PSWorkItem Help¹

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v1.11.0

¹https://github.com/jdhitsolutions/PSWorkItem

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PSWorkItem



This module is a replacement for the MyTasks module. The original PowerShell module offered simple tasks or to-do management. All data was stored in XML files. This module conceptually is designed the same way but instead uses a SQLite database file. The module commands are wrapped around functions from the MySQLite module.

Installation

This module requires **PowerShell 7.3 or later** and a 64-bit version of PowerShell, which I assume most people are running. **The module requires a Windows or Linux platform** until the dependency SQLite module supports other non-Windows systems.

Install the PSWorkItem module from the PowerShell Gallery.

Install-Module PSWorkItem [-scope CurrentUser]

Module installation will also install the required MySQLite module from the PowerShell Gallery. Linux support was added in MySQLite v0.13.0.

After installation, you can run Open-PSWorkItemHelp to open a PDF version of this RFADMF file.

Module Commands and Design

- Add-PSWorkItemCategory
- Complete-PSWorkItem
- Get-PSWorkItem
- Get-PSWorkItemArchive
- Get-PSWorkItemCategory

- Get-PSWorkItemData
- Get-PSWorkItemDatabase
- Get-PSWorkItemPreference
- Get-PSWorkItemReport
- Initialize-PSWorkItemDatabase
- New-PSWorkItem
- Open-PSWorkItemConsole
- Open-PSWorkItemHelp
- Remove-PSWorkItem
- Remove-PSWorkItemArchive
- Remove-PSWorkItemCategory
- Set-PSWorkItem
- Set-PSWorkItemCategory
- Update-PSWorkItemDatabase
- Update-PSWorkItemPreference

The module is based on three tables in a SQLite database file. The primary Tasks table is where active items are stored.

ColumnIndex	ColumnName	ColumnType
0	taskid	text
1	taskcreated	text
2	taskmodified	text
3	name	text
4	description	text
5	duedate	text
6	category	text
7	progress	integer
8	completed	integer

When items are queried from this table using Get-PSWorkItem they are written to the pipeline as PSWorkItem objects. This is a class-based object defined in the root module.

```
class PSWorkItemBase {
    [int]$ID
    [String]$Name
    [String]$Category
    [String]$Description
    [DateTime]$TaskCreated = (Get-Date)
    [DateTime]$TaskModified = (Get-Date)
    [boolean]$Completed
    [String]$Path
    #this will be last resort GUID to ensure uniqueness
    hidden[guid]$TaskID = (New-Guid).Guid
```

Note: These definitions were revised for v1.0.0. of this module.

Each task or PSWorkItem must have an associated category. These are stored in the Categories table.

```
ColumnIndex ColumnName ColumnType
-----
0 category text
1 description text
```

You **must** define categories with Add-PSWorkItemCategory before you can create a new task. Categories are written to the pipeline as PSWorkItemCategory objects, also defined with a PowerShell class.

```
class PSWorkItemCategory {
    [String]$Category
    [String]$Description

PSWorkItemCategory([String]$Category, [String]$Description) {
        $this.Category = $Category
        $this.Description = $Description
}
```

When a task is complete, you can use Complete-PSWorkItem to update the task as completed. This command will copy the task to the Archive table, which has the same layout as the Tasks table, and then delete it from Tasks.

PSWorkItemPath

The module defines a global variable, \$PSWorkItemPath, which points to the database file. The default file is \$HOME\PSWorkItem.db. This variable is used as the default Path parameter on all module commands. If you want to change it, do so in your PowerShell profile.

Because everything is stored in a single database file, advanced users could set up multiple PSWorkItem systems. It is up to the user to keep track of database paths.

Creating a New Database

To get started, run Initialize-PSWorkItemDatabase. This will create a new database file and set default categories of Work, Personal, Project, and Other. By default, the new database will be created using the value of \$PSWorkItemPath.

You can view a database summary with Get-PSWorkItemDatabase.

Categories

To add a new category, you must specify a category name. The description is optional. The category will be defined exactly as you enter it, so watch casing.

```
Add-PSWorkItemCategory -Category "SRV" -Description "server management tasks"
```

Use Get-PSWorkItemCategory to view your categories.

```
PS C:\> Get-PSWorkItemCategory

Category Description
------
Work
Personal
Project
Other
```

```
Blog blog management and content
SRV server management tasks
```

If you need to update a category, you can re-add it using -Force.

