Understand the results of the troubleshooting task

The troubleshooting task performs the following checks:

1. Detect UPN mismatch if the object is synced to Azure Active Directory
2. Check if object is filtered due to domain filtering
3. Check if object is filtered due to OU filtering
4. Check if object synchronization is blocked due to a linked mailbox
5. Check if object is dynamic distribution group which is not supposed to be synchronized

The rest of this section describes specific results that are returned by the task. In each case, the task provides an analysis followed by recommended actions to resolve the issue.

Detect UPN mismatch if object is synced to Azure Active Directory

UPN Suffix is NOT verified with Azure AD Tenant

When UserPrincipalName (UPN)/Alternate Login ID suffix is not verified with the Azure AD Tenant, then Azure Active Directory replaces the UPN suffixes with the default domain name "onmicrosoft.com".

```
Checking UserPrincipalName (UPN) Mismatch...

USERPRINCIPALNAME MISMATCH - ANALYSIS:
-------------------------------------
For the given user object there is a "userPrincipalName" attribute value mismatch between AADConnect and AAD Tenant.

AADConnect object "userPrincipalName" attribute value is:
erdinc_testuser@F2.NuAlex.net

AAD Tenant object "userPrincipalName" attribute value is:
erdinc_testuser@NuAlex.onmicrosoft.com

UPN suffix "F2.NuAlex.net" is NOT verified with AAD Tenant "NuAlex.onmicrosoft.com" as a domain.
Azure Active Directory replaces such UPN suffixes with default domain name "onmicrosoft.com".

When the UPN suffix is NOT verified with the AAD Tenant, Azure AD takes the following inputs into account in the given
          1- On-Premises "mailNickname" attribute
          2- Primary SMTP Address
          3- On-Premises "mail" attribute
          4- UserPrincipalName/Alternate Login ID


USERPRINCIPALNAME MISMATCH - RECOMMENDED ACTIONS:
------------------------------------------------
1- Verify current UPN suffix with AAD Tenant
In order to use "erdinc_testuser@F2.NuAlex.net" as Azure Active Directory username, you need to verify UPN suffix "F2.N
In order to verify a domain name with AAD Tenant, please see: https://go.microsoft.com/fwlink/?linkid=862773


2- Alternative UPN Suffix
As another option, you may consider adding an alternative UPN suffix to your on-premises accounts.
Please see: https://go.microsoft.com/fwlink/?linkid=862772


3- Run "Set-MsolUserPrincipalName" Cmdlet
Apart from the UPN mismatch, if you are only interested in changing AAD Tenant user object "userPrincipalName" attribut
In order to learn about the cmdlet, please see: https://go.microsoft.com/fwlink/?linkid=866303
```

Azure AD Tenant DirSync Feature 'SynchronizeUpnForManagedUsers' is disabled

When the Azure AD Tenant DirSync Feature 'SynchronizeUpnForManagedUsers' is disabled, Azure Active Directory does not allow synchronization updates to UserPrincipalName/Alternate Login ID for licensed user accounts with managed authentication.

```
Checking UserPrincipalName (UPN) Mismatch...

USERPRINCIPALNAME MISMATCH - ANALYSIS:
----------------------------------------
For the given user object there is a "userPrincipalName" attribute value mismatch between AADConnect and AAD

AADConnect object "userPrincipalName" attribute value is:
erdinc_testuser2@AAD.NuAlex.net

AAD Tenant object "userPrincipalName" attribute value is:
erdinc_testuser2@Corp.NuAlex.net

Updates to "userPrincipalName" attribute of the AAD Tenant object "erdinc_testuser2@Corp.NuAlex.net" is block

USERPRINCIPALNAME MISMATCH - RECOMMENDED ACTIONS:
----------------------------------------
AAD Tenant DirSync feature "SynchronizeUpnForManagedUsers" should be enabled to unblock updates.
Once AAD Tenant DirSync feature "SynchronizeUpnForManagedUsers" is enabled, it cannot be disabled.

For more information, please see "Scenario 2" in the following: https://go.microsoft.com/fwlink/?linkid=86633
```

