L

**You said**

if amount is SGD 5,000 , SGD 2,000. how to sum in excel

**Copilot said**

If you have amounts like SGD 5,000 and SGD 2,000 in Excel, you can sum them using the SUM function, just as you would with any other numbers. Here's how you can do it:

1. **Enter the Amounts**:
   * In cell A1, enter SGD 5,000.
   * In cell A2, enter SGD 2,000.
2. **Format the Cells as Currency**:
   * Select the cells containing the amounts (A1 and A2).
   * Right-click and choose Format Cells.
   * Select Currency from the list and ensure the currency symbol is set to SGD (S$).
3. **Use the SUM Function**:
   * Click on the cell where you want the total sum to appear (let's say A3).
   * Type the formula =SUM(A1:A2) and press Enter.

Your Excel sheet should look like this:

| A |
| --- |
| SGD 5,000 |
| SGD 2,000 |
| **=SUM(A1:A2)** (Total in A3: SGD 7,000) |

Excel will calculate the sum and display SGD 7,000 in cell A3. This approach ensures the currency amounts are summed correctly and displayed with the proper formatting. If you need any further assistance, feel free to ask! 😊

**You said**

Even after converting Excel cell into currency format , sum function not working any possible reason

**Copilot said**

When the SUM function doesn't work even after converting cells to currency format, it could be due to a few common issues. Here are some troubleshooting steps:

1. **Check for Text Format**:
   * Sometimes, even if the cells appear as numbers, they might be stored as text.
   * To check this, select a cell and look at the formula bar. If there's an apostrophe (') before the number, it's stored as text.
   * To fix this, remove the apostrophe manually or use Text to Columns to convert the text to numbers:
     + Select the range of cells.
     + Go to the Data tab.
     + Click on Text to Columns.
     + Choose Delimited and click Next.
     + Click Next again and then Finish.
2. **Check for Hidden Characters**:
   * Sometimes cells contain hidden characters or spaces.
   * Use the TRIM function to remove any extra spaces. For example, if your data is in cell A1, use =TRIM(A1) in another cell and copy it down for all cells.
3. **Ensure Correct Formatting**:
   * Make sure the cells are formatted as Currency.
   * Select the range, right-click, choose Format Cells, and then select Currency.
4. **Array Formula Issue**:
   * If you're using an array formula, make sure to press Ctrl + Shift + Enter after typing the formula.
5. **Formula Auditing**:
   * Use Excel's built-in auditing tools to check for errors in the formula:
     + Select the cell with the SUM formula.
     + Go to the Formulas tab.
     + Click on Error Checking and follow the prompts to resolve any issues.

If none of these steps resolve the issue, could you provide more details about the specific error message or behavior you're encountering? I'd be happy to help you troubleshoot further! 😊

**You said**

This excel is merged one using python program, will that create any problem

**Copilot said**

The issue with the SUM function not working might be related to the way the Excel file was created or the formatting of the data within it. Here are a few potential reasons and solutions:

1. **Data Stored as Text**:
   * **Cause**: Sometimes, data might be stored as text, especially if it was imported or merged from different sources.
   * **Solution**: Use the VALUE function to convert text to numbers. For instance, if your data is in cell A1, you can use =VALUE(A1) in another cell to convert it to a number.
2. **Formatting Issues**:
   * **Cause**: The merged data might have retained some formatting issues.
   * **Solution**: Select the problematic cells, then go to Data > Text to Columns. Choose Delimited and click Next, then Finish to convert the text to numbers.
3. **Hidden Characters**:
   * **Cause**: There might be hidden characters or spaces in the data.
   * **Solution**: Use the TRIM function to remove any extra spaces. For example, if your data is in cell A1, you can use =TRIM(A1) in another cell.
4. **Check for Errors**:
   * **Cause**: There could be errors or inconsistencies in the data.
   * **Solution**: Use Excel's Error Checking feature under the Formulas tab to identify and resolve issues.

Here’s a small script to clean the data if you're working with Python:

python

Copy

import pandas as pd

# Read the Excel file

df = pd.read\_excel('merged\_file.xlsx')

# Convert columns to numeric, forcing errors to NaN

df = df.apply(pd.to\_numeric, errors='coerce')

# Save the cleaned data back to Excel

df.to\_excel('cleaned\_file.xlsx', index=False)

By using this script, any non-numeric values will be converted to NaN, and you can then handle these as needed in Excel.

Try these solutions and let me know if they help resolve the issue. If you still encounter problems, feel free to share more details, and I'll be happy to assist further! 😊

**You said**

What other options to sum curecny values in excel

**Copilot said**

If the standard SUM function isn't working for summing currency values in Excel, there are a few alternative methods you can try:

**1. Using the SUMPRODUCT Function**

The SUMPRODUCT function can be useful when working with specific conditions or dealing with complex data. Here’s how you can use it to sum currency values:

excel

Copy

=SUMPRODUCT(--(A1:A10))

This formula converts the text representations of numbers into actual numbers and sums them.

**2. Using an Array Formula**

Array formulas can handle ranges of data more dynamically. Enter this formula and press Ctrl + Shift + Enter to create an array formula:

excel

Copy

=SUM(VALUE(A1:A10))

**3. Using a Helper Column**

Create a helper column to ensure all currency values are correctly formatted as numbers:

1. In a new column, use the VALUE function to convert text to numbers:

excel

Copy

=VALUE(A1)

1. Drag the formula down to convert the entire range.
2. Use the SUM function on the helper column.

**4. Using VBA (Visual Basic for Applications)**

If you frequently deal with this issue, you can create a custom VBA function to sum currency values:

1. Press Alt + F11 to open the VBA editor.
2. Insert a new module (Insert > Module) and paste the following code:

vba

Copy

Function SumCurrency(rng As Range) As Double

Dim cell As Range

Dim total As Double

total = 0

For Each cell In rng

If IsNumeric(cell.Value) Then

total = total + cell.Value

End If

Next cell

SumCurrency = total

End Function

1. Close the VBA editor and use the new function in Excel like this:

excel

Copy

=SumCurrency(A1:A10)

These methods should help you sum currency values in Excel, even if the data has some formatting issues. Let me know if any of these solutions work for you or if you need further assistance! 😊

**You said**

Python program to merge all CSV in a given folder

**Copilot said**

Certainly! Here is a Python script that will merge all CSV files in a specified folder into a single CSV file. You'll need the pandas library for this, so ensure you have it installed using pip install pandas.

Here's the script:

python

Copy

import os

import pandas as pd

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create an empty list to store the dataframes

dataframes = []

# Iterate over all CSV files and add their content to the list

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = pd.read\_csv(file\_path)

dataframes.append(data)

# Concatenate all dataframes into a single dataframe

merged\_data = pd.concat(dataframes, ignore\_index=True)

# Specify the output file path

output\_file\_path = 'merged\_file.csv'

# Write the merged data to a CSV file

merged\_data.to\_csv(output\_file\_path, index=False)

print(f'Merged {len(csv\_files)} files into {output\_file\_path}')

Just replace 'path\_to\_your\_folder' with the actual path of your folder containing the CSV files. This script reads all .csv files in the specified folder, combines their data, and saves it as a new CSV file called merged\_file.csv.

Give it a try and let me know if you encounter any issues or need further assistance! 😊

**You said**

pandas.errors.ParserError: Error tokenizing data. C error: Expected 4 fields in line 14, saw 9

**Copilot said**

The pandas.errors.ParserError typically occurs when there are inconsistencies in the number of fields in your CSV files. Here are some steps to diagnose and resolve this issue:

**1. Check CSV Files for Inconsistencies**

* Open each CSV file and ensure that they have a consistent number of columns.
* Look for any irregularities, such as extra commas or misaligned data.

**2. Read CSV with Error Handling**

* Use pd.read\_csv with the error\_bad\_lines=False option to skip problematic lines. Note that this is a temporary solution and might result in missing data.

**Updated Script:**

python

Copy

import os

import pandas as pd

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create an empty list to store the dataframes

dataframes = []

# Iterate over all CSV files and add their content to the list

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

try:

data = pd.read\_csv(file\_path, error\_bad\_lines=False)

dataframes.append(data)

except pd.errors.ParserError as e:

print(f"Error parsing {file}: {e}")

# Concatenate all dataframes into a single dataframe

merged\_data = pd.concat(dataframes, ignore\_index=True)

# Specify the output file path

output\_file\_path = 'merged\_file.csv'

# Write the merged data to a CSV file

merged\_data.to\_csv(output\_file\_path, index=False)

print(f'Merged {len(csv\_files)} files into {output\_file\_path}')

This script attempts to read each CSV file, skips lines with errors, and prints a message for any file that causes a parsing error.

**3. Inspect and Clean Data Before Merging**

* Optionally, manually inspect and correct the problematic CSV files identified in the script output.

**4. Use Robust Data Cleaning Techniques**

* Consider using the csv module for more customized handling if the issue persists.

Give this a try and let me know if you encounter any further issues or need additional assistance! 😊

**You said**

Traceback (most recent call last): File "/Users/yaswitha/k8s/python/Python/Python/CSVProcessing/mergeCSVInFolder.py", line 18, in <module> data = pd.read\_csv(file\_path, error\_bad\_lines=False) ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ TypeError: read\_csv() got an unexpected keyword argument 'error\_bad\_lines'

**Copilot said**

It seems that the error\_bad\_lines argument has been deprecated in the recent versions of pandas. Let's use a different approach to handle inconsistent data rows. We can read the CSV files line by line and ignore those that cause issues.

Here is an updated script:

python

Copy

import os

import pandas as pd

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create an empty list to store the dataframes

dataframes = []

# Function to read CSV file while skipping bad lines

def read\_csv\_skip\_bad\_lines(file\_path):

data = []

with open(file\_path, 'r') as file:

for line in file:

try:

data.append(pd.read\_csv(pd.compat.StringIO(line)))

except pd.errors.ParserError:

print(f"Skipping bad line in {file\_path}: {line}")

return pd.concat(data, ignore\_index=True)

# Iterate over all CSV files and add their content to the list

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = read\_csv\_skip\_bad\_lines(file\_path)

dataframes.append(data)

# Concatenate all dataframes into a single dataframe

merged\_data = pd.concat(dataframes, ignore\_index=True)

# Specify the output file path

output\_file\_path = 'merged\_file.csv'

# Write the merged data to a CSV file

merged\_data.to\_csv(output\_file\_path, index=False)

print(f'Merged {len(csv\_files)} files into {output\_file\_path}')

Replace 'path\_to\_your\_folder' with the actual path of your folder containing the CSV files. This script reads all CSV files, skips the problematic lines, and merges the remaining data into a single CSV file.

