**Comprehensive Guide for Bulk User Account Creation: Integrating Entra ID with On-Premise Active Directory via PowerShell**

**Download the CSV Template**: Begin by obtaining the CSV template from Entra ID. This is a crucial first step to ensure that the information you collect about each user conforms to the required format for successful import.

1. **Fill Out User Information**: Carefully enter user information into the CSV template according to the fields provided. This data will be used to create user accounts within the Azure/Entra ID Portal.
2. **Upload and Verify in Entra ID Portal**: After populating the CSV file with user details, upload it to the Azure/Entra ID Portal. Post-upload, you should see the users successfully added. Initially, these users will have their "On-premises sync" status set to "No".
3. **Prepare for Synchronization**: Access the domain controller on-premises that has AD Connect installed. This step is essential for synchronizing the newly created cloud user accounts with your on-premises Active Directory.
4. **Execute PowerShell Command**: To export a list of all Azure AD users along with their details, run the following PowerShell command:

PowerShell

Get-AzureADUser -All $true | Select-Object DisplayName, UserPrincipalName, @{Name="Initial password [passwordProfile]"; Expression={"Placeholder If users have a password set in EntraID"}}, AccountEnabled, GivenName, Surname, JobTitle, Department, UsageLocation, StreetAddress, State, Country, PhysicalDeliveryOfficeName, City, PostalCode, TelephoneNumber, Mobile | Export-Csv -Path "AzureADUsers.csv" -NoTypeInformation

1. **Locate and Use the CSV File**: Find the **AzureADUsers.csv** file at the specified location. This file contains the exported user details necessary for the next steps.
2. **Run PowerShell Script**: Open PowerShell ISE as an administrator and execute the following script to create user accounts in your on-premises Active Directory based on the CSV file:

PowerShell

$$users = Import-Csv -Path "AzureADUsers.csv" # Adjust the path as necessary

foreach ($user in $users) {

if ([string]::IsNullOrWhiteSpace($user.DisplayName)) {

continue

}

$params = @{

SamAccountName = $user.UserPrincipalName.Split("@")[0]

Name = $user.DisplayName

DisplayName = $user.DisplayName

GivenName = $user.GivenName

Surname = $user.Surname

Enabled = $user.AccountEnabled -eq "True"

AccountPassword = (ConvertTo-SecureString -AsPlainText $user."Initial password [passwordProfile]" -Force)

Path = "CN=Users,DC=yourdomain,DC=com" # Update the domain details accordingly

ChangePasswordAtLogon = $false

Title = $user.JobTitle

Department = $user.Department

# Additional attributes

StreetAddress = $user.StreetAddress

State = $user.State

Country = $user.Country

OfficePhone = $user.TelephoneNumber

Mobile = $user.Mobile

Office = $user.PhysicalDeliveryOfficeName

City = $user.City

PostalCode = $user.PostalCode

}

try {

New-ADUser @params -ErrorAction Continue

Write-Host "Successfully created user: $($user.DisplayName)"

} catch {

Write-Host "Failed to create user: $($user.DisplayName) because of error: $\_"

}

}

This comprehensive guide should streamline the process of bulk user account creation from Entra ID to AD Connect, facilitating seamless synchronization of user accounts from cloud to on-premises.