

**KNOWLEDGE BASE ARTICLE**

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# Display Custom Attribute of an Azure AD User in Employee Directory



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Extension attributes in the on-premise active directory (AD) allow extending directory objects with new attributes. These attributes may be synchronized with **Azure AD**. Once the attributes are synced, you may display them on the SharePoint site and Microsoft Teams with the Employee Directory web part.

This article describes how to set up the Employee Directory web part to display custom attributes of user object from Azure AD.

## Attribute Name

Custom attributes are not named like they are in the on-premises AD, for example, *fax*. Instead, the custom attribute' name in Azure AD is like below:

```
extension_{uniqueid}_attributeName
```

Therefore to use custom attributes, you need to retrieve their names from Azure AD.

## Precondition

Additional PowerShell modules are required to interact with the Microsoft 365 environment. Open PowerShell and run the following cmdlets to install [MSOnline](#) and [AzureAD](#) modules:

```
Install-Module -Name MSOnline
```

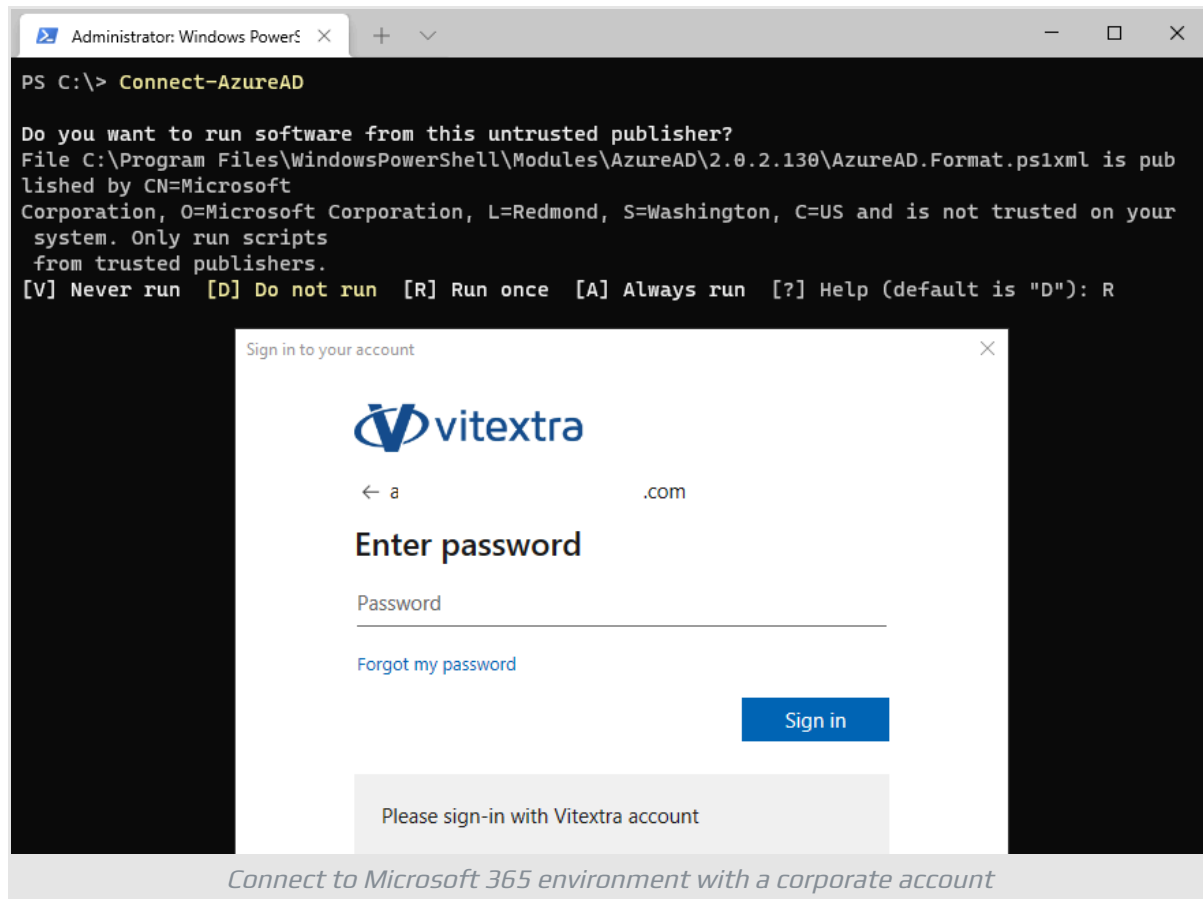
```
Install-Module -Name AzureAD
```

## Connect to your environment

Run the *Connect-AzureAD* cmdlet to connect to your Microsoft 365 environment.

