

${\sf PSBlueSky\ Help^1}$

https://jdhitsolutions.github.io

v2.6.0 - 15 April 2025

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

Contents

PSBluesky PSBluesky	2
Installation	. 2
Module Information	. 2
Open-BskyHelp	. 3
Get-BskyModuleInfo	. 3
Authentication	. 4
Session and Tokens	. 4
Credentials	. 5
App Passwords	. 5
Rate Limits	. 7
Posting	. 7
Emojis	. 8
Multi-Line Posts	. 8
Reposting and Quoting	. 8
Profiles	. 9
Followers	. 11
Searching for Users	. 11
Following	. 13
Blocking	. 14
Feed	. 15
Notifications	. 16
Timeline	. 17
Searching for Posts	. 18
Starter Packs	. 19
API Logging	. 20
Ad-Hoc Scripting	21
Information and Troubleshooting	23
Other Module Features	
Custom Formatting	
Type Extensions	. 25
Custom Verbose Messaging	. 25
Preferences	. 26
Roadmap	. 28

PSBluesky

This module is a set of PowerShell functions designed to let you interact with the Bluesky API from a PowerShell session. Technically, the module commands are wrappers around the AT protocol. The module is written for *PowerShell 7*, although it might work as written in Windows PowerShell with minimal changes if you wish to fork the GitHub repository. Commands *have not* been thoroughly tested for cross-platform compatibility, so please post an Issue if you encounter a problem.

The commands in this module are **not** intended to provide complete coverage of the Bluesky API or user experience. Instead, the module focuses on the most common tasks you might want to do with Bluesky from a PowerShell prompt.

For best results, you should run this module in a PowerShell console that supports emojis and ANSI formatting like Windows Terminal.

Installation

You can install the module from the PowerShell Gallery.

Install-Module -Name PSBluesky

Or using Install-PSResource from the Microsoft.PowerShell.PSResourceGet module.

Install-PSResource -Name PSBluesky -Repository PSGallery -TrustRepository

You might want to also install the following or related modules to securely store your Bluesky credentials:

- Microsoft.PowerShell.SecretManagement
- Microsoft.PowerShell.SecretStore

Module Information

After installing this module, you should end up with these PSBluesky commands:

Add-Bskylmage	Block-BskyUser	Disable-BskyLogging
Enable-BskyLogging	Export-BskyPreference	Find-BskyUser
Get-BskyAccountDID	Get-BskyBlockedList	Get-BskyBlockedUser
Get-BskyFeed	Get-BskyFollowers	Get-BskyFollowing
Get-BskyLiked	Get-BskyLogging	Get-BskyModuleInfo

Get-BskyNotification	Get-BskyPreference	Get-BskyProfile
Get-BskySession	Get-BskyStarterPack	Get-BskyStarterPackList
Get-BskyTimeline	New-BskyFollow	New-BskyPost
Open-BskyHelp	Publish-BskyPost	Remove-BskyFollow
Remove-BskyLogging	Remove-BskyPreferenceFile	Set-BskyLogging
Set-BskyPreference	Start-BSkySession	Unblock-BskyUser
Update-BskySession		

Open-BskyHelp

After importing the module you can run Open-BskyHelp which will open a PDF version of this document in the default application associated with PDF files. Note that not all emojis will render properly in the PDF. Or you can use the -AsMarkdown parameter to read this file using markdown formatting. Not all Markdown features may properly render in the console.

Get-BskyModuleInfo

You can use Get-BskyModuleInfo to get a summary of the module. The default output includes clickable links to online command help and the module's GitHub repository.