Note: The category name is case-sensitive.

```
PS C:\> Add-PSWorkItemCategory -Category Work -Description "business-related tasks" `
-PassThru -Force

Category Description
-----
Work business-related tasks
```

Or you can use Remove-PSWorkItemCategory and start all over.

Commands that have a Category parameter should have tab completion.

Adding a Task

Use New-PSWorkItem to define a task. You need to specify a name and category. You must specify a valid, pre-defined category. By default, the task will be configured with a due date of 30 days from now. You can specify a different datetime or specify the number of days from now.

```
New-PSWorkItem -Name "Publish PSWorkItem" -DaysDue 3 -Category Project
```

Because you have to specify a task, you might want to set a default category.

```
$PSDefaultParameterValues.Add("New-PSWorkItem:Category","Work")
```

Viewing Tasks

The primary command in this module, Get-PSWorkItem, which has an alias of gwi, has several parameter sets to help you select PSWorkItems.

- Get-PSWorkItem [-All] [-Path <String>]
- Get-PSWorkItem [-Category <String>] [-Path <String>]
- Get-PSWorkItem [-DaysDue <Int32>] [-Path <String>]
- Get-PSWorkItem [-ID <String>] [-Path <String>]
- Get-PSWorkItem [[-Name] <String>] [-Path <String>]

The default behavior is to get tasks due within the next ten days

If you are running the command in the PowerShell console or VSCode, overdue tasks will be highlighted in red. Tasks due within three days will be highlighted in yellow.

```
PS C:\> Get-PSworkitem
ID Name
                       Description
                                            DueDate
                                                                  Category Pct
13 extend car warranty
                                            6/1/2022 4:00:00 PM
                                                                  Personal
                                                                             0
                                            7/12/2022 12:00:00 PM Work
                                                                             0
11 update resume
7 password report
                                            7/15/2022 5:00:00 PM
                                                                  Work
                                                                            10
                                            8/2/2022 11:54:31 AM
10 car wash
                                                                  Personal
                                                                             0
12 Publish PSWorkitem
                                            8/2/2022 12:05:44 PM
                                                                  Project
                                                                             0
6 new server prep
                       SQL02
                                            8/3/2022 5:00:00 PM
                                                                  Work
                                                                            45
5 revise blog pages
                       essentials and tips 8/7/2022 5:00:00 PM
                                                                  Other
                                                                             0
```

Figure 1: Get-PSWorkItem

Read the examples for Get-PSWorkItem for other ways to use this command, including custom format views.

PSWorkItemCategory

In addition to formatting overdue and imminent due dates, the module also provides a mechanism to add highlighting for specific categories. Importing the module will create a global variable called PSWorkItemCategory. The key will be a category name. The value will be a \$PSStyle or ANSI escape sequence. These are the module defaults.

```
$global:PSWorkItemCategory = @{
    "Work" = $PSStyle.Foreground.Cyan
    "Personal" = $PSStyle.Foreground.Green
}
```

You can modify this hashtable as you would any other hashtable.

```
$PSWorkItemCategory.Add("Event","`e[38;5;153m")
```

The entry will have no effect unless the category is defined in the database. The category customizations last for the duration of your PowerShell session or until the module is removed. Add your customizations to your PowerShell profile script or use Update-PSWorkItemPreference to save the settings to a JSON file under \$HOME.

Note: Note that when you view the hashtable, you won't see any values because the escape sequences are non-printable.

Category highlighting is only available in the default view.

```
PS C:\> Get-PSWorkItem -all
ID Name
                              Description DueDate
                                                                      Category Pct
8 Book Spiceworld travel
9 Purge obsolete users
                                           8/1/2022 12:00:00 PM Other

      9 Purge obsolete users
      8/5/2022 8:50:59 AM Work

      2 schedule oil change
      call Stan
      08/08/2022 17:02:31 Personal

10 Order new widgets
                                            08/09/2022 08:56:15 Work
3 update resume
                                            08/16/2022 17:02:31 Personal
                                             08/31/2022 17:02:31 SRV
1 SRV2 backup
                                                                                  35
5 Password Report
                                            09/15/2022 17:02:31 Work
                                                                                  10
 6 New AD User script
                                            09/30/2022 17:02:31 Work
 4 year-end report
                                             12/28/2022 12:00:00 Work
```

Figure 2: Colorized Categories

Updating Tasks

Use Set-PSWorkItem or its alias swi to update a task based on its ID.