```
Connect-AzureAD
```

And sign in with your corporate account.



## Getting Custom Attributes

Replace `dbadmin@vitextra.onmicrosoft.com` with the user login in your Azure AD, which has the necessary attributes, and run the script below.

```
$userLogin = "dbadmin@vitextra.onmicrosoft.com"  
Get-AzureADUser -ObjectId $userLogin | Select -ExpandProperty  
ExtensionProperty
```

The result listed extension properties that may be used as custom attributes in the Employee Directory web part.

```
Administrator: Windows PowerS... x + - □ ×
PS C:\> $userLogin = "userlogin@vitextra.com"
PS C:\> Get-AzureADUser -ObjectId $userLogin | Select -ExpandProperty ExtensionProperty

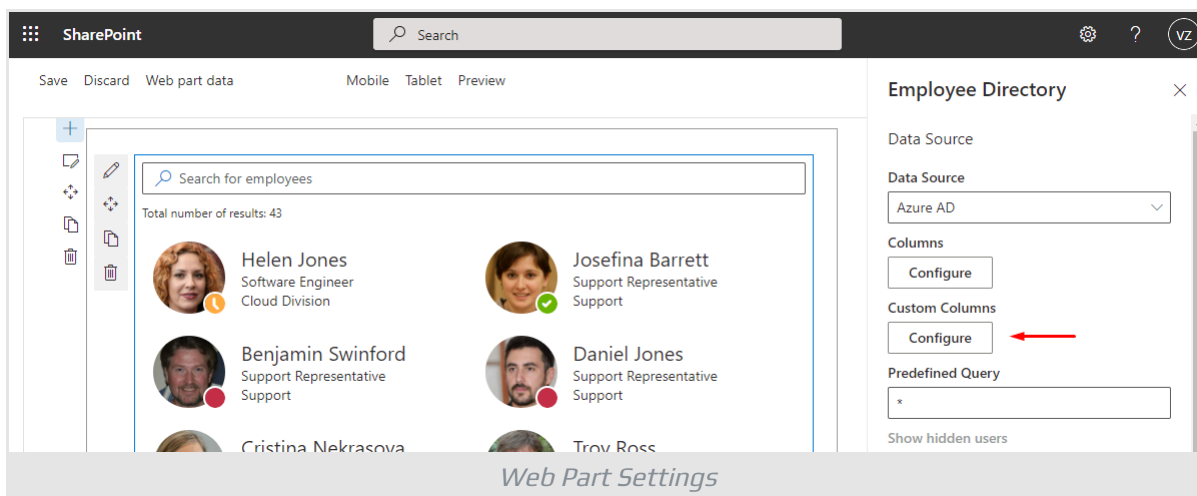
Key                                     Value
---                                     -
odata.metadata                         https://graph.windows...
odata.type                              Microsoft.DirectorySer...
createdDateTime                         3/4/2021 12:28:00 PM
employeeId
onPremisesDistinguishedName            CN=dbadmin,CN=Users,DC...
userIdentities                          []
extension_ebe3ddf036a240249e34ab0b31e354bd_ipPhone 2207
extension_ebe3ddf036a240249e34ab0b31e354bd_facsimileTelephoneNumber 555 4444-33-22

PS C:\> |
```

