



The problem...

Legacy File Shares and Access Control Madness

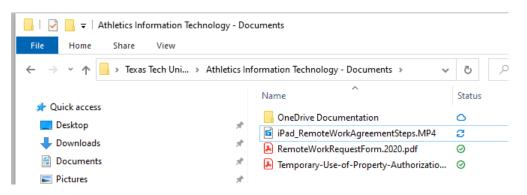
- Windows file shares
- Hosted on leased servers in our campus data center
- Only accessible off campus with VPN
- Permissions are difficult to audit
- Manual processes when managing incoming/exiting employees
- Tons of direct access

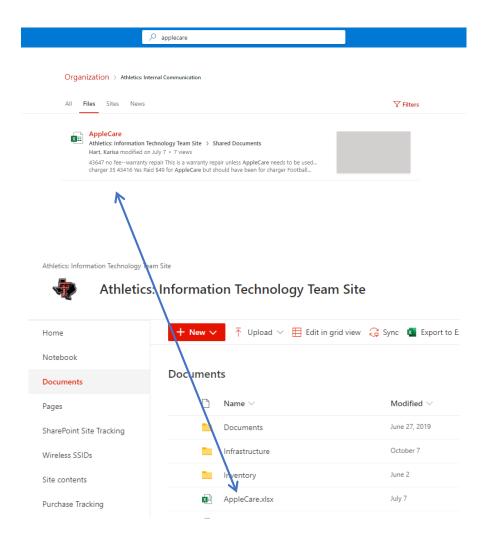


The solution...

Part 1 - SharePoint

- Migrate legacy file shares to SharePoint Online
 - SharePoint Migration Tool
- Use of hub site for department and communication/team sites for units
- Unified search regardless of location
- Use of OneDrive client to sync document library



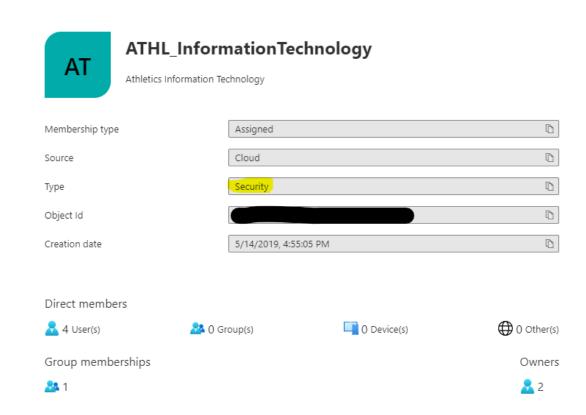




The solution...

Part 2 - Azure AD Security Groups

- Azure AD security groups created for each unit
- SharePoint access granted to Azure AD groups
- These are NOT Office 365 groups

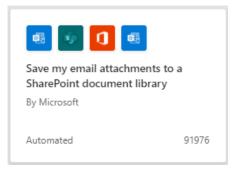




The solution...

Part 3 - Automation!

- Employee data sourced from ERP via BI reporting
- Report delivered via email
- Report is moved and archived to SharePoint via Power Automate
- PowerShell script retrieves stored report and then...
 - Adds users to their unit's group
 - Removes employees no longer part of the department
 - · Moves individuals changing units



```
function DownloadFileFromSharePoint{
Connect-PnPOnline -url $SITE_URL -Credential $Credential
#Retrieve items from document library.
$LIST_ITEMS = Get-PnPListItem -List $DOC_LIB
#Loop through items and look for file for today's date.
=Foreach($ITEM in $LIST_ITEMS){
 #Initialize variables for loop.
  $DOC_NAME = (Get-PNPListItem -List $DOC_LIB -id $DOC_ID).FieldValues.FileLeafRef
  #See if current file matches today's date
 If($DOC_NAME -like ($SEARCH_STRING + "=")){
Write-Log ("File Found!!! NAME: " + $DOC_NAME)
   #Download file to local storage.
  Write-Log "Downloading file..."
$DOC_URL = (Get-PNPListItem -List $DOC_LIB -id $DOC_ID).FieldValues.FileRef
   Get-PNPFile -Url $DOC_URL -Path $DOWNLOAD_LOC -FileName $DOWNLOAD_FILE_NAME -AsFile -Force
  #Delete file from SharePoint library.
#####Write-Log "Deleting file from library..."
#####Remove-PNPFile -ServerRelativeUrl $DOC_URL -Force
  AddUsersToGroups
$PROCESS_RAN = "YES"
 If($PROCESS_RAN -eq "YES"){
    Write-Log "File was downloaded and groups were altered...'
  Write-Log "File was not downloaded and groups were NOT altered..."
##### Add Users to Azure AD Groups Function #####
Connect-AzureAD -Credential $Credential
#Reset array used for group checks.
$GroupArray = @()
#Add custom column headers not in cognos report
Import-Csv $LOCAL_FILE_PATH -Delimiter "'t" | Select-Object *,'SkipSanitize' | Export-Csv $CSV_FILE_PATH -Delimiter "'t" -NoTypeInformation
#Add manual group mappings to CSV prior to processing.
#Get-Content $MANUAL_MAPPING_FILE | WHERE ReadCount -gt 1 >> $CSV_FILE_PATH
Import-Csv $MANUAL_MAPPING_FILE -Delimiter "'t" | Select-Object * | Export-Csv $CSV_FILE_PATH -Delimiter "'t" -Append -NoTypeInformation
#Import department users from CSV.
```