Completing Tasks

When a task is complete, you can move it to the Archive table.

```
PS C:\> Complete-PSWorkItem -id 7 -PassThru

Database: C:\Users\Jeff\PSWorkItem.db

ID Name Description Category Completed
-- --- Complete Completed
-- --- Complete Completed
-- --- Complete Completed
-- --- Complete Complete Complete Completed
-- --- Complete Complete Completed
-- --- Complete Complete
```

There are no commands to modify the task after it has been archived, so if you want to update the name, description, or category, do so before marking it as complete.

Complete-PSWorkItem has an alias of cwi.

Removing a Task

If you want to delete a task, you can use Remove-PSWorkItem or its alias rwi.

Remove-PSWorkItem -id 13

This command will delete the item from the Tasks database.

Beginning with v1.0.0, you can use Remove-PSWorkItemArchive to remove items from the archive table.

Reporting

You can use Get-PSWorkItemReport to get a summary report of open work items grouped by category.

PS C:\>	Get-PS	SWorkItemRe _l	port		
Path:	C:\Use	ers\Jeff\PSI	WorkItem.db		
Category	Count	PctTotal			
Personal	5	38			
Event	3	23			
Project	2	15			
Work	1	8			
Other	1	8			
Blog	1	8			
Overdue	4	31			

The percentages for each category are rounded. The percentage for Overdue items is based on all open work items.

TUI-Based Management Console

Version 1.3.0 added a management console based on the Terminal.Gui framework.

Run Open-PSWorkItemConsole or its alias wic. The form will open with your default database. You can type a new database path or use the Open Database command under Options. The file must end in .db. If you select a different database, you can use Options - Reset Form to reset to your default database.

If you select an item from the table, it will populate the form fields. You can then update, complete, or remove the item. To create a new item, it is rec-

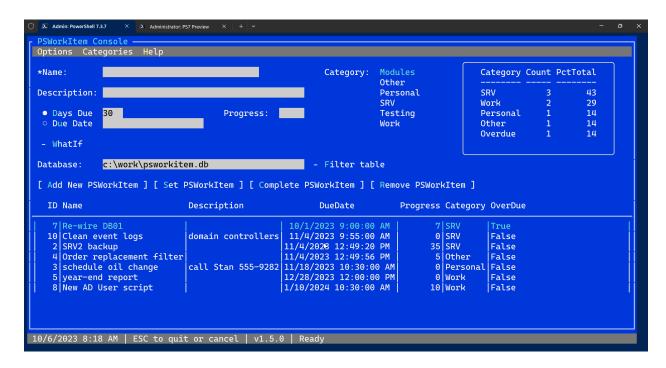


Figure 3: Using Terminal Console Management

ommended that you first clear the form (Options - Clear Form). Enter the PSWorkItem details and click the Add PSWorkItem button.

You can also manage categories.

You can right-click a task in the table to get detailed information.

IMPORTANT This command relies on a specific version of the Terminal.Gui assembly. You might encounter version conflicts from modules that use older versions of this assembly like Microsoft.PowerShell.ConsoleGuiTools. You may need to load this module first in a new PowerShell session.

User Preferences

The module includes features for the user to save preferences. You might update ANSI sequences for some categories using \$PSWorkItemCategory. You might have set a different default database path using \$PSWorkItemPath. Or you might have specified a different value for the number of default days with \$PSWorkItemDefaultDays. Instead of setting these values in your PowerShell profile, you can export them to a JSON file.

Update-PSWorkItemPreference

This will create a JSON file in \$HOME called .psworkitempref.json. The settings in this file will be used when importing the module.