PS C:\> Get-BskyModuleI	nfo	
Module: PSBlueSky [v	2.6.0]	
Name	Alias	Synopsis
Add-BskyImage		Upload an image to Bluesky.
Block-BskyUser		Block a Bluesky user account.
Disable-BskyLogging		Disable BlueSky API logging.
Enable-BskyLogging		Enable BlueSky API logging.
Export-BskyPreference		Export your PSBlueSky formatting preference settings
		to a file.
Find-BskyPost		Find Bluesky posts using a search term or text.
Find-BskyUser	bsu	Search for Bluesky user accounts.
Get-BskyAccountDID		Resolve a Bluesky account name to its DID.
Get-BskyBlockedList	bsblocklist	Get your subscribed blocked lists.
Get-BskyBlockedUser	bsblock	Get your blocked accounts.
Get-BskyFeed	bsfeed	Get your Bluesky feed.
Get-BskyFollowers	bsfollower	Get your Bluesky followers.
Get-BskyFollowing	bsfollow	Get a list of Bluesky accounts that you follow.
Get-BskyLiked	bsliked	Get your liked Bluesky posts.
Get-BskyLogging		Getting the current PSBlueSky API logging settings.
Get-BskyModuleInfo		Get a summary of the PSBlueSky module.
Get-BskyNotification	bsn	Get Bluesky notifications.
Get-BskyPreference		Get PSBlueSky formatting preference settings.
Get-BskyProfile	bsp	Get a Bluesky profile.
Get-BskySession	bss	Show your current Bluesky session.

Get Bluesky starter packs for a specified profile. Get-BskyStarterPack bssp Get a Bluesky starter pack and the list of profiles Get-BskyStarterPackList bssplist it contains. Get your Bluesky timeline. Get-BskyTimeline bst New-BskyFollow Follow-BskyUser Follow a Bluesky user. Create a Bluesky post. New-BskyPost skeet Open-BskyHelp bshelp Open the PSBluesky help document. Publish-BskyPost Repost-BskyPost Repost or quote a Bluesky post. Remove-BskyFollow Unfollow-BskyUser Unfollow a Bluesky user. Remove-BskyLogging Remove the PSBlueSky API log file. Delete the user's PSBlueSky preference file. Remove-BskyPreferenceFile Set-BskyLogging Configure PSBlueSky API logging. Set-BskyPreference Set a PSBlueSky formatting preference. Start a new Bluesky session. Start-BSkySession Unblock-BskyUser Unblock a Bluesky user account. Update-BskySession Refresh-BskySession Refresh the Bluesky session token.

The output will include clickable links to the online help for each command.

Authentication

Session and Tokens

In order to send data, you must authenticate. Version 2.0.0 of this module introduced a new session model. After you import the module, you **must run** Start-BskySession to initialize the module and setup module-scoped variables.

Start-BskySession -credential \$cred

The credential must be a PSCredential object representing your Bluesky username (handle) and password. (See below)

This command will create a hidden session object that will be called from other module commands to get the necessary authentication token for the Invoke-ResetMethod header. The access token has a limited lifetime unless it is refreshed. Beginning with version 2.4.0, the module will refresh the token every 60 minutes through a background runspace using a synchronized hashtable. If you remove the module, the runspace will be removed as well.

Run Get-BskySession to see your current session information.

```
PS C:\> Get-BskySession

User: jdhitsolutions.com

Active AccessToken RefreshToken Age
----- ----- ----
True eyJ0eXAiOiJhdCtqd3Qi ... eyJ0eXAiOiJyZWZyZXNo ... 00:05:41.5115796
```

If you want to manually test the Bluesky API in your own code, you can use the access and refresh

token properties from this object.

```
PS C:\> $bskySession = Get-BskySession

PS C:\> $access = $bskySession.AccessToken

PS C:\> $refresh = $bskySession.RefreshToken
```

However, it is still possible you will encounter an expired token error message. If you do, you can run Update-BskySession to refresh the token.

```
Get-BSkySession | Update-BskySession
```

If this also fails, remove the module, re-import and start a new Bluesky session, including re-running Start-BskySession.

Credentials 2

You will need to create a PSCredential object with your Bluesky username and password. **The username is case-sensitive**. For automation purposes, you can use the Secrets management module to store your credential. Write your own code to retrieve the credential and pass it to the module commands.

You might want to use PSDefaultParameterValues to set the credential for all commands.

\$PSDefaultParameterValues['*-Bsky*:Credential'] = \$BlueskyCredential

You should only need this credential for Start-BskySession.

This module does not support 2FA. You must use an app password.

App Passwords

While this module does not use your credential object for anything other than establishing a Bluesky session, you may elect to take a more secure approach and use an app password. This password can be revoked at any time without affecting your main account password. Follow these steps if you want to use an app password with this module.

In the Bluesky app, go to your profile and select Settings. Then select App Passwords.



Figure 1: Bluesky app passwords

You will need to create a new app password. Give it a meaningful name.