Give this approach a try and let me know if it resolves the issue! 😊

**You said**

File "/Users/yaswitha/k8s/python/Python/Python/CSVProcessing/mergeCSVInFolder.py", line 19, in read\_csv\_skip\_bad\_lines data.append(pd.read\_csv(pd.compat.StringIO(line))) ^^^^^^^^^^^^^^^^^^ AttributeError: module 'pandas.compat' has no attribute 'StringIO'

**Copilot said**

It looks like there's an issue with using StringIO from pandas.compat. Let's use the io module instead. Here's an updated script:

python

Copy

import os

import pandas as pd

import io

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create an empty list to store the dataframes

dataframes = []

# Function to read CSV file while skipping bad lines

def read\_csv\_skip\_bad\_lines(file\_path):

data = []

with open(file\_path, 'r') as file:

for line in file:

try:

data.append(pd.read\_csv(io.StringIO(line)))

except pd.errors.ParserError:

print(f"Skipping bad line in {file\_path}: {line}")

return pd.concat(data, ignore\_index=True)

# Iterate over all CSV files and add their content to the list

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = read\_csv\_skip\_bad\_lines(file\_path)

dataframes.append(data)

# Concatenate all dataframes into a single dataframe

merged\_data = pd.concat(dataframes, ignore\_index=True)

# Specify the output file path

output\_file\_path = 'merged\_file.csv'

# Write the merged data to a CSV file

merged\_data.to\_csv(output\_file\_path, index=False)

print(f'Merged {len(csv\_files)} files into {output\_file\_path}')

Replace 'path\_to\_your\_folder' with the actual path of your folder containing the CSV files. This script reads all CSV files, skips the problematic lines, and merges the remaining data into a single CSV file.

Give this approach a try and let me know if it resolves the issue! 😊

**You said**

Python program to copy csv's in a folder to one excel file

**Copilot said**

Here's a Python script that will copy all CSV files in a specified folder into separate sheets in a single Excel file. You'll need the pandas and openpyxl libraries for this. Install them using pip if you haven't already:

bash

Copy

pip install pandas openpyxl

Here's the script:

python

Copy

import os

import pandas as pd

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create a Pandas Excel writer using openpyxl as the engine

output\_file\_path = 'merged\_excel\_file.xlsx'

writer = pd.ExcelWriter(output\_file\_path, engine='openpyxl')

# Iterate over all CSV files and add each as a separate sheet in the Excel file

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = pd.read\_csv(file\_path)

sheet\_name = os.path.splitext(file)[0]

data.to\_excel(writer, sheet\_name=sheet\_name, index=False)

# Save the Excel file

writer.save()

print(f'Copied {len(csv\_files)} CSV files into {output\_file\_path}')

Replace 'path\_to\_your\_folder' with the actual path of your folder containing the CSV files. This script reads all .csv files in the specified folder and writes each one as a separate sheet in an Excel file called merged\_excel\_file.xlsx.

Feel free to give this a try, and let me know if you encounter any issues or need further assistance! 😊

**You said**

File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/io/parsers/c\_parser\_wrapper.py", line 234, in read chunks = self.\_reader.read\_low\_memory(nrows) ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ File "parsers.pyx", line 838, in pandas.\_libs.parsers.TextReader.read\_low\_memory File "parsers.pyx", line 905, in pandas.\_libs.parsers.TextReader.\_read\_rows File "parsers.pyx", line 874, in pandas.\_libs.parsers.TextReader.\_tokenize\_rows File "parsers.pyx", line 891, in pandas.\_libs.parsers.TextReader.\_check\_tokenize\_status File "parsers.pyx", line 2061, in pandas.\_libs.parsers.raise\_parser\_error pandas.errors.ParserError: Error tokenizing data. C error: Expected 4 fields in line 14, saw 9

**Copilot said**

This error indicates that one of your CSV files contains a line that doesn't match the expected structure. This could be due to extra or missing commas, which cause pandas to misinterpret the number of fields.

To handle this, we can modify our approach to read the CSV files with more flexibility. We'll use the csv module to read the files line by line and handle potential issues, then use pandas to write the data to the Excel file.

Here's an updated script:

python

Copy

import os

import csv

import pandas as pd

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create a Pandas Excel writer using openpyxl as the engine

output\_file\_path = 'merged\_excel\_file.xlsx'

writer = pd.ExcelWriter(output\_file\_path, engine='openpyxl')

# Iterate over all CSV files and add each as a separate sheet in the Excel file

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = []

with open(file\_path, 'r') as f:

reader = csv.reader(f)

for row in reader:

if len(row) > 0: # Skip empty rows

data.append(row)

# Convert the list of rows into a DataFrame

df = pd.DataFrame(data[1:], columns=data[0]) # Assuming the first row is the header

sheet\_name = os.path.splitext(file)[0]

df.to\_excel(writer, sheet\_name=sheet\_name, index=False)

# Save the Excel file

writer.save()

print(f'Copied {len(csv\_files)} CSV files into {output\_file\_path}')

Replace 'path\_to\_your\_folder' with the actual path of your folder containing the CSV files. This script reads each CSV file line by line, handles potential inconsistencies, and writes each file as a separate sheet in an Excel file called merged\_excel\_file.xlsx.

Give this script a try and let me know if it resolves the issue! 😊

**You said**

File "/Users/yaswitha/k8s/python/Python/Python/Excel-Methods/copyMultiCSVSingleExcel.py", line 25, in <module> df = pd.DataFrame(data[1:], columns=data[0]) # Assuming the first row is the header ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/frame.py", line 851, in \_\_init\_\_ arrays, columns, index = nested\_data\_to\_arrays( ^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/internals/construction.py", line 520, in nested\_data\_to\_arrays arrays, columns = to\_arrays(data, columns, dtype=dtype) ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/internals/construction.py", line 845, in to\_arrays content, columns = \_finalize\_columns\_and\_data(arr, columns, dtype) ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/internals/construction.py", line 942, in \_finalize\_columns\_and\_data raise ValueError(err) from err ValueError: 4 columns passed, passed data had 9 columns

**Copilot said**

The error you're encountering happens because the number of columns in the CSV file is inconsistent, causing a mismatch when creating the DataFrame. This can be due to irregular data rows, extra or missing values, or misalignment.

To handle this, we can use a different approach by reading the CSV files without assuming the header is always correct and ensuring all data is uniformly formatted. Here's an updated script:

python

Copy

import os

import pandas as pd

import csv

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create a Pandas Excel writer using openpyxl as the engine

output\_file\_path = 'merged\_excel\_file.xlsx'

writer = pd.ExcelWriter(output\_file\_path, engine='openpyxl')

# Function to read CSV file while handling inconsistent columns

def read\_csv\_with\_consistent\_columns(file\_path):

with open(file\_path, 'r') as f:

reader = csv.reader(f)

data = list(reader)

# Find the maximum number of columns

max\_cols = max(len(row) for row in data)

# Ensure all rows have the same number of columns

for i in range(len(data)):

if len(data[i]) < max\_cols:

data[i] += [''] \* (max\_cols - len(data[i])) # Add empty strings to make columns consistent

# Convert the list of rows into a DataFrame

df = pd.DataFrame(data[1:], columns=data[0]) # Assuming the first row is the header

return df

# Iterate over all CSV files and add each as a separate sheet in the Excel file

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = read\_csv\_with\_consistent\_columns(file\_path)

sheet\_name = os.path.splitext(file)[0]

data.to\_excel(writer, sheet\_name=sheet\_name, index=False)

# Save the Excel file

writer.save()

print(f'Copied {len(csv\_files)} CSV files into {output\_file\_path}')

This script:

1. Reads each CSV file.
2. Finds the maximum number of columns in the data.
3. Ensures all rows have the same number of columns by adding empty strings to rows with fewer columns.
4. Writes each CSV as a separate sheet in an Excel file.

Replace 'path\_to\_your\_folder' with the actual path to your folder containing the CSV files and try running this script. Let me know if you encounter any further issues or need additional help! 😊

**You said**

on/Excel-Methods/copyMultiCSVSingleExcel.py Traceback (most recent call last): File "/Users/yaswitha/k8s/python/Python/Python/Excel-Methods/copyMultiCSVSingleExcel.py", line 41, in <module> writer.save() ^^^^^^^^^^^ AttributeError: 'OpenpyxlWriter' object has no attribute 'save'. Did you mean: '\_save'?

**Copilot said**

The error you're encountering indicates that the save method is no longer available in pandas' ExcelWriter object. Instead, we should use the close method to finalize and save the file.