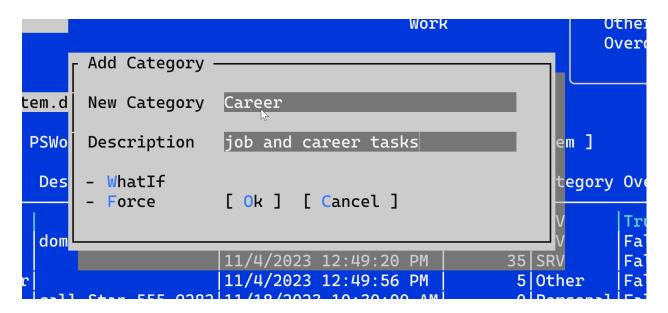


Figure 4: Add a category with the TUI console

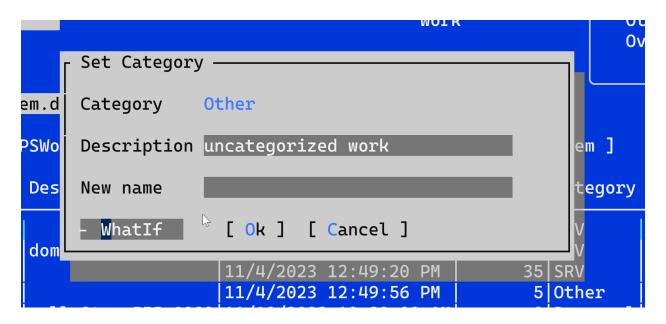


Figure 5: Set the category with the TUI console

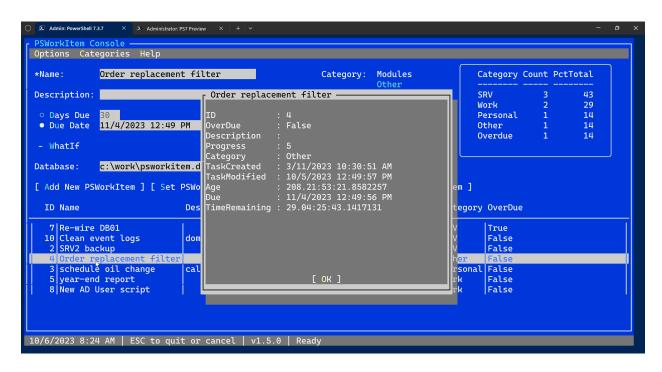


Figure 6: Get details with the TUI console

You can also specify a default category for New-PSWorkItem.

```
Update-PSWorkItemPreference -DefaultCategory Work
```

The next time you import the module, an entry will be made to \$PSDefaultParameterValues.

rametervalues.

Use Get-PSWorkItemPreference to view.

```
PS C:\> Get-PSWorkItemPreference
```

Path: C:\Users\Jeff\PSWorkItem.db [Default Days: 7 Default Category: Work]

\$global:PSDefaultParameterValues["New-PSWorkItem:Category"] = \$importPref.DefaultCategory"]

Category	ANSIString
Other	`e[38;5;204m
Project	`e[38;5;215m
Event	`e[38;5;153m
Training	`e[94m
Work	`e[36m
Personal	`e[32m

The categories are only those where you have customized an ANSI sequence. On module import, these categories will be used to populate

\$PSWorkItemCategory. If you make any changes to your preference, re-run Update-PSWorkItemPreference.

Note: You might need to manually delete the JSON preferences file if you uninstall the module.

Database Backup

This module has no specific commands for backing up or restoring a database file. But you can use the Export-MySQLiteDB command to export the PSWorkItem database file to a JSON file.

```
Export-MySQLiteDB -path $PSWorkItemPath -Destination d:\backups\pwi.json
```

Use Import-MySQLiteDB to import the file and rebuild the database file. When restoring a database file, you should restore the file to a new location, verify the database, and then copy the file to \$PSWorkItemPath.

Database Sample

A sample database has been created in the module's Samples directory. You can specify the path to the sample database or copy it to \$PSWorkItemPath to try the module out. Note that it is very likely that many of the tasks will be flagged as overdue by the time you view the database.

If you copy the sample to \$PSWorkItemPath, delete the file before creating your database file.

Reminders and Alerts

I have received requests and questions about integrating a reminder or alert system. This module does not have any built-in features for this. You could use a scheduled task or a PowerShell script to query the database for tasks due within a certain time frame and then send an email or other alert. I am reluctant to include this feature because I have no way of knowing how **you** would want to be alerted or what kind of alert you would want. That said, here are some ways you could implement this feature.

