremises	New-SendConnector -Name 'Outbound to Office 365 - 177cd94d-be11-44e9-b09f-db69389f3a35' -AddressSpaces 'smtp:contoso.mail.onmicrosoft.com;1' - DNSRoutingEnabled: \$true -ErrorPolicies Default -Fqdn 'mail.contoso.ca' -RequireTLS: \$true -IgnoreSTARTTLS: \$false -SourceTransportServers 'E2016-01' -SmartHosts \$null -TLSEAuthLevel DomainValidation - DomainSecureEnabled: \$false -TLSDomain 'mail.protection.outlook.com' - CloudServicesMailEnabled: \$true -TLSCertificateName '<I>CN=GeoTrust TLS DV RSA Mixed SHA256 2020 CA-1, O=DigiCert Inc, C=US<S>CN=mail.contoso.ca'	Creates send connector for mail flow from OnPrem users to migrated users through dedicated send connector (address space = .mail.onmicrosoft.com). Mail goes outside to 0365 tenant through DNS resolution. NOTE: migrated users are translated to mail enabled users OnPrem, with same e-mail addresses (in proxyAddresses AD attribute), and TargetAddress as user@<domain>.mail.onmicrosoft.com address.	get-sendconnector 'Outbound to Office*' fl and check you have "{SMTP:canadadrey.onmicrosoft.com;1, smtp:canadadrey.mail.onmicrosoft.com;1}" on Address Spaces, and check the other properties such as the source transport servers, ...
24	OnPremises	Set-ReceiveConnector -AuthMechanism 'Tls, Integrated, BasicAuth, BasicAuthRequireTLS, ExchangeServer' - Bindings '[:,]:25','0.0.0.0:25' -Fqdn 'E2016-01.contoso.ca' -PermissionGroups 'AnonymousUsers, ExchangeServers, ExchangeLegacyServers' - RemoteIPRanges '::- ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff','0.0.0.0-255.255.255.255' -RequireTLS: \$false - TLSDomainCapabilities 'mail.protection.outlook.com:AcceptCloudServicesMail' -TLSCertificateName '<I>CN=GeoTrust TLS DV RSA Mixed SHA256 2020 CA-1, O=DigiCert Inc, C=US<S>CN=mail.contoso.ca' -TransportRole FrontendTransport -Identity 'E2016-01\\Default Frontend E2016-01'	Sets the Default FrontEnd <ServerName> Receive Connector with TLSDomainCapabilities for EOP endpoint (mail.protection.outlook.com) with proper certificate...	<i>Get-ReceiveConnector</i> " <i><ServerName>\Default Frontend*</i> " <i>fl</i> and check the TLSDomainCapabilities property

25	Tenant	New-InboundConnector -Name 'Inbound from a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' - CloudServicesMailEnabled: \$true -ConnectorSource HybridWizard -ConnectorType OnPremises -RequireTLS: \$true -SenderDomains '*' -SenderIPAddresses \$null - RestrictDomainsToIPAddresses: \$false - TLSSenderCertificateName 'mail.contoso.ca' - AssociatedAcceptedDomains \$null	Creates an Inbound Connector on the tenant	Tenant: <i>Get-InboundConnector "Inbound from*" fl</i> and check properties
26	Tenant	New-OutboundConnector -Name 'Outbound to a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' -RecipientDomains 'contoso.ca' -SmartHosts 'mail.contoso.ca' - ConnectorSource HybridWizard -ConnectorType OnPremises -TLSSettings DomainValidation -TLSDomain 'mail.contoso.ca' -CloudServicesMailEnabled: \$true - RouteAllMessagesViaOnPremises: \$false -UseMxRecord: \$false -IsTransportRuleScoped: \$false	Creates an Outbound connector	Tenant: <i>Get-Outboundconnector "Outbound to*" fl</i> and check properties
27	Tenant	New-OnPremisesOrganization -HybridDomains 'contoso.ca' -InboundConnector 'Inbound from a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' -OutboundConnector 'Outbound to a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' - OrganizationRelationship '0365 to On-premises - a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' - OrganizationName contosoMSG -Name 'a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' -OrganizationGuid 'a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5'	Creates On Premises Organization object with OnPrem hybrid environment information, such as Inbound Connector ID just created, Outbound connector ID just created, Organization Relationship information on the tenant...	Tenant: <i>Get-OnPremisesOrganization fl</i> and check properties
30	OnPremises	New-IntraOrganizationConnector -Name 'HybridIOC - 177cd94d-be11-44e9-b09f-db69389f3a35' - DiscoveryEndpoint 'https://autodiscover-s.outlook.com/autodiscover/autodiscover.svc' - TargetAddressDomains 'contoso.mail.onmicrosoft.com' - Enabled: \$true	creates an Intra Organization Connector object on premises - that helps enabling OAuth2 On-Premises to enable information exchange between Exchange OnPrem and Exchange Online on behalf of users.	<i>Get-IntraOrganizationConnector fl</i> and check all properties