Object is filtered due to domain filtering

Domain is not configured to sync

Object is out of scope due to domain not being configured. In the example below, the object is out of sync scope as the domain that it belongs to is filtered from synchronization.

```
Checking Domain Filtering configuration...

DOMAIN FILTERING - ANALYSIS:
----------------------------------------
Object is not present in sync scope. Object belongs to domain DC=child,DC=bvtforest1,DC=com which is filtered from synch
ronization.

DOMAIN FILTERING - RECOMMENDED ACTIONS:
----------------------------------------
Include the partition DC=child,DC=bvtforest1,DC=com in the list of domains that should be synced. To read more on how to
 do this, please see: https://go.microsoft.com/fwlink/?linkid=866237
```

Domain is configured to sync but is missing run profiles/run steps

Object is out of scope as the domain is missing run profiles/run steps. In the example below, the object is out of sync scope as the domain that it belongs to is missing run steps for the Full Import run

profile.

```
Checking Domain Filtering configuration...

DOMAIN FILTERING - ANALYSIS:
-------------------------------
No run steps are configured for directory partition DC=child,DC=bvtforest1,DC=com for some run profile(s), namely: Full
Import.

DOMAIN FILTERING - RECOMMENDED ACTIONS:
-----------------------------------------
Add steps to the above run profile(s) to include the partition DC=child,DC=bvtforest1,DC=com. To read more on how to do
this, please see: https://go.microsoft.com/fwlink/?linkid=866237
```

Object is filtered due to OU filtering

The object is out of sync scope due to OU filtering configuration. In the example below, the object belongs to OU=NoSync,DC=bvtadwbackdc,DC=com. This OU is not included in sync scope.

```
Checking OU Filtering configuration...

OU FILTERING - ANALYSIS:
------------------------
Object is not present in sync scope. It belongs to a container OU=NoSync,DC=bvtadwbackdc,DC=com that is excluded from sy
ncing.

OU FILTERING - RECOMMENDED ACTIONS:
-------------------------------------
Include the container OU=NoSync,DC=bvtadwbackdc,DC=com in the list of organizational units that should be synced. To rea
d more on how to do this, please see: https://go.microsoft.com/fwlink/?linkid=866235
```

Linked Mailbox issue

A linked mailbox is supposed to be associated with an external master account located in another trusted account forest. If there is no such external master account, then Azure AD Connect will not synchronize the user account corresponds to the linked mailbox in

the Exchange forest to the Azure AD tenant.

```
Checking Linked Mailbox related issues...

LINKED MAILBOX ISSUE - ANALYSIS:
--------------------------------
Azure AD Connect cannot synchronize the given user object to Azure AD tenant since the object has on-premises li

The exchange recipient type "Linked Mailbox" is specified with the on-premises AD attribute "msExchRecipientTypeD

LINKED MAILBOX ISSUE - RECOMMENDED ACTIONS:
-------------------------------------------
1- Convert the linked mailbox to a user mailbox.
In case the given user object is represented only once across all on-premises directories, then you may consider
In order to learn how to convert the mailbox, please see: https://go.microsoft.com/fwlink/?linkid=871132
In order to learn how objects are represented only once across all on-premises directories, please see "Uniquely

2- Create an active user account in another on-premises account forest joining into the same user object.
A linked mailbox is supposed to be associated with a disabled user account or contact object joining into an act
In order to learn how objects join from different on-premises forests, please see "Uniquely identifying your user
In order to learn about account-resource forest topology, please see "Multiple forests: account-resource forest"
```

Dynamic Distribution Group issue

Due to various differences between on-premises Active Directory and Azure Active
Directory, Azure AD Connect does not synchronize dynamic distribution groups to the
Azure AD tenant.

```
Please enter AD object Distinguished Name: CN=                    ,OU=
The given object is a dynamic distribution group. Azure AD Connect does
```

HTML Report

In addition to analyzing the object, the troubleshooting task also generates an HTML
report that has everything known about the object. This HTML report can be shared with
support team to do further troubleshooting, if needed.

```
HTML REPORT:
-----------
Detailed HTML Report has been exported to file C:\ProgramData\AADConnect\ADSyncObjectDiagnostics\20180202232241-CN=vin,C
N=Users,DC=child,DC=bvtforest1,DC=com.htm.
```