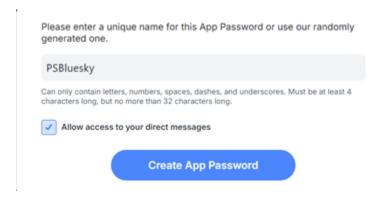


Figure 2: Bluesky creating an app password

Click the button to create the app password.

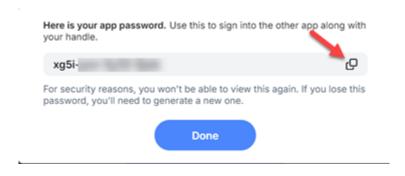


Figure 3: Bluesky app password

You will only see the password once. Copy the password and save it in a secure location such as a secrets management vault.

Next, you need to create a credential object in PowerShell. The user name will be the DID (decentralized identifier) for your account. The password will be the app password you just created. You can run Get-BskyAccountDID to get your DID. This command does not require authentication.

```
$did = Get-BskyAccountDID jdhitsolutions.com
```

Now you can create a credential object.

```
PS C:\> $cred = Get-Credential $did

PowerShell credential request

Enter your credentials.

Password for user did:plc:ohgsqpfsbocaaxusxqlgfvd7:
```

Enter the app password. You will use this credential object with Start-BskySession. I recommend you save the credential in a secrets management vault and retrieve it when you need to start a Bluesky session.

```
$cred = Get-Secret -Name PSBlueskyCredential
$PSDefaultParameterValues['*-*Sky*:Credential'] = $cred
```

You can revoke an app password at any time. If you do, you will need to create a new app password and update your credential object.

I recommend you use an app password with this module and protect your primary account password. If your Bluesky account is protected with 2FA, you *must* use an app password with this module.

Rate Limits

The commands in this module use the public Bluesky API which means there are rate limits. If you exceed the rate limit, you will get an error message. You will need to wait until the rate limit resets.

There is a rate limit of 300 new sessions per day. This shouldn't be an issue for most people unless you are testing code or running some sort of high-volume automation.



Posting

Use New-BskyPost, or its alias skeet, to post a message to Bluesky. There are parameters to include an image. If you include an image, the New-BskyPost command will call Add-BskyImage to upload the image. It is **strongly recommended** that you include ALT text for the image.

```
$param = @{
    Message = "Getting close to sharing my #PowerShell Bluesky code."
    ImagePath = "C:\work\MsPowerShell.jpg"
    ImageAlt = "Ms. PowerShell"
    Verbose = $true
}
New-BskyPost @param
```

The output is a URL to the post.

If your message contains a URL, it will be converted to a clickable link. Make sure your link is surrounded by white space. Beginning with v1.0.0, you can post Markdown style links.

```
PS C:\> $m = "Testing multiple Markdown style links from my [#PowerShell PSBluesky module](https://github.com/jdhitsolutions/PSBluesky) which you can find on the [PowerShell Gallery](https://www.powershellgallery.com/packages/PSBlueSky/0.6.0)"
PS C:\> skeet $m
```

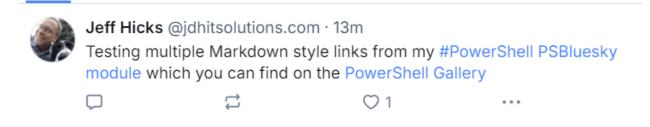


Figure 4: Markdown links in a Bluesky post

This example is using the skeet alias for New-BskyPost.

Emojis

You can include emojis in your post, however use with caution. If your post is nothing but text with an emoji or two, you shouldn't encounter any issues. However, if you mix emojis with tags or links, the posted message might not display the tags or links properly. Inserting tags and links requires calculations using the line length. Some emojis may throw off the calculations.

Multi-Line Posts

The command will strip off any Unicode control characters except for a new line. If you would like to create a multi-line post, using a here-string is recommended.

```
PS C:\> $s= @"
I am amazed that the [PSBluesky](https://github.com/jdhitsolutions/PSBluesky)
module has almost 7K downloads. I started throwing things together only three
months ago.

Thank you.

#PowerShell
"@
PS C:\> skeet $s -ImagePath C:\scripts\PSBluesky\images\BlueskyLogo-icon.png
-ImageAlt "Bluesky logo"
```

This example uses the alias skeet for New-BskyPost.