Here's the corrected script:

python

Copy

import os

import pandas as pd

import csv

# Specify the folder containing the CSV files

folder\_path = 'path\_to\_your\_folder'

# List all CSV files in the folder

csv\_files = [file for file in os.listdir(folder\_path) if file.endswith('.csv')]

# Create a Pandas Excel writer using openpyxl as the engine

output\_file\_path = 'merged\_excel\_file.xlsx'

writer = pd.ExcelWriter(output\_file\_path, engine='openpyxl')

# Function to read CSV file while handling inconsistent columns

def read\_csv\_with\_consistent\_columns(file\_path):

with open(file\_path, 'r') as f:

reader = csv.reader(f)

data = list(reader)

# Find the maximum number of columns

max\_cols = max(len(row) for row in data)

# Ensure all rows have the same number of columns

for i in range(len(data)):

if len(data[i]) < max\_cols:

data[i] += [''] \* (max\_cols - len(data[i])) # Add empty strings to make columns consistent

# Convert the list of rows into a DataFrame

df = pd.DataFrame(data[1:], columns=data[0]) # Assuming the first row is the header

return df

# Iterate over all CSV files and add each as a separate sheet in the Excel file

for file in csv\_files:

file\_path = os.path.join(folder\_path, file)

data = read\_csv\_with\_consistent\_columns(file\_path)

sheet\_name = os.path.splitext(file)[0]

data.to\_excel(writer, sheet\_name=sheet\_name, index=False)

# Save and close the Excel file

writer.close()

print(f'Copied {len(csv\_files)} CSV files into {output\_file\_path}')

Replace 'path\_to\_your\_folder' with the actual path to your folder containing the CSV files and try running this script. This update should resolve the AttributeError and successfully save the Excel file. Let me know if you encounter any further issues or need additional help! 😊

**You said**

Write a program to read all Excel sheets into individual data frames and merge data frame based on condition of column value

**Copilot said**

Sure, I can help you with that! Here's a Python program that reads all sheets from an Excel file into individual data frames and then merges those data frames based on a condition of a column value.

First, make sure you have the pandas library installed:

bash

Copy

pip install pandas openpyxl

Here's the program:

python

Copy

import pandas as pd

# Specify the path to your Excel file

file\_path = 'path\_to\_your\_excel\_file.xlsx'

# Read all sheets into a dictionary of DataFrames

sheets\_dict = pd.read\_excel(file\_path, sheet\_name=None)

# List to store all data frames

dataframes = []

# Iterate over the sheets and store them into the list

for sheet\_name, df in sheets\_dict.items():

dataframes.append(df)

# Example condition: Merge data frames based on a specific column value

# Let's assume we want to merge on the 'ID' column and the condition is to match 'ID' values

merged\_df = pd.concat(dataframes, ignore\_index=True)

# Example: Filter the merged data frame based on a condition

# Let's assume we only want rows where 'ID' is greater than a specific value (e.g., 100)

filtered\_df = merged\_df[merged\_df['ID'] > 100]

# Save the filtered merged data frame to a new Excel file

output\_file\_path = 'filtered\_merged\_file.xlsx'

filtered\_df.to\_excel(output\_file\_path, index=False)

print(f'Merged and filtered data saved to {output\_file\_path}')

In this script:

1. The pd.read\_excel function is used to read all sheets from the Excel file into a dictionary of DataFrames.
2. We iterate over the sheets and store each DataFrame in a list.
3. We concatenate all the DataFrames into a single DataFrame using pd.concat.
4. We filter the merged DataFrame based on a condition (e.g., 'ID' column values greater than 100).
5. The filtered merged DataFrame is saved to a new Excel file.

Replace 'path\_to\_your\_excel\_file.xlsx' with the actual path to your Excel file, and modify the merge and filter conditions as needed.

Give this a try and let me know if you need any further assistance! 😊

**You said**

The above exception was the direct cause of the following exception: Traceback (most recent call last): File "/Users/yaswitha/k8s/python/Python/Python/Excel-Methods/readAllShhetsAndMergeFilter.py", line 22, in <module> filtered\_df = merged\_df[merged\_df['Statement'] is 'Statement of Funds'] ~~~~~~~~~^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/frame.py", line 4102, in \_\_getitem\_\_ indexer = self.columns.get\_loc(key) ^^^^^^^^^^^^^^^^^^^^^^^^^ File "/Users/yaswitha/k8s/python/Python/.venv/lib/python3.11/site-packages/pandas/core/indexes/base.py", line 3812, in get\_loc raise KeyError(key) from err KeyError: False

**Copilot said**

The error you're encountering is because of the way the condition is specified in the code. Instead of using is, use == for comparisons in pandas. The correct way to filter the DataFrame should use == for the condition.

Here's the updated script:

python

Copy

import pandas as pd

# Specify the path to your Excel file

file\_path = 'path\_to\_your\_excel\_file.xlsx'

# Read all sheets into a dictionary of DataFrames

sheets\_dict = pd.read\_excel(file\_path, sheet\_name=None)

# List to store all data frames

dataframes = []

# Iterate over the sheets and store them into the list

for sheet\_name, df in sheets\_dict.items():

dataframes.append(df)

# Example condition: Merge data frames based on a specific column value

# Let's assume we want to merge on the 'Statement' column and the condition is to match 'Statement of Funds'

merged\_df = pd.concat(dataframes, ignore\_index=True)

# Example: Filter the merged data frame based on a condition

# Let's assume we only want rows where 'Statement' is equal to 'Statement of Funds'

filtered\_df = merged\_df[merged\_df['Statement'] == 'Statement of Funds']

# Save the filtered merged data frame to a new Excel file

output\_file\_path = 'filtered\_merged\_file.xlsx'

filtered\_df.to\_excel(output\_file\_path, index=False)

print(f'Merged and filtered data saved to {output\_file\_path}')

Replace 'path\_to\_your\_excel\_file.xlsx' with the actual path to your Excel file, and make sure the column name 'Statement' exists in your DataFrames.

This script should merge all the sheets, filter based on the condition correctly, and save the filtered result into a new Excel file. Give this a try and let me know if it resolves the issue! 😊

**You said**

Excel Function to have multiple if condition on specific column value and set column value

**Copilot said**

To handle multiple conditions and set a column value based on those conditions, you can use the IFS function in Excel. The IFS function allows you to test multiple conditions and returns a value corresponding to the first TRUE condition.

Here’s how you can use the IFS function:

**Example Scenario**

Let's say you have a column named Score and you want to set a column Grade based on the value of Score.

| Score | Grade |
| --- | --- |
| 85 |  |
| 73 |  |
| 90 |  |
| 66 |  |
| 55 |  |

**Conditions:**

* If Score is greater than or equal to 90, then Grade should be "A".
* If Score is between 80 and 89, then Grade should be "B".
* If Score is between 70 and 79, then Grade should be "C".
* If Score is between 60 and 69, then Grade should be "D".
* If Score is less than 60, then Grade should be "F".

**Formula:**

Here’s the formula you can use in the Grade column:

excel

Copy

=IFS(

A2 >= 90, "A",

A2 >= 80, "B",

A2 >= 70, "C",

A2 >= 60, "D",

A2 < 60, "F"

)

Place this formula in cell B2 (assuming your scores start in cell A2) and drag it down to apply it to all rows.

**Explanation:**

* IFS checks each condition in the order provided.
* It returns the value associated with the first condition that is TRUE.
* If A2 is greater than or equal to 90, it returns "A".
* If not, it checks the next condition: A2 >= 80, and so on.

You can adjust the conditions and values to suit your specific needs. This function is very flexible for setting values based on multiple conditions. Let me know if you need further assistance! 😊

**You said**

Share the same for chacking partial string value in specific column and set column value

**Copilot said**

Certainly! To check for partial string values in a specific column and set another column's value based on that, you can use a combination of the IF, SEARCH, and ISNUMBER functions in Excel.

**Example Scenario**

Let's say you have a column named Description and you want to set a column Category based on partial string matches in the Description column.

| Description | Category |
| --- | --- |
| Apples and Bananas |  |
| Fresh Oranges |  |
| Bananas and Grapes |  |
| Sweet Apples |  |
| Organic Strawberries |  |

**Conditions:**

* If Description contains "Apples", then Category should be "Fruit".
* If Description contains "Bananas", then Category should be "Fruit".
* If Description contains "Oranges", then Category should be "Citrus".
* If Description contains "Strawberries", then Category should be "Berries".
* If none of the above, then Category should be "Other".

**Formula:**

Here’s the formula you can use in the Category column:

excel

Copy

=IF(ISNUMBER(SEARCH("Apples", A2)), "Fruit",

IF(ISNUMBER(SEARCH("Bananas", A2)), "Fruit",

IF(ISNUMBER(SEARCH("Oranges", A2)), "Citrus",

IF(ISNUMBER(SEARCH("Strawberries", A2)), "Berries",

"Other"))))

Place this formula in cell B2 (assuming your descriptions start in cell A2) and drag it down to apply it to all rows.

**Explanation:**

* SEARCH("Apples", A2) looks for the substring "Apples" in cell A2. If found, it returns a number (the position of the match). If not found, it returns an error.
* ISNUMBER(SEARCH("Apples", A2)) checks if the result of SEARCH is a number (indicating a match was found).
* The IF function uses this result to determine the Category value.
* This process is repeated for other substrings ("Bananas", "Oranges", "Strawberries").
* If none of the conditions are met, "Other" is returned.

You can adjust the conditions and values to suit your specific needs. This method is very flexible for setting values based on partial string matches. Let me know if you need further assistance! 😊

Here's what the Category column would look like after applying the formula:

| Description | Category |
| --- | --- |
| Apples and Bananas | Fruit |
| Fresh Oranges | Citrus |
| Bananas and Grapes | Fruit |
| Sweet Apples | Fruit |
| Organic Strawberries | Berries |

**You said**

Explain how to work with IBKR API's to get custom reports and does IBKR charge for API Acess

**Copilot said**

Interactive Brokers (IBKR) offers a variety of APIs that allow users to access custom reports and perform various operations1. Here’s a brief overview of how you can work with IBKR APIs to get custom reports and the associated costs:

**Working with IBKR APIs for Custom Reports**

1. **API Access**: IBKR provides several APIs, including the **Trader Workstation (TWS) API**, **Web API**, **Excel API**, and **FIX protocol**1. These APIs allow you to access and manipulate data, execute trades, and generate custom reports1.
2. **Custom Reports**: You can create custom reports using the **Flex Queries** feature2. Flex Queries allow you to specify exactly which fields you want to view, the time period for the report, and the output format (e.g., TEXT or XML)2. This is useful for generating detailed and customized reports based on your specific needs2.
3. **Steps to Create Custom Reports**:
   * Navigate to the **Performance & Reports** section in the IBKR Client Portal3.
   * Click on **Flex Queries**2.
   * Create a new Flex Query by specifying the fields, time period, and output format2.
   * Save the Flex Query and configure the delivery settings2.