Extension Property of user object in Azure AD

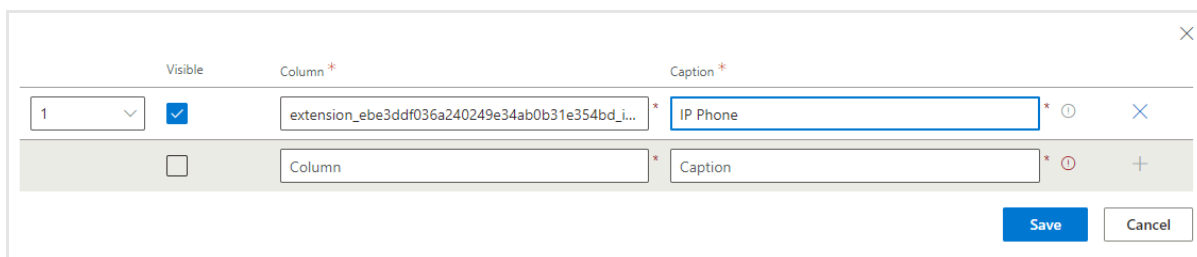
## Web Part Properties

Open the page where the Employee Directory web part is placed in edit mode and go to web part settings, and select **Configure** under *Custom Columns* heading:




Web Part Settings

Add custom attributes to the list and click **Save** button.

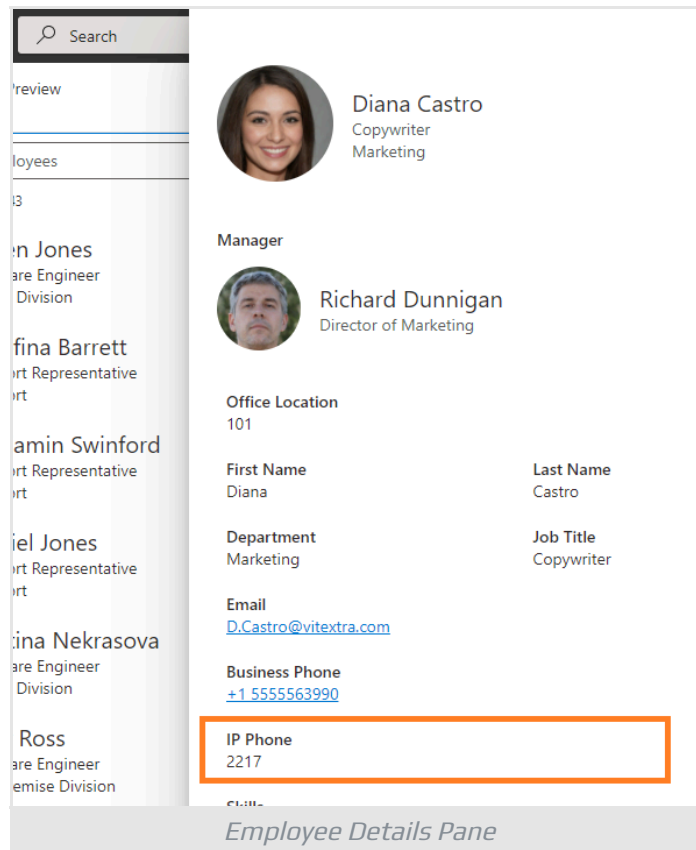


Custom Columns Settings

 **Note**

Both Employee Directory and Employee Directory (Azure AD) have similar settings according to custom user properties.

Once custom attributes are defined, marked as visible of them shows up on the employee details pane:



Publish the page to save changes.

# Terms

## **Azure AD (Active Directory)**

Azure Active Directory is a cloud-based identity provider which allows employees in your organization sign in and get access to Microsoft 365 as well as many other SaaS applications.