Reposting and Quoting

You can repost or quote a Bluesky post with Publish-BskyPost. You will need the CID and AT Uri (URI) of the post you want to repost or quote. These values should be part of items you can get with commands like Get-BskyFeed or Get-BskyTimeline.

```
PS C:\> Get-BskyTimeline -Limit 1 | Select-Object *

Author : joeydantoni.com

AuthorDisplay : Joey D'Antoni
```

```
Date
              : 1/9/2025 12:11:13 PM
Text
              : I would likely denormalize the data a little bit, and
                have a non-vector table with ref. data like date that
                you could filter on, before doing the heavier lifting
                of the vector query. Almost like a fact/dim join in a
                DW. learn.microsoft.com/en-us/sample... cc
                @mauridb.bsky.social for a better example
Liked
Reposted
              : 0
Ouoted
URL
              : https://bsky.app/profile/did:plc:3dvxs53kzjez5oxcbucfsa
                cf/post/3lfd6cfv7hs2o
URI
              : at://did:plc:3dvxs53kzjez5oxcbucfsacf/app.bsky.feed.post
                /3lfd6cfv7hs2o
              : bafyreih7yplygqrno2n3n5mhqs35fbwqovxsvc6xrictt4afzgnwrt7
CID
```

The easiest way to repost or quote a post is to pipe the object to Publish-BskyPost.

```
l[-1] | Publish-BskyPost
PS C:\>
VERBOSE: [12:14:47:7437 BEGIN
                                    ] Publish-BskyPost-> Starting PSBluesky module command
VERBOSE: [12:14:47:7440 BEGIN
VERBOSE: [12:14:47:7442 BEGIN
VERBOSE: [12:14:47:7464 BEGIN
VERBOSE: [12:14:47:7466 BEGIN
                                      Publish-BskyPost-> Running under PowerShell version 7.4.6
                                      Publish-BskyPost-> Using PowerShell Host ConsoleHost
                                      Publish-BskyPost-> Running under Operating System Microsoft Windows 10.0.26100
                                                             Using module PSBluesky version 2.2.0
                                      Publish-BskyPost->
VERBOSE: [12:14:47:7470 PROCESS] Publish-BskyPost
                                                              Reposting the message with AT Uri at://did:plc:nsy2e4vupxndly4adhs
zebcy/app.bsky.feed.post/3lfbhddas6s25
What if: Performing the operation "Publish to Bluesky" on target "at://did:plc:nsy2e4vupxndly4adhszebcy/app.bsky.feed.p
ost/3lfbhddas6s25"
                                    ] Publish-BskyPost-> Ending PSBluesky module command
VERBOSE: [12:14:47:7476 END
PS C:\>
```

Figure 5: Reposting a Bluesky post

This example assumes that \$tl is an array of objects from Get-BskyTimeline. If you don't specify a quote, the command will repost the original message. If you do specify a quote, the command will quote the original message.

```
$f[-4] | Publish-BskyPost -Quote "Testing quoting with a PSBluesky command"
```

The command has an alias of Repost-BskyPost. If you include quote text, the post will be a quote, otherwise it will show as a repost from you.

Profiles

The module has a command to retrieve a Bluesky profile.

```
Get-BskyProfile jdhitsolutions.com
```

The module uses a custom format file.

```
Jeff Hicks [jdhitsolutions.com]

PowerShell Author ~ Learning Architect ~ MVP 
Prof. PowerShell Emeritus 
Grizzled and grumpy IT Pro - https://jdhitsolutions.github.io/
Manateur composer - https://musescore.com/user/26698536
Wine drinker 
Posts Followers Following Lists
-----
5/21/2023 10:44 AM 1243 2002 416 2
```

Figure 6: A Bluesky user profile

The user's profile name should be a clickable link.