**Costs for API Access**

* **Market Data Subscriptions**: To receive market data through the API, most securities require a **Level 1, top of book, market data subscription**4. This is required for all users retrieving market data through the API4. The minimum equity balance requirement is **$500 USD** (or non-USD equivalent) in your account4.
* **No Charge for API Usage**: There is no charge for using the APIs themselves5. However, the market data subscriptions and any other data services you require will incur costs4.
* **Forex and Cryptocurrencies**: These do not require any additional market data subscriptions to receive market data4.

For more detailed information, you can refer to the IBKR API documentation and the IBKR Campus.

Does this help clarify things for you?

1www.interactivebrokers.com2www.ibkrguides.com3www.ibkrguides.com4www.interactivebrokers.com5www.reddit.com

**You said**

in IBKR i hav deposited 142000, and started trading now the value is 175000, but Unrealized profit shows 20000 only where it shoudl show 33000 approxilatedly. why it is so

**Copilot said**

It sounds like there might be a discrepancy in how the unrealized profit is being calculated. The formula for calculating unrealized profit is:

\text{Unrealized P&L} = (\text{Current Market Price} - \text{Average Cost per Share}) \times \text{Total Number of Shares}

Here are a few things to check:

1. **Average Cost per Share**: Ensure that the average cost per share is being calculated correctly. This includes all commissions and fees associated with purchasing the shares.
2. **Current Market Price**: Verify that the current market price is accurate and up-to-date.
3. **Total Number of Shares**: Confirm that the total number of shares is correct.

It's possible that there might be a rounding issue or an incorrect calculation somewhere. You can also reach out to IBKR's customer support for a detailed review of your account and transactions to ensure everything is being calculated correctly.

Would you like more detailed steps on how to check these values in your IBKR account?

**You said**

Yes

**Copilot said**

Let's go through the steps to check the values in your IBKR account to understand why the unrealized profit might not match your expectations.

**1. Verify Average Cost per Share:**

* **Navigate to the Portfolio Tab**: In the IBKR platform, go to the Portfolio tab to see the list of your holdings.
* **Check Average Cost**: Look for the Average Price column for each holding. Ensure this value reflects the correct average cost per share, including all transaction fees and commissions.

**2. Current Market Price:**

* **Real-Time Data**: Ensure you have access to real-time market data. You can check this in the Market Data section or directly in the Portfolio tab.
* **Check Prices**: Verify the Market Price column for each holding reflects the latest market prices.

**3. Total Number of Shares:**

* **Shares Held**: Check the Quantity or Shares column to confirm the total number of shares you hold for each stock. Ensure this matches your records.

**4. Unrealized Profit Calculation:**

To calculate unrealized profit manually, use the formula:

Unrealized Profit=(Current Market Price−Average Cost per Share)×Total Number of Shares

Compare this manual calculation to the unrealized profit shown in your account to identify any discrepancies.

**5. Reports and Statements:**

* **Flex Queries**: Use the Flex Queries feature to create a custom report that includes average cost, market price, and unrealized profit for a detailed review.
* **Activity Statements**: Download the detailed activity statements to cross-check all transactions, including buys, sells, dividends, and fees. This will help you verify if any transaction has been missed or incorrectly recorded.

**6. Contact Support:**

If you still find discrepancies, consider reaching out to IBKR's customer support:

* **Live Chat**: Use the live chat feature available on the IBKR website.
* **Phone Support**: Call their support number for direct assistance.
* **Support Tickets**: Raise a support ticket with detailed information about the discrepancy.

**Additional Considerations:**

* **Dividends and Fees**: Ensure that any dividends received or fees paid are accounted for, as these can affect your overall profit.
* **Currency Conversion**: If you're holding positions in multiple currencies, check if the conversion rates are being correctly applied to your holdings.

By following these steps, you should be able to identify the source of the discrepancy in your unrealized profit calculation. Let me know if you need further assistance with any of these steps! 😊

**You said**

I have invested 45010 in Year 2020,61000 in Year 2021,33000 in Year 2022 , 5000 in Year 2024 , Now the Final Amount is 175000. how to caluculate the intrest gain

**Copilot said**

To calculate the interest gain on your investments, you can use the **Internal Rate of Return (IRR)** or the **Compound Annual Growth Rate (CAGR)**. Both methods take into account the timings of your cash flows and provide a way to measure the growth rate of your investments.

**1. Internal Rate of Return (IRR):**

IRR is a common measure used to calculate the profitability of investments. It considers the timing of each cash flow (investment) and the final value.

Here’s how to calculate IRR using Excel:

1. **List your investments and the final value**:
   * Year 2020: -45010
   * Year 2021: -61000
   * Year 2022: -33000
   * Year 2024: -5000
   * Final Value (Year 2024): 175000
2. **Enter the values in Excel**:
   * A1: -45010
   * A2: -61000
   * A3: -33000
   * A4: 0 (Since no investment in 2023)
   * A5: -5000
   * A6: 175000
3. **Use the IRR function**:
   * In cell B1, type =IRR(A1:A6)
   * Press Enter

This will give you the IRR, which represents the annualized return on your investments considering the timing of each cash flow.

**2. Compound Annual Growth Rate (CAGR):**

CAGR is a measure of the mean annual growth rate of an investment over a specified period longer than one year.

The formula for CAGR is:

CAGR=(Ending ValueBeginning Value)1n−1

Where:

* **Ending Value**: Final value of the investment (175000)
* **Beginning Value**: Initial investment (sum of all investments)
* **n**: Number of years

1. **Calculate the total investment**:

Total Investment=45010+61000+33000+5000=144010

1. **Calculate the number of years**: From 2020 to 2024, the number of years is 4.
2. **Apply the CAGR formula**:

CAGR=(175000144010)14−1

1. **Calculate CAGR**:

CAGR=(1.21513)14−1

CAGR≈0.05086 or 5.086%

So, the Compound Annual Growth Rate (CAGR) for your investment is approximately **5.086%**.

Feel free to ask if you need any more details or assistance! 😊

**You said**

Is it possible to apply GAGR formula in Excel

**Copilot said**

Yes, you can apply the Compound Annual Growth Rate (CAGR) formula in Excel! Here are the steps:

**Using the CAGR Formula**

1. **Formula Syntax**:

CAGR=(Ending ValueBeginning Value)1n−1

Where:

* **Ending Value**: The value at the end of the period.
* **Beginning Value**: The value at the start of the period.
* **n**: The number of years.

1. **Steps in Excel**:
   * Assume the following:
     + **Beginning Value** in cell A2: 144010
     + **Ending Value** in cell B2: 175000
     + **Number of Years** in cell C2: 4
2. **Apply the Formula**:
   * In cell D2, enter the following formula:

excel

Copy

=((B2/A2)^(1/C2))-1

* + Press Enter.

1. **Format the Result as a Percentage**:
   * Select cell D2.
   * Go to the Home tab.
   * Click on the Percentage button in the Number group to format the result as a percentage.

**Example:**

| A | B | C | D |
| --- | --- | --- | --- |
| Beginning Value | Ending Value | Years | CAGR |
| 144010 | 175000 | 4 | **Formula** = =((B2/A2)^(1/C2))-1 |

The result in cell D2 will show the CAGR as a percentage.

This method allows you to easily calculate the CAGR for any set of beginning and ending values over a specified number of years in Excel. Let me know if you need any further assistance! 😊

**You said**

Considering a scenario . where Mapping Elements between 2 systems are designed and drafeted in Excel with Mandatory /option against columns names and XML mesage as protocol to communicate between systems . how to validate the Element Names and Required Elements are part of the Message to validate the message programatically .

**Copilot said**

To validate that the element names and required elements specified in an Excel sheet are present in an XML message programmatically, you can use Python with libraries such as pandas for handling the Excel sheet and xml.etree.ElementTree for parsing and validating the XML message. Here’s how you can achieve this:

**Steps to Validate Element Names and Required Elements**

1. **Read the Excel Sheet**:
   * Load the Excel file using pandas and extract the relevant columns containing element names and their mandatory/optional status.
2. **Parse the XML Message**:
   * Use xml.etree.ElementTree to parse the XML message.
3. **Validate Elements**:
   * Check if all mandatory elements are present in the XML message.
   * Optionally, check for the presence of optional elements.

**Example Python Code**

python

Copy

import pandas as pd

import xml.etree.ElementTree as ET

# Load the Excel file

excel\_file\_path = 'path\_to\_your\_excel\_file.xlsx'

df = pd.read\_excel(excel\_file\_path)

# Extract relevant columns

element\_names = df['Element Name']

mandatory\_status = df['Mandatory/Optional']

# Load the XML message

xml\_file\_path = 'path\_to\_your\_xml\_file.xml'

tree = ET.parse(xml\_file\_path)

root = tree.getroot()

# Function to check if an element is present in the XML

def element\_present(element\_name, root):

return root.find('.//' + element\_name) is not None

# Validate elements

missing\_mandatory\_elements = []

for name, status in zip(element\_names, mandatory\_status):

if status.lower() == 'mandatory' and not element\_present(name, root):

missing\_mandatory\_elements.append(name)

# Print results

if missing\_mandatory\_elements:

print(f"Missing mandatory elements: {', '.join(missing\_mandatory\_elements)}")

else:

print("All mandatory elements are present in the XML message.")

**Explanation**

1. **Read the Excel Sheet**:
   * Use pd.read\_excel(excel\_file\_path) to load the Excel file.
   * Extract the columns containing the element names and their mandatory/optional status.
2. **Parse the XML Message**:
   * Use ET.parse(xml\_file\_path) to load and parse the XML message.
   * Get the root element using tree.getroot().
3. **Validate Elements**:
   * Define a function element\_present to check if an element is present in the XML message.
   * Iterate over the element names and their mandatory/optional status.
   * For each mandatory element, check if it is present in the XML message. If not, add it to the list of missing mandatory elements.
   * Print the results.

**Note**

* **Adjust the Column Names**: Ensure the column names in your Excel sheet ('Element Name' and 'Mandatory/Optional') match the ones used in the code.
* **XPath Queries**: The element\_present function uses an XPath query (.//) to search for elements in the XML message. You can adjust this based on your XML structure.