31	Tenant	New-IntraOrganizationConnector -Name 'HybridIOC - a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' - DiscoveryEndpoint 'https://mail.contoso.ca/autodiscover/autodiscover.svc' -TargetAddressDomains 'contoso.ca' -Enabled: \$true	Creates an Intra Organization Connector object on the tenant	Tenant: <i>Get-IntraOrganizationConnector /fl</i> and check all properties, especially if it's enabled
35	OnPremises	Set-PartnerApplication -Identity 'Exchange Online' - Enabled: \$true	Sets Partner Application for Oauth (Exchange Online)	Run <i>Get-PartnerApplication 'Exchange Online' / fl</i> and check all properties
36	OnPremises	New-AuthServer -Name 'ACS - 177cd94d-be11-44e9-b09f-db69389f3a35' -AuthMetadataUrl 'https://accounts.accesscontrol.windows.net/e5923069-9fac-4809-b7c9-a0893265a0e0/metadata/json/1' - DomainName 'contoso.ca','contoso.mail.onmicrosoft.com'	Sets ACS auth server information for Oauth2	<i>get-authserver / fl ObjectCategory,Name, *token*, enabled</i>
37	OnPremises	New-AuthServer -Name 'EvoSts - 177cd94d-be11-44e9-b09f-db69389f3a35' -AuthMetadataUrl 'https://login.windows.net/contoso.onmicrosoft.com/federationmetadata/2007-06/federationmetadata.xml' - Type AzureAD	Sets EvoSts auth server information for Oauth2	
39	Tenant	Test-MigrationServerAvailability -ExchangeRemoteMove: \$true -RemoteServer 'mail.contoso.ca' -Credentials (Get-Credential -UserName contoso\SAMDREY)	tests if Migration Endpoint FQDN is reachable and available with credentials of account OnPrem with Exchange Admin rights	
40	Tenant	New-MigrationEndpoint -Name 'Hybrid Migration Endpoint - EWS (Default Web Site)' - ExchangeRemoteMove: \$true -RemoteServer 'mail.contoso.ca' -Credentials (Get-Credential - UserName contoso\samdrey)	Creates migration endpoint object targetting OnPrem server chosen for Migration Endpoint - NOTE: the OnPrem chosen server MUST have MRSProxy enabled, and proper certificate with Migration endpoint Subject name installed and enabled for IIS services	Tenant: <i>Get-MigrationEndpoint / fl</i> and check all properties

42	Tenant	Set-OnPremisesOrganization -Identity 'a3e87a2d-b84e-43cb-bf18-59aac4c4f1e5' -Comment 'rZTLTsJQEIbnUYwPgIVyKQZZWCSaaFwUdV3bisjNtKDy8uo30+LC CAU1J6dn5szl/zsz7cd7R3xZSspKZCYL6clcphLKC01ABrKSZywn igBcoZHgr2CtiBGvYbYumQJkU0J2T3LtsIrQuvI0RaMLvYr9BjbPn h9Mk5Y53jdmyU2pHUuzXuN5Qk5ItbnfiYP+A1BSY1thp4gb8M9JW4 OTmIROXKInnGjeLtiKB+fuFFRg1u7zdDnJZW+MP+m1A29Li3xpCEO pz6bUuX00NrIX1HtTTjKogcvzT3gbsp5gxaZFskYz925NMU1Ng7bN QbKrIFUY+UslU8ZorIKj0eLPX9fm5qtKrsNd14Rz+5dtnLZjKMslm GafXVyVvR1jpcvj5zKePuc1s3Lbgj5tHz36GNNLfpm3gw/Lfoc/XM fXeuhY5XTiWsVc/U3RvpWdxY35quYIL0yG0v7UhY7dHs9PwH2dXUd 1jG7yrM084q9RwNdWefzV4b5E68An8jeIrH/Sbxn1/X7XxY9L8/d1 U8='	Sets a comment on OnPrem organization (hash signature ? To search ...)	Tenant: <i>Get-OnPremisesOrganization</i> / <i>fl</i> and check properties, especially the "Comment" property that just got added.
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