Send-MailKitMessage

I've started using Send-MailKitMessage as a replacement for Send-MailMessage I use a script to send myself a daily email.

```
#requires -version 7.2
#requires -module PSWorkItem,Send-MailKitMessage
Param([int]$Days = 5, [switch]$AsText)
#parameters to splat to Send-MailKitMessage
hash = 0{
   Credential
                 = $global:MailCredential
   From
                 = 'jhicks@jdhitsolutions.com'
   RecipientList = 'jhicks@jdhitsolutions.com'
   SMTPServer = $global:SMTPServer
   Port
                 = $global:SMTPPort
   Subject = "PSWorkItems Due in the Next $days Days"
   ErrorAction = 'Stop'
Write-Host "[$((Get-Date).ToString())] Getting tasks for the next $days days." -Fore G
$data = Get-PSWorkItem -DaysDue $Days
if ($data) {
    if ($AsText) {
        Write-Host "[$((Get-Date).ToString())] Sending as TEXT" -Fore Green
        # 10/14/2020 Modified to explicitly select properties because
        # default formatting uses ANSI which distorts the converted output.
        $body = $data | Select-Object -Property ID, Name, Description, DueDate,
        OverDue | Format-Table | Out-String
        $hash.Add('TextBody', $body)
   }
   else {
        Write-Host "[$((Get-Date).ToString())] Sending as HTML" -Fore green
        #css to be embedded in the html document
        $head = @"
   <Title>PSWorkItems Due in $Days Days</Title>
   <style>
   body {
        font-family:Tahoma;
        font-size:12pt; }
   td, th { border:1px solid black;
        border-collapse:collapse; }
   th { color:white;
        background-color:black; }
   table, tr, td, th { padding: 2px; margin: 0px }
   tr:nth-child(odd) { background-color: LightGray }
   table { width:95%; margin-left:5px; margin-bottom:20px; }
```

```
.alert { color: #bd2525 ;}
        .warn { color:#dd510b; }
        </style>
        <br>
        <H1>PSWorkItems</H1>
        [xml]$html = $data |
        Select-Object ID, Name, Description, DueDate, Category, Progress, TimeRemainir
        ConvertTo-Html -Fragment
        #parse html to add color attributes
        for ($i = 1; $i -le $html.table.tr.count - 1; $i++) {
            $class = $html.CreateAttribute('class')
            #check the number of days until the task is due
            $due = $html.table.tr[$i].td[-1] -as [TimeSpan]
            if ($due.Days -le 1) {
                $class.value = 'alert'
                [void]($html.table.tr[$i].Attributes.Append($class))
            elseif ($due.Days -le 2) {
                $class.value = 'warn'
                [void]($html.table.tr[$i].Attributes.Append($class))
            }
        }
        $Body = ConvertTo-Html -Body $html.InnerXml -Head $head | Out-String
        $hash.Add('HTMLBody', $body)
    }
}
else {
    Write-Warning "No tasks found due in the next $days days."
    #bail out
    return
}
Try {
    Send-MailKitMessage @hash
    $msg = "Message {0} sent to {1} from {2}" -f $hash.subject,$hash.RecipientList,$ha
    Write-Output "[$((Get-Date).ToString())] $msg"
Catch {
    throw $_
}
```

Because the PSWorkItem module requires PowerShell 7 and PowerShell 7 doesn't support scheduled jobs, I set up a scheduled task to run this script daily.

```
$actionArg = '-nologo -noprofile -file C:\scripts\DailyPSWorkItemEmail.ps1'
$action = New-ScheduledTaskAction -Execute 'pwsh.exe' -argument $actionArg
$trigger = New-ScheduledTaskTrigger -Daily -At 7:30AM
$options = new-ScheduledTaskSettingsSet -RunOnlyIfNetworkAvailable
paramHash = 0{
               = $True
   Force
              = "Jeff"
   User
   Password = Read-Host "Enter the user password"
   RunLevel = "highest"
   TaskName = "DailyWorkItem"
   TaskPath = "\Microsoft\Windows\PowerShellCore\ScheduledJobs\"
   Description = "Send PSWorkItem email"
   Settings = $options
               = $trigger
   Trigger
   Action
               = $action
}
Register-ScheduledTask @paramHash
```

I get an HTML-formatted email every morning with tasks due in the next 5 days.

Toast Notifications

Another option would be to create something with the excellent BurntToast module.