Feel free to modify and expand the code based on your specific requirements. Let me know if you need any further assistance! 😊

**You said**

Compare 2 XML and find the Elements missing against each other

**Copilot said**

Comparing two XML files to find missing elements between them can be done programmatically. Here, I'll provide you with a Python script using the xml.etree.ElementTree library to compare two XML files and list the missing elements in each.

**Steps to Compare XML Files**

1. **Parse both XML files**.
2. **Extract the elements** from each XML file.
3. **Find missing elements** by comparing the sets of elements from both XML files.

**Example Python Code**

python

Copy

import xml.etree.ElementTree as ET

# Function to extract all element tags from an XML file

def extract\_elements(file\_path):

tree = ET.parse(file\_path)

root = tree.getroot()

elements = set()

def recurse\_tree(node):

elements.add(node.tag)

for child in node:

recurse\_tree(child)

recurse\_tree(root)

return elements

# Paths to your XML files

file\_path\_1 = 'path\_to\_first\_xml\_file.xml'

file\_path\_2 = 'path\_to\_second\_xml\_file.xml'

# Extract elements from both XML files

elements\_1 = extract\_elements(file\_path\_1)

elements\_2 = extract\_elements(file\_path\_2)

# Find missing elements

missing\_in\_1 = elements\_2 - elements\_1

missing\_in\_2 = elements\_1 - elements\_2

# Print results

print(f"Elements missing in the first XML file: {missing\_in\_1}")

print(f"Elements missing in the second XML file: {missing\_in\_2}")

**Explanation**

1. **Extract Elements**:
   * Define a function extract\_elements to parse the XML file and extract all element tags.
   * Use recursion to traverse the XML tree and add each element tag to a set.
2. **Compare Elements**:
   * Extract elements from both XML files using the extract\_elements function.
   * Use set operations to find elements that are present in one file but missing in the other.
3. **Print Results**:
   * Print the missing elements in each XML file.

**Note**

* **Adjust File Paths**: Replace 'path\_to\_first\_xml\_file.xml' and 'path\_to\_second\_xml\_file.xml' with the actual paths to your XML files.
* **Element Attributes and Values**: This script compares element tags. If you need to compare attributes or values, the script would need additional modifications.

By running this script, you will be able to identify which elements are missing from each XML file, helping you to validate the completeness of your XML messages.

Give this a try and let me know if you need any further assistance! 😊

**You said**

compare 2 Json and find missing elements

**Copilot said**

To compare two JSON files and find the missing elements, you can use Python with the json library. This script will help you identify which keys are present in one JSON object but missing in the other.

**Example Python Code**

python

Copy

import json

# Load JSON data from files

def load\_json(file\_path):

with open(file\_path, 'r') as file:

return json.load(file)

# Function to compare two JSON objects and find missing elements

def compare\_json(json1, json2, path=''):

missing\_in\_json1 = {}

missing\_in\_json2 = {}

for key in json1:

if key not in json2:

missing\_in\_json2[path + key] = json1[key]

elif isinstance(json1[key], dict) and isinstance(json2[key], dict):

missing\_1, missing\_2 = compare\_json(json1[key], json2[key], path + key + '.')

missing\_in\_json1.update(missing\_1)

missing\_in\_json2.update(missing\_2)

for key in json2:

if key not in json1:

missing\_in\_json1[path + key] = json2[key]

return missing\_in\_json1, missing\_in\_json2

# Paths to your JSON files

file\_path\_1 = 'path\_to\_first\_json\_file.json'

file\_path\_2 = 'path\_to\_second\_json\_file.json'

# Load JSON data

json\_data\_1 = load\_json(file\_path\_1)

json\_data\_2 = load\_json(file\_path\_2)

# Compare JSON data

missing\_in\_1, missing\_in\_2 = compare\_json(json\_data\_1, json\_data\_2)

# Print results

print(f"Elements missing in the first JSON file: {missing\_in\_1}")

print(f"Elements missing in the second JSON file: {missing\_in\_2}")

**Explanation**

1. **Load JSON Data**:
   * Use the load\_json function to read JSON data from the specified file paths.
2. **Compare JSON Objects**:
   * Define a function compare\_json to recursively compare two JSON objects and find missing elements.
   * The function returns two dictionaries: one for elements missing in the first JSON and one for elements missing in the second JSON.
3. **Print Results**:
   * Print the missing elements for each JSON file.

**Note**

* **Adjust File Paths**: Replace 'path\_to\_first\_json\_file.json' and 'path\_to\_second\_json\_file.json' with the actual paths to your JSON files.
* **Nested JSON Objects**: The script handles nested JSON objects by recursively comparing each level.

This script should help you identify which elements are missing in each JSON file, making it easier to validate the completeness and consistency of your data. Let me know if you need any further assistance! 😊

**You said**

How to change git repo private to public

**Copilot said**

Changing a Git repository from private to public on GitHub is straightforward1. Here’s how you can do it:

1. **Navigate to Your Repository**: Go to the GitHub repository you want to change1.
2. **Access Settings**: Click on the **Settings** tab, located at the top right of the repository page1.
3. **Danger Zone**: Scroll down to the **Danger Zone** section at the bottom of the settings page1.
4. **Change Repository Visibility**: Click on the **Change repository visibility** button1.
5. **Make Public**: Select **Change to public**1. A confirmation pop-up will appear1.
6. **Confirm**: Click on the **I want to make this repository public** button1.
7. **Final Confirmation**: Click on the **I have read and understand these effects** button1.
8. **Complete**: Click **Make this repository public**1.

Once you complete these steps, your repository will be publicly accessible, and anyone on GitHub will be able to view its contents1.

Would you like more detailed instructions or help with anything else?

1www.storylane.io

**You said**

Considering the scenario, Team does changes and check-in to bit bucket and for review need to run PDM scan tool using ANT script , suggest option to automate the automate the process of getting changes from bitbucket and pass the changed file list as argument for PDM tool scan and show the Report

**Copilot said**

To automate the process of getting changes from Bitbucket and passing the changed file list as an argument for the PDM tool scan, you can use Bitbucket Pipelines along with an ANT script1. Here’s a step-by-step guide:

**Step 1: Set Up Bitbucket Pipelines**

1. **Create a**bitbucket-pipelines.yml**file** in the root of your repository1.
2. **Define the pipeline** to trigger on commits to a specific branch (e.g., main or develop)1.

**Step 2: Define the Pipeline Configuration**

yaml

Copy

pipelines:

branches:

main:

- step:

script:

- echo "Running PDM scan tool..."

- ./run\_pdm\_scan.sh

**Step 3: Create the run\_pdm\_scan.sh Script**

This script will fetch the latest changes from Bitbucket, identify the changed files, and pass them to the PDM scan tool.

bash

Copy

#!/bin/bash

# Fetch the latest changes from Bitbucket

git fetch origin main

# Get the list of changed files

changed\_files=$(git diff --name-only HEAD~1 HEAD)

# Run the PDM scan tool with the changed files as arguments

/path/to/pdm\_scan\_tool --files "$changed\_files"

**Step 4: ANT Script for PDM Scan Tool**

If you need to use an ANT script to run the PDM scan tool, you can integrate it into the pipeline script.

bash

Copy

#!/bin/bash

# Fetch the latest changes from Bitbucket

git fetch origin main

# Get the list of changed files

changed\_files=$(git diff --name-only HEAD~1 HEAD)

# Run the ANT script with the changed files as arguments

ant -Dfiles="$changed\_files" -f path/to/your\_build.xml runPDMScan

**Step 5: Configure the ANT Build File (your\_build.xml)**

xml

Copy

<project name="PDMScan" default="runPDMScan">

<target name="runPDMScan">

<exec executable="/path/to/pdm\_scan\_tool">

<arg value="--files"/>

<arg value="${files}"/>

</exec>

</target>

</project>

**Explanation**

* **Bitbucket Pipelines**: Configures a CI/CD pipeline to trigger on commits to the main branch1.
* **Shell Script**: Fetches the latest changes and identifies the changed files2.
* **ANT Script**: Runs the PDM scan tool with the changed files as arguments2.

This setup automates the process of getting changes from Bitbucket and running the PDM scan tool, ensuring that only the modified files are scanned.

Would you like more details on any specific part of this setup?

1expertbeacon.com2dev.to

**You said**

Share the same scripting for windows machine

**Copilot said**

Sure! Let's adapt the script for a Windows environment. Here is a step-by-step guide to automate the process on a Windows machine:

**Step 1: Set Up Bitbucket Pipelines**

Create a bitbucket-pipelines.yml file in the root of your repository.

**Step 2: Define the Pipeline Configuration**

yaml

Copy

pipelines:

branches:

main:

- step:

script:

- echo "Running PDM scan tool..."

- powershell.exe -ExecutionPolicy Bypass -File .\run\_pdm\_scan.ps1

**Step 3: Create the run\_pdm\_scan.ps1 PowerShell Script**

This script will fetch the latest changes from Bitbucket, identify the changed files, and pass them to the PDM scan tool.

powershell

Copy

# Fetch the latest changes from Bitbucket

git fetch origin main

# Get the list of changed files

$changed\_files = git diff --name-only HEAD~1 HEAD

# Run the PDM scan tool with the changed files as arguments

& "C:\path\to\pdm\_scan\_tool.exe" --files $changed\_files

**Step 4: ANT Script for PDM Scan Tool**

If you need to use an ANT script to run the PDM scan tool, you can integrate it into the PowerShell script.

powershell

Copy

# Fetch the latest changes from Bitbucket

git fetch origin main

# Get the list of changed files

$changed\_files = git diff --name-only HEAD~1 HEAD

# Run the ANT script with the changed files as arguments

& ant -Dfiles="$changed\_files" -f "C:\path\to\your\_build.xml" runPDMScan

**Step 5: Configure the ANT Build File (your\_build.xml)**

xml

Copy

<project name="PDMScan" default="runPDMScan">

<target name="runPDMScan">

<exec executable="C:\path\to\pdm\_scan\_tool.exe">

<arg value="--files"/>

<arg value="${files}"/>

</exec>

</target>

</project>

**Explanation**

* **Bitbucket Pipelines**: Configures a CI/CD pipeline to trigger on commits to the main branch.
* **PowerShell Script**: Fetches the latest changes and identifies the changed files.
* **ANT Script**: Runs the PDM scan tool with the changed files as arguments.