New-PwshToastAlarm

I use a function in PowerShell 7 to create a toast notification using a PowerShell scheduled job in Windows Powershell.

```
Mandatory,
                    ValueFromPipelineByPropertyName,
                    HelpMessage = "What date and time do you want to use for the reminder?"
          )1
          [ValidateNotNullOrEmpty()]
          [Alias("Date", "Time")]
          [DateTime]$At,
          [Parameter(
                    Mandatory,
                    ValueFromPipelineByPropertyName,
                    HelpMessage = "What message do you want to display?"
          )]
          [Alias("Event", "Message")]
          [ValidateNotNullOrEmpty()]
          [string]$Text,
          [Parameter(HelpMessage = "Specify the path to an image file to use as logo")]
          [alias("logo")]
          [string]$AppLogo = "$env:OneDriveConsumer\pictures\psrobot-icon.png",
          [Parameter(HelpMessage = "What sound would you like?", ParameterSetName = "sou
          [ValidateSet('Default', 'IM', 'Mail', 'Reminder', 'SMS', 'Alarm', 'Alarm2', 'Alar
             'Alarm4', 'Alarm5', 'Alarm6', 'Alarm7', 'Alarm8', 'Alarm9', 'Alarm10', 'Call',
             'Call2', 'Call3', 'Call4', 'Call5', 'Call6', 'Call7', 'Call8', 'Call9', 'Call1
             'None')]
          [string]$Sound = "Default",
          [Parameter(HelpMessage = "Create a silent alert", ParameterSetName = "silent")
          [switch]$Silent,
          [Parameter(HelpMessage = "Specify a job name")]
          [string]$Name = "BTReminder-$(Get-Random -Minimum 1000 -Maximum 9999)"
)
          Write-Verbose "[$((Get-Date).TimeOfDay) BEGIN ] Starting $($MyInvocation.MyCo
} #begin
Process {
          Write-Verbose "[$((Get-Date).TimeOfDay) PROCESS] Defining a toast job for $At
          h = 0{
                    Text = $Text
                    Αt
                                   = $At
                    Sound = \$sound
```

```
Name = $Name
        }
        if ($AppLogo) {
            $h.add("AppLogo", $AppLogo)
        $cmd = [System.Collections.Generic.list[string]]::new()
        $alarms = [System.Collections.Generic.list[string]]::new()
        $cmd.add("&{ . c:\scripts\New-ToastAlarm.ps1 ; ")
        $alarms.Add("New-ToastAlarm ")
        $h.GetEnumerator() | ForEach-Object {
            $alarms.Add("-$($_.key) '$($_.value)' ")
        }
        $a = $alarms -join ''
        $cmd.Add("$a}")
        Write-Verbose "[$((Get-Date).TimeOfDay) PROCESS] Invoking: $cmd"
        if ($PSCmdlet.ShouldProcess($a)) {
            powershell -NoLogo -NoProfile -command $cmd
        }
    }
   End {
        Write-Verbose "[$((Get-Date).TimeOfDay) END ] Ending $($MyInvocation.MyComm
   } #end
} #close function
```