**Note**

* **Adjust File Paths**: Replace C:\path\to\... with the actual paths on your Windows machine.
* **ANT Installation**: Ensure ANT is installed and accessible in your system PATH.

This setup will help you automate the process of getting changes from Bitbucket, running the PDM scan tool, and generating the report on a Windows machine.

Give this setup a try and let me know if you need any further assistance! 😊

**You said**

MOdify the script considering Multiple Branched and pass the Branch Name as argument to get changes files and continue the process

**Copilot said**

Certainly! Here's how to modify the script to handle multiple branches and pass the branch name as an argument. This way, the process can be automated for different branches as needed.

**Step 1: Update Bitbucket Pipelines Configuration**

Define a pipeline that can accept branch names as an argument and trigger the process.

yaml

Copy

pipelines:

branches:

'\*\*': # This pattern will match all branches

- step:

script:

- echo "Running PDM scan tool for branch ${BITBUCKET\_BRANCH}..."

- powershell.exe -ExecutionPolicy Bypass -File .\run\_pdm\_scan.ps1 -branch ${BITBUCKET\_BRANCH}

**Step 2: Modify the PowerShell Script (run\_pdm\_scan.ps1)**

The script will now accept the branch name as a parameter and process the changes accordingly.

powershell

Copy

param(

[string]$branch

)

# Navigate to the repository directory

cd "C:\path\to\your\repo"

# Fetch the latest changes for the specified branch

git fetch origin $branch

# Checkout the specified branch

git checkout $branch

# Get the list of changed files

$changed\_files = git diff --name-only HEAD~1 HEAD

# Run the PDM scan tool with the changed files as arguments

& "C:\path\to\pdm\_scan\_tool.exe" --files $changed\_files

**Step 3: Update the ANT Script (if needed)**

If you need to use an ANT script to run the PDM scan tool, ensure that the PowerShell script passes the correct arguments to the ANT build.

powershell

Copy

param(

[string]$branch

)

# Navigate to the repository directory

cd "C:\path\to\your\repo"

# Fetch the latest changes for the specified branch

git fetch origin $branch

# Checkout the specified branch

git checkout $branch

# Get the list of changed files

$changed\_files = git diff --name-only HEAD~1 HEAD

# Run the ANT script with the changed files as arguments

& ant -Dfiles="$changed\_files" -f "C:\path\to\your\_build.xml" runPDMScan

**Explanation**

* **Bitbucket Pipelines**: Configures a pipeline to run for all branches using the \*\* pattern.
* **PowerShell Script**: Accepts the branch name as a parameter, fetches the latest changes for the specified branch, checks out the branch, and identifies the changed files.
* **ANT Script**: Runs the PDM scan tool with the changed files as arguments.

**Note**

* **Adjust File Paths**: Replace C:\path\to\... with the actual paths on your Windows machine.
* **ANT Installation**: Ensure ANT is installed and accessible in your system PATH.

This setup will help you automate the process of getting changes from Bitbucket for multiple branches, running the PDM scan tool, and generating the report.

Feel free to give this a try and let me know if you need any further assistance! 😊

**You said**

Share the same using Batch file instead of bitbucket pipeline

**Copilot said**

Certainly! You can achieve the same automation using a batch file on a Windows machine. Here's how you can set it up:

**Step 1: Create a Batch File (run\_pdm\_scan.bat)**

This batch file will fetch the latest changes from the specified branch, identify the changed files, and run the PDM scan tool.

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Checkout the specified branch

git checkout %branch%

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation**

1. **Batch File Setup**: The batch file uses environment variables and delayed expansion to handle the list of changed files.
2. **Fetch Changes**: git fetch origin %branch% fetches the latest changes for the specified branch.
3. **Checkout Branch**: git checkout %branch% checks out the specified branch.
4. **Get Changed Files**: The for loop iterates over the list of changed files and builds a string of file names.
5. **Run PDM Scan Tool**: The PDM scan tool is executed with the list of changed files as arguments.
6. **ANT Script (Optional)**: The ANT script can be run if needed.

**Step 2: Run the Batch File**

To run the batch file, open a command prompt and execute the script with the branch name as an argument:

batch

Copy

run\_pdm\_scan.bat <branch\_name>

Replace <branch\_name> with the name of the branch you want to scan.

**Note**

* **Adjust File Paths**: Replace C:\path\to\... with the actual paths on your Windows machine.
* **ANT Installation**: Ensure ANT is installed and accessible in your system PATH if you are using the ANT script.

This setup will help you automate the process of getting changes from Bitbucket for multiple branches, running the PDM scan tool, and generating the report.

Give this a try and let me know if you need any further assistance! 😊

**You said**

If Local branch has uncommitted changes how to refresh with remote changes fron BitBucket to avoid any interruption in batch files

**Copilot said**

To ensure a smooth update of your local branch with remote changes from Bitbucket, even when there are uncommitted changes, you can follow these steps. The idea is to stash the uncommitted changes, update your branch, and then apply the stashed changes.

**Steps in a Batch File**

Here’s a batch script to automate this process:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Stash uncommitted changes

git stash push -m "Temporary stash before updating with remote changes"

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Checkout the specified branch

git checkout %branch%

REM Pull the latest changes from the remote branch

git pull origin %branch%

REM Apply the stashed changes

git stash pop

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation**

1. **Batch File Setup**: The batch file uses environment variables and delayed expansion to handle the list of changed files.
2. **Stash Uncommitted Changes**: git stash push stashes any uncommitted changes with a message.
3. **Fetch Changes**: git fetch origin %branch% fetches the latest changes for the specified branch.
4. **Checkout Branch**: git checkout %branch% checks out the specified branch.
5. **Pull Latest Changes**: git pull origin %branch% pulls the latest changes from the remote branch.
6. **Apply Stashed Changes**: git stash pop reapplies the stashed changes.
7. **Get Changed Files**: The for loop iterates over the list of changed files and builds a string of file names.
8. **Run PDM Scan Tool**: The PDM scan tool is executed with the list of changed files as arguments.
9. **ANT Script (Optional)**: The ANT script can be run if needed.

**Note**

* **Adjust File Paths**: Replace C:\path\to\... with the actual paths on your Windows machine.
* **ANT Installation**: Ensure ANT is installed and accessible in your system PATH if you are using the ANT script.

This setup will help you avoid interruptions caused by uncommitted changes, ensuring a smooth process of updating with remote changes and running the PDM scan tool.

Give this a try and let me know if you need any further assistance! 😊

**You said**

Throwing error - fatal: 'origin' does not appear to be a git repository

**Copilot said**

The error fatal: 'origin' does not appear to be a git repository typically occurs when the local repository is not linked to a remote repository. Let's troubleshoot and resolve this issue.

**Steps to Resolve the Issue**

1. **Check Current Directory**: Ensure you're in the correct directory where your Git repository is located.

batch

Copy

cd "C:\path\to\your\repo"

1. **Check Git Remote Configuration**: Verify the remote repository configuration using the following command:

batch

Copy

git remote -v

If you don't see any output or if origin is not listed, it means the remote repository is not configured.

1. **Add Remote Repository**: If the remote repository is not configured, you can add it using the following command:

batch

Copy

git remote add origin https://<your-bitbucket-repo-url>.git

Replace <your-bitbucket-repo-url> with the URL of your Bitbucket repository.

1. **Fetch Remote Changes**: Once the remote repository is configured, fetch the latest changes:

batch

Copy

git fetch origin

1. **Update Batch Script**: Ensure your batch script contains the correct commands to handle the repository updates:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Check if the remote 'origin' is configured

git remote -v

if %ERRORLEVEL% NEQ 0 (

echo "Adding remote origin..."

git remote add origin https://<your-bitbucket-repo-url>.git

)

REM Stash uncommitted changes

git stash push -m "Temporary stash before updating with remote changes"

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Checkout the specified branch

git checkout %branch%

REM Pull the latest changes from the remote branch

git pull origin %branch%

REM Apply the stashed changes

git stash pop

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation**

* **Check Git Remote**: Ensures the remote repository is configured.
* **Add Remote if Missing**: Adds the remote repository if it is not configured.
* **Stash Changes**: Stashes any uncommitted changes.
* **Fetch and Pull Changes**: Fetches and pulls the latest changes from the remote branch.
* **Apply Stashed Changes**: Reapplies the stashed changes.
* **List Changed Files**: Identifies the changed files.
* **Run PDM Scan Tool**: Executes the PDM scan tool with the list of changed files.

This approach should help resolve the origin error and ensure your batch script runs smoothly. Let me know if you encounter any further issues or need additional assistance! 😊

**You said**

every time fresh clone will help to find the Latest changed file to previous ones

**Copilot said**

A fresh clone can indeed help to ensure you have the latest state of the repository, but it may not be the most efficient way to track changes. Here’s why:

**Fresh Clone Pros and Cons:**

* **Pros**:
  + **Clean Slate**: Ensures no local modifications interfere with the repository state.
  + **Consistency**: Guarantees you are working with the exact state of the remote repository.
* **Cons**:
  + **Time-Consuming**: Cloning a repository afresh every time can take a significant amount of time, especially for large repositories.
  + **Bandwidth Usage**: Continuously cloning a repository uses more bandwidth.

**Better Alternatives:**

To efficiently find the latest changes, you can use a strategy that avoids the need to clone the repository from scratch every time:

**Using Fetch and Stash:**

Here's a refined script that fetches the latest changes and uses stashing to ensure you always have the latest updates:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Check if the remote 'origin' is configured

git remote -v

if %ERRORLEVEL% NEQ 0 (

echo "Adding remote origin..."

git remote add origin https://<your-bitbucket-repo-url>.git

)

REM Stash uncommitted changes

git stash push -m "Temporary stash before updating with remote changes"

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Checkout the specified branch

git checkout %branch%

REM Pull the latest changes from the remote branch

git pull origin %branch%

REM Apply the stashed changes

git stash pop

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation:**

* **Stash Uncommitted Changes**: Temporarily stashes any local changes to avoid interference with the update.
* **Fetch Latest Changes**: Updates your local branch with the latest changes from the remote repository without requiring a full clone.
* **Apply Stashed Changes**: Reapplies any local changes that were stashed earlier.
* **Get Changed Files**: Identifies the files that have changed since the last commit.
* **Run PDM Scan**: Executes the PDM scan tool on the changed files.

This approach is more efficient than cloning the repository every time, ensuring you always work with the latest changes while minimizing the time and bandwidth required.

Give this method a try and let me know if it works better for you! 😊

**You said**

if mutile stashes are there how to handle

**Copilot said**

If you have multiple stashes, you can manage and apply specific stashes by referencing their stash index. Here's a modified version of the batch script to handle multiple stashes:

**Step 1: Modify the Batch Script to Handle Multiple Stashes**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Check if the remote 'origin' is configured

git remote -v

if %ERRORLEVEL% NEQ 0 (

echo "Adding remote origin..."

git remote add origin https://<your-bitbucket-repo-url>.git

)

REM Stash uncommitted changes

git stash push -m "Temporary stash before updating with remote changes"

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Checkout the specified branch

git checkout %branch%

REM Pull the latest changes from the remote branch

git pull origin %branch%

REM List all stashes

set "stashes="

for /f "delims=" %%i in ('git stash list') do (

set "stashes=!stashes! %%i"

)

REM Apply the stashed changes in reverse order

for /f "tokens=2 delims=:" %%i in ('echo !stashes!') do (

git stash pop %%i

)

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation**

* **Stash Uncommitted Changes**: git stash push stashes any uncommitted changes with a message.
* **Fetch Changes**: git fetch origin %branch% fetches the latest changes for the specified branch.
* **Checkout Branch**: git checkout %branch% checks out the specified branch.
* **Pull Latest Changes**: git pull origin %branch% pulls the latest changes from the remote branch.
* **List All Stashes**: The script lists all the stashes using git stash list.
* **Apply Stashes in Reverse Order**: The script applies the stashed changes in reverse order using git stash pop with the stash index.
* **Get Changed Files**: The for loop iterates over the list of changed files and builds a string of file names.
* **Run PDM Scan Tool**: The PDM scan tool is executed with the list of changed files as arguments.
* **ANT Script (Optional)**: The ANT script can be run if needed.

This approach ensures that all stashed changes are applied in the correct order, preventing any conflicts or lost changes.

Feel free to give this method a try and let me know if you need any further assistance! 😊

**You said**

Update the script to reset the code , do n't need to stash teh changes

**Copilot said**

Got it! If you don't need to stash the changes and prefer to reset the code to match the remote branch, you can modify the script to discard any local changes and reset the repository to the state of the remote branch.

Here's the updated batch script:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Check if the remote 'origin' is configured

git remote -v

if %ERRORLEVEL% NEQ 0 (

echo "Adding remote origin..."

git remote add origin https://<your-bitbucket-repo-url>.git

)

REM Fetch the latest changes for the specified branch

git fetch origin %branch%

REM Reset the local branch to match the remote branch

git reset --hard origin/%branch%

REM Get the list of changed files

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the PDM scan tool with the changed files as arguments

"C:\path\to\pdm\_scan\_tool.exe" --files %changed\_files%

REM Optionally, run the ANT script with the changed files as arguments

REM ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**Explanation**

* **Navigate to Repository**: Change directory to your local repository path.
* **Check Git Remote**: Ensures the remote repository is configured.
* **Add Remote if Missing**: Adds the remote repository if it is not configured.
* **Fetch Latest Changes**: Fetches the latest changes from the specified remote branch.
* **Reset Local Branch**: git reset --hard origin/%branch% resets the local branch to match the remote branch, discarding any local changes.
* **Get Changed Files**: The for loop iterates over the list of changed files and builds a string of file names.
* **Run PDM Scan Tool**: Executes the PDM scan tool with the list of changed files as arguments.
* **ANT Script (Optional)**: The ANT script can be run if needed.

By using git reset --hard, this script ensures your local branch matches the remote branch exactly, discarding any uncommitted changes. This approach is efficient and prevents any interruptions caused by local modifications.

Give this a try and let me know if you need any further assistance! 😊

**You said**

How to creeate LOcal branch for all remote branches

**Copilot said**

Creating local branches for all remote branches can be done using a few Git commands. Here's how you can do it:

**Steps to Create Local Branches for All Remote Branches**

1. **Fetch All Remote Branches**: This will ensure your local repository is up-to-date with all branches from the remote repository.

batch

Copy

git fetch --all

1. **List All Remote Branches**: Get the list of all remote branches.

batch

Copy

git branch -r

1. **Create Local Branches**: Loop through each remote branch and create a corresponding local branch.

batch

Copy

for /f "tokens=\*" %%i in ('git branch -r') do (

if not "%%i"=="origin/HEAD -> origin/main" (

setlocal enabledelayedexpansion

set "branch=%%i"

set "branch=!branch:origin/=!"

git branch !branch! %%i

endlocal

)

)

**Full Batch Script**

Here's a complete batch script to automate this process:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Fetch all remote branches

git fetch --all

REM Loop through each remote branch and create a corresponding local branch

for /f "tokens=\*" %%i in ('git branch -r') do (

if not "%%i"=="origin/HEAD -> origin/main" (

set "branch=%%i"

set "branch=!branch:origin/=!"

echo Creating local branch !branch! tracking remote branch %%i

git branch !branch! --track %%i

)

)

endlocal

**Explanation**

* **Fetch All Remote Branches**: Ensures your local repository has information about all branches on the remote.
* **List Remote Branches**: Lists all remote branches.
* **Loop Through Remote Branches**: For each remote branch (except the HEAD pointer), creates a corresponding local branch.
* **Create Local Branch**: Uses git branch to create a local branch that tracks the remote branch.

This script will create local branches for each remote branch, ensuring your local repository mirrors the branch structure of the remote repository.

Give this a try and let me know if you need any further assistance! 😊

**You said**

how to cleanup localbranch whose remote is deleted

**Copilot said**

Cleaning up local branches that have had their remote branches deleted can be handled using Git commands. Here's a step-by-step guide to remove those branches:

**Step 1: Fetch All Updates from the Remote**

This will update your local references to the remote branches and remove references to deleted branches.

batch

Copy

git fetch --prune

**Step 2: List All Local Branches with Their Remote Status**

This will show you which local branches are tracking remote branches that no longer exist.

batch

Copy

git branch -vv

**Step 3: Delete Local Branches Tracking Deleted Remote Branches**

Here’s a script to automate the deletion of local branches that are tracking remote branches that no longer exist:

**Batch Script**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Fetch all updates from the remote and prune deleted branches

git fetch --prune

REM Loop through each local branch and check its remote tracking status

for /f "tokens=1,3 delims= " %%i in ('git branch -vv') do (

set "branch=%%i"

set "remote=%%j"

if "!remote!"=="[gone]" (

echo Deleting local branch !branch! tracking deleted remote branch

git branch -d !branch!

)

)

endlocal

**Explanation**

* **Fetch All Updates**: git fetch --prune updates your local references to the remote branches and prunes (removes) references to branches that no longer exist on the remote.
* **List Local Branches**: git branch -vv lists all local branches with verbose output, showing their remote tracking status.
* **Delete Local Branches**: The script loops through each local branch and checks its remote tracking status. If a branch is tracking a remote branch that is [gone], it deletes the local branch.

**Important Notes**

* **Safe Deletion**: The script uses git branch -d, which is a safe deletion command. If the branch has unmerged changes, it will not be deleted. If you want to force delete, use git branch -D.
* **Backup**: Ensure you have backed up any important changes before running scripts that delete branches.

This approach will help you clean up your local repository by removing branches that are no longer needed because their remote counterparts have been deleted.

Feel free to run this script and let me know if you need any further assistance! 😊

**You said**

Update all local branches with remote code forcefully

**Copilot said**

To forcefully update all your local branches with the corresponding remote branches, you can follow these steps. This process will reset each local branch to match its remote counterpart, discarding any local changes.

**Steps to Forcefully Update All Local Branches**

1. **Fetch All Updates from the Remote**: Ensure your local repository is up-to-date with the remote repository.
2. **Loop Through Each Branch**: For each local branch, check if there is a corresponding remote branch and then reset the local branch to match the remote branch.

Here's a batch script to automate this process:

**Batch Script**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Fetch all updates from the remote and prune deleted branches

git fetch --all --prune

REM Loop through each remote branch and forcefully update the corresponding local branch

for /f "delims=" %%i in ('git branch -r') do (

set "remote\_branch=%%i"

set "local\_branch=!remote\_branch:origin/=!"

if not "%%i"=="origin/HEAD -> origin/main" (

echo Forcefully updating local branch !local\_branch! to match remote branch %%i

git checkout -B !local\_branch! %%i

)

)

endlocal

**Explanation**

* **Fetch All Updates**: The command git fetch --all --prune fetches all updates from the remote repository and prunes (removes) references to remote branches that no longer exist.
* **Loop Through Remote Branches**: The script loops through each remote branch using git branch -r.
* **Forcefully Update Local Branches**: For each remote branch, the script forcefully updates the corresponding local branch using git checkout -B. This command creates a new local branch if it doesn't exist or resets it to match the remote branch.

**Important Notes**

* **Discard Local Changes**: This script will discard any local changes in your branches, so make sure you have backed up any important changes before running it.
* **Local Branches Only**: This script will only update local branches that have a corresponding remote branch.

**Running the Script**

To run the script, save it as update\_branches.bat and execute it from the command prompt:

batch

Copy

update\_branches.bat

This will forcefully update all your local branches to match their corresponding remote branches, ensuring your local repository is in sync with the remote repository.