This function calls another script that creates the toast notification as a scheduled job in Windows PowerShell.

```
HelpMessage = 'What date and time do you want to use for the reminder?'
    )]
    [ValidateNotNullOrEmpty()]
    [DateTime]$At,
    [Parameter(Mandatory, HelpMessage = 'What message do you want to display?')]
    [ValidateNotNullOrEmpty()]
    [string]$Text,
    [Parameter(HelpMessage = 'Specify the path to an image file to use as logo')]
    [alias('Logo')]
    [string]$AppLogo,
    [Parameter(HelpMessage = 'What sound would you like?', ParameterSetName = 'sou
    [ValidateSet('Default', 'IM', 'Mail', 'Reminder', 'SMS', 'Alarm', 'Alarm2',
    'Alarm3', 'Alarm4', 'Alarm5', 'Alarm6', 'Alarm7', 'Alarm8', 'Alarm9', 'Alarm10'
    'Call', 'Call2', 'Call3', 'Call4', 'Call5', 'Call6', 'Call7', 'Call8', 'Call9',
    'Call10', 'None'
    )]
    [string]$Sound,
    [Parameter(HelpMessage = 'Create a silent alert', ParameterSetName = 'silent')
    [switch]$Silent,
    [Parameter(HelpMessage = 'Specify a job name')]
    [string]$Name = "BTReminder-$(Get-Random -Minimum 1000 -Maximum 9999))"
)
Write-Verbose "Starting $($MyInvocation.MyCommand)"
Write-Verbose "Running in PowerShell $($PSVersionTable.PSVersion)"
$PSBoundParameters | Out-String | Write-Verbose
[void]($PSBoundParameters.remove('At'))
[void]($PSBoundParameters.remove('Name'))
$toastParams = 0{}
$PSBoundParameters.GetEnumerator() | ForEach-Object {
    Write-Verbose "Adding $($_.key) to `$toastParams"
    $toastParams.Add($_.key, $_.value)
}
#add a toast expiration
$toastParams.Add('Expiration', $At.AddMinutes(5))
$toastParams.Add('SnoozeAndDismiss', $True)
sb = {
    param([hashtable]$Params, [string]$JobName)
        #The Write-Host output will only show if you receive the job.
        #Use for troubleshooting.
        Write-Host 'Defining a toast job using these params' -ForegroundColor Gree
```

```
$params | Out-String | Write-Host
        Write-Host 'Toasting ... ' -ForegroundColor Green
        New-BurntToastNotification @params
        Write-Host Sleeping -ForegroundColor Green
        Start-Sleep -Seconds 60
        Write-Host "attempting to unregister $jobName" -ForegroundColor Green
        Unregister-ScheduledJob -Name $JobName
}
$job = 0{
    Trigger
                  = New-JobTrigger -At $At -Once
                   = $Name
    Name
    MaxResultCount = 1
    ScriptBlock
                 = $sb
    ArgumentList = @($toastParams, $Name)
}
Write-Verbose 'Using toast params'
$toastParams | Out-String | Write-Verbose
Write-Verbose 'Registering job'
$job | Out-String | Write-Verbose
Register-ScheduledJob @job
Write-Verbose "Ending $($MyInvocation.MyCommand)"
```

Now it is a matter of deciding when you want to be notified.

```
Get-PSWorkItem | where { -Not $_.0verDue } |
ForEach-Object -Begin {
    . C:\scripts\New-PwshToastAlarm.ps1
} -Process {
    $splat = @{
        At = ([datetime]$_.dueDate).addDays(-1)
        Text = "WorkItem $($_.Name) is due $($_.DueDate)"
    }
    New-PwshToastAlarm $splat
}
```

This is why I am hesitant to add any form of alerting or notification. I don't know what is the most effective way for **you** to be alerted. And, any alerting feature I add would more than likely add a dependency on a specific module which I want to avoid.

If you have a solution you would like to share, please feel free to post it in the repository's Discussion section.

PSWorkItem Database Change

If you were using a version of this module older than v1.0.0, this note applies to you.

Note: Version 1.0.0 of the PSWorkItem module introduced a structural change to the database tables. If you are using a database created in an earlier version, you need to run Update-PSWorkItemDatabase before adding, changing, or completing work items. You should back up your database file before running this command. **Note:** Alternatively, you could export your work items, delete the database file, initialize a new one, and re-import your work items. **Note:** During the upgrade, a new table column called ID is added to the Tasks and Archive database tables. In the Tasks table, the ID column for existing entries will be set to the row id, which should be the task number you are used to seeing. In the archive table, existing entries will get an ID value of 0 since knowing the original ID number is impossible. This database change corrects this problem. Going forward, the PSWorkItem ID will remain the same when you complete it and move the item to the Archive table.

Troubleshooting

Most of the commands in this module create custom objects derived from PowerShell class definitions and data in the SQLite database file. If you need to troubleshoot a problem, you can use Get-PSWorkItemData to select all data from one of the three tables.

PS C:\> Get-PSWorkItemData

taskid : 2196617b-b818-415d-b9cc-52b0c649a77e

taskcreated : 07/28/2023 16:56:25 taskmodified : 07/30/2023 14:01:09

name : Update PSWorkItem module

description : v0.6.0

duedate : 12/31/2023 12:00:00

category : Other
progress : 10
completed : 0
rowid : 19

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Future Tasks or Commands

• Password protection options.

If you have an enhancement suggestion, please submit it as an Issue.