Let me know if you need any further assistance or if there are specific details you'd like to add! 😊

**You said**

Throwing Error - fatal: could not reset index file to revision 'origin\_vneTax\_dev/feature/JAVA8\_ML\_1.HF42.HF3'

**Copilot said**

The error fatal: could not reset index file to revision 'origin\_vneTax\_dev/feature/JAVA8\_ML\_1.HF42.HF3' usually indicates that there might be a file lock or some other issue preventing the reset1. Here are a few steps to troubleshoot and resolve this issue:

**Steps to Resolve the Issue**

1. **Check for File Locks**: Ensure no other applications or processes are using or locking the files in your repository1. Close any such applications and try again.
2. **Run Garbage Collection**: Sometimes, running garbage collection can help clean up unnecessary files and optimize the repository2.

batch

Copy

git gc

1. **Reset Index File**: If the issue persists, you can manually reset the index file2.

batch

Copy

rm .git/index

git reset

1. **Force Reset**: Finally, try forcing the reset again2.

batch

Copy

git reset --hard origin\_vneTax\_dev/feature/JAVA8\_ML\_1.HF42.HF3

**Batch Script Update**

Here's an updated batch script incorporating these steps:

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Fetch all updates from the remote and prune deleted branches

git fetch --all --prune

REM Run garbage collection

git gc

REM Reset index file

rm .git/index

git reset

REM Forcefully update the local branch

git reset --hard origin\_vneTax\_dev/feature/JAVA8\_ML\_1.HF42.HF3

endlocal

**Explanation**

* **Fetch All Updates**: Ensures your local repository is up-to-date with the remote repository2.
* **Run Garbage Collection**: Cleans up unnecessary files and optimizes the repository2.
* **Reset Index File**: Manually resets the index file2.
* **Force Reset**: Forces the reset to the specified remote branch2.

Try running this updated script and let me know if it resolves the issue. If you still encounter problems, we can explore further troubleshooting steps!

1github.com2discuss.puredevops.com

**You said**

how to print changed file list returned using git diff

**Copilot said**

To print the list of changed files returned by git diff, you can simply use the command and output the results to the console. Here’s how you can do it in a batch script:

**Example Batch Script**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Get the list of changed files

set "changed\_files="

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Print the list of changed files

echo List of changed files:

echo !changed\_files!

endlocal

**Explanation**

* **Navigate to Repository**: Change the directory to your local repository.
* **Get Changed Files**: Use git diff --name-only HEAD~1 HEAD to get the list of files changed between the last two commits.
* **Print Changed Files**: The for loop captures each file name and stores it in the changed\_files variable. Finally, the script prints the list of changed files.

**Running the Script**

To run the script, save it as print\_changed\_files.bat and execute it from the command prompt:

batch

Copy

print\_changed\_files.bat

This script will print the list of changed files, making it easy for you to see which files have been modified.

Give this a try and let me know if you need any further assistance! 😊

**You said**

Share the Ant script to do PDM scan with PDM jar files and dynamic file list to pass as argument to scan the files . Dynamic List should get from git diff command of teh changed files

**Copilot said**

Certainly! Here's how you can set up an ANT script to run the PDM scan tool using a PDM JAR file and a dynamic file list obtained from the git diff command.

**Steps:**

1. **Create a Batch Script to Get the Changed Files**:
2. **Set Up the ANT Build File**:
3. **Run the ANT Script**:

**Step 1: Create a Batch Script to Get the Changed Files**

First, let's create a batch script that will get the list of changed files using git diff and pass them to the ANT script.

batch

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@echo off

setlocal enabledelayedexpansion

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Get the list of changed files

set "changed\_files="

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the ANT script with the changed files as arguments

ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

Save this script as run\_pdm\_scan.bat.

**Step 2: Set Up the ANT Build File**

Now, create the ANT build file (your\_build.xml) to run the PDM scan tool using the PDM JAR file.

xml

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<project name="PDMScan" default="runPDMScan">

<target name="runPDMScan">

<java jar="C:\path\to\pdm\_scan\_tool.jar" fork="true">

<arg line="--files ${files}"/>

</java>

</target>

</project>

**Explanation:**

* **Batch Script**:
  + **Navigate to Repository**: Changes the directory to your local repository.
  + **Get Changed Files**: Uses git diff --name-only HEAD~1 HEAD to get the list of changed files.
  + **Run ANT Script**: Passes the list of changed files to the ANT script as a property (files).
* **ANT Build File**:
  + **Run PDM Scan**: Uses the <java> task to run the PDM JAR file with the changed files as arguments.

**Step 3: Run the ANT Script**

To run the entire process, execute the batch script:

batch

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run\_pdm\_scan.bat

This will fetch the list of changed files, pass them to the ANT script, and run the PDM scan tool with those files.

Give this setup a try and let me know if you need any further assistance! 😊

**You said**

update the ant script to configuer classpath separately to resolve teh dependencis

**Copilot said**

Sure! To update the ANT script to configure the classpath separately for resolving dependencies, you can use the <path> and <pathelement> tags to define the classpath and then reference it in your <java> task.

Here’s how you can modify the ANT script to include a classpath configuration:

**Updated ANT Build File**

xml

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<project name="PDMScan" default="runPDMScan">

<!-- Define the classpath for dependencies -->

<path id="pdm.classpath">

<pathelement path="C:\path\to\your\dependency1.jar"/>

<pathelement path="C:\path\to\your\dependency2.jar"/>

<!-- Add more dependencies as needed -->

</path>

<target name="runPDMScan">

<java jar="C:\path\to\pdm\_scan\_tool.jar" fork="true">

<arg line="--files ${files}"/>

<classpath refid="pdm.classpath"/>

</java>

</target>

</project>

**Explanation:**

1. **Define the Classpath**:
   * The <path> element with id="pdm.classpath" defines a classpath with the required dependencies.
   * The <pathelement> elements inside the <path> tag specify the paths to the dependency JAR files.
2. **Use the Classpath in the**<java>**Task**:
   * The <classpath refid="pdm.classpath"/> references the classpath defined earlier.
   * This ensures that all specified dependencies are included when running the PDM scan tool.

**Full Setup**

Now you have everything set up. Here’s the full setup again for clarity:

**Batch Script (run\_pdm\_scan.bat):**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Get the list of changed files

set "changed\_files="

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the ANT script with the changed files as arguments

ant -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**ANT Build File (your\_build.xml):**

xml

Copy

<project name="PDMScan" default="runPDMScan">

<!-- Define the classpath for dependencies -->

<path id="pdm.classpath">

<pathelement path="C:\path\to\your\dependency1.jar"/>

<pathelement path="C:\path\to\your\dependency2.jar"/>

<!-- Add more dependencies as needed -->

</path>

<target name="runPDMScan">

<java jar="C:\path\to\pdm\_scan\_tool.jar" fork="true">

<arg line="--files ${files}"/>

<classpath refid="pdm.classpath"/>

</java>

</target>

</project>

This updated script ensures that the PDM scan tool will have access to all the required dependencies specified in the classpath. Let me know if you need any further assistance or if there are additional details to consider! 😊

**You said**

How to enable debugging while running ant script to debug any issue , alos display the values in ant script ..

**Copilot said**

Enabling debugging in an ANT script can help you troubleshoot issues by providing more detailed output. You can enable debugging and display property values in ANT scripts using several methods.

**1. Enable Debug Logging in ANT**

You can run the ANT script with the -d (debug) or -v (verbose) option to get detailed output. This is done from the command line.

**Example**:

batch

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ant -d -f "C:\path\to\your\_build.xml" runPDMScan

or

batch

Copy

ant -v -f "C:\path\to\your\_build.xml" runPDMScan

**2. Print Property Values in ANT Script**

You can print the property values within the ANT script using the <echo> task.

**Example**:

xml

Copy

<project name="PDMScan" default="runPDMScan">

<!-- Define the classpath for dependencies -->

<path id="pdm.classpath">

<pathelement path="C:\path\to\your\dependency1.jar"/>

<pathelement path="C:\path\to\your\dependency2.jar"/>

<!-- Add more dependencies as needed -->

</path>

<target name="runPDMScan">

<echo message="Running PDM Scan with the following parameters:"/>

<echo message="Files to scan: ${files}"/>

<echo message="Classpath: ${pdm.classpath}"/>

<java jar="C:\path\to\pdm\_scan\_tool.jar" fork="true">

<arg line="--files ${files}"/>

<classpath refid="pdm.classpath"/>

</java>

</target>

</project>

**Explanation:**

* **Debug Logging**: The -d or -v options for ANT provide detailed output, which helps in identifying where issues might be occurring.
* **Echo Task**: The <echo> task prints messages to the console. This is useful for displaying property values and other information during script execution.

**Full Setup**

Here’s the complete setup for enabling debugging and displaying property values:

**Batch Script (run\_pdm\_scan.bat):**

batch

Copy

@echo off

setlocal enabledelayedexpansion

REM Get the branch name as an argument

set "branch=%1"

REM Navigate to the repository directory

cd "C:\path\to\your\repo"

REM Get the list of changed files

set "changed\_files="

for /f "delims=" %%i in ('git diff --name-only HEAD~1 HEAD') do (

set "changed\_files=!changed\_files! %%i"

)

REM Run the ANT script with debug and verbose options, passing the changed files as arguments

ant -d -v -Dfiles="%changed\_files%" -f "C:\path\to\your\_build.xml" runPDMScan

endlocal

**ANT Build File (your\_build.xml):**

xml

Copy

<project name="PDMScan" default="runPDMScan">

<!-- Define the classpath for dependencies -->

<path id="pdm.classpath">

<pathelement path="C:\path\to\your\dependency1.jar"/>

<pathelement path="C:\path\to\your\dependency2.jar"/>

<!-- Add more dependencies as needed -->

</path>

<target name="runPDMScan">

<echo message="Running PDM Scan with the following parameters:"/>

<echo message="Files to scan: ${files}"/>

<echo message="Classpath: ${pdm.classpath}"/>

<java jar="C:\path\to\pdm\_scan\_tool.jar" fork="true">

<arg line="--files ${files}"/>

<classpath refid="pdm.classpath"/>

</java>

</target>

</project>

By following these steps, you should be able to enable debugging, print useful information to the console, and diagnose any issues that arise during the execution of your ANT script. Let me know if you need any further assistance! 😊