The object has been customized with aliases and script properties.

```
PS C:\> $jeff = Get-BskyProfile
PS C:\> $jeff | Select-Object *
Username : jdhitsolutions.com
            : Jeff Hicks
Display
           : 5/21/2023 10:44:48 AM
Created
Description : PowerShell Author ~ Learning Architect ~ MVP []
              Prof. PowerShell Emeritus [
              Grizzled and grumpy IT Pro - https://jdhitsolutions.github.io/
              DAmateur composer - https://musescore.com/user/26698536
              Wine drinker □□ and dog lover
            : https://cdn.bsky.app/img/avatar/plain/did:plc:ohgsqpfsbocaaxusx
Avatar
              glgfvd7/bafkreifdfahcjmytu3iw2aj2d3howu6g7twkta3h23gmlve2d2mvo5
              sily@jpeg
Posts
            : 1243
Followers
          : 2002
Following : 416
Lists
           : 2
URL
            : https://bsky.app/profile/jdhitsolutions.com
DID
            : did:plc:ohgsqpfsbocaaxusxqlgfvd7
Viewer
            : @{muted=False; blockedBy=False; knownFollowers=}
Labels
            : jdhitsolutions.com
Name
Age
            : 618.22:15:32.5068959
```

Note the Followers property may not be 100% accurate. This counter may not properly reflect accounts that have stopped following you. The way that Bluesky is handling bot accounts may also affect this count.



You can retrieve a list of your followers. You can specify a number of followers between 1 and 100. The default is 50.

```
PS C:\> Get-PSBlueskyFollowers -Limit 2

Display Username Description
Jonathan Lank jpluk.bsky.social
Libby Brown trubludevil.social Product manager @ SpruceID. Mom. Digital Wallet and Passe
```

Figure 7: Bluesky followers

The custom formatting includes a clickable link to the follower's profile if running in Windows Terminal or a console that supports hyperlinks.

You can pipe the follower object to Get-BskyProfile to retrieve more information.

The default behavior is to retrieve between 1 and 100 followers. Or you can use the -All parameter to retrieve all followers.



Searching for Users

You can search for Bluesky users with Find-BskyUser. The default behavior is to search for a user by name. The search is case-insensitive.

```
Find-BskyUser -UserName "jeff h" -Limit 3
```

The default output includes clickable links to the user's profile. This object too has been customized with aliases and script properties.

PS C:\> Find-BskyUser -UserName "jeff h" -Limit 3 |

Select-Object *Name,Description,Created,Age

DisplayName : Jeff (no, the other one)

UserName : jeff-notheotherone.bsky.social

Description : When I use a word, Humpty said, it means just what I choose it to

mean - neither more nor less.

The question is, said Alice, whether you can make words mean so

many different things.

H: The question is which is to be Master - that's all.

Created : 8/11/2023 6:27:08 AM Age : 514.11:04:04.2416645

DisplayName : F-O Loignon

UserName : foloignon.bsky.social

Description : « Un p'tit gosseux » - MBC

« Une caricature » - H. Buzetti

« L'osti de tapette communiste woke » - Un pirate

Je suis pas mal l'amalgame de tout ce que Jeff Fillion haït : prof, artiste, écolo, socialiste, LGBT, féministe, antiraciste,

intello, etc.

Created : 10/5/2023 8:09:28 PM Age : 458.21:21:43.9869033

DisplayName : Jeff H

UserName : jhorowitzmd.bsky.social

Description: Division Chief of Pulm, Crit Care and Sleep Med at OSU. Lung

fibrosis investigator. Cubs. Star Wars, GoT, LoTR, Avengers. Dad,

husband, son and brother. RT's do not mean endorsement.

#horoblast.

Created : 11/13/2024 6:53:06 AM Age : 54.10:38:05.3790593

The value you specify for the user name will also search the user's description property. This is a handy way of finding users with similar interests.

Find-BskyUser powershell

```
Username: Dave Carroll [thedavecarroll.com]
Created
                    Description
4/29/2023 6:52:59 AM #PowerShell #Developer and enthusiast with a side of
                    #DevOps, #Python, infrastructure, and #RetroComputing.
                    Lifelong #cinephile and #punster.
                    #Aspie #INTJ #9w1
                    He/Him
                    https://thedavecarroll.com
   Username: Sandro [kharec.info]
Created
                    Description
7/24/2023 3:46:02 AM F R /U S SysOps turned #DevOps 🚵
                    Python/Go/C++/Perl developper  ♥ JSON/YAML/HCL lover 🚍
                    Bash/PowerShell eater 🐯 repressed DBA 🏶 pop culture nerd
                    Username: Frode [frodeflaten.com]
```

Figure 8: Find Bluesky users via their description

You can pipe the search results to Get-BskyProfile to retrieve more information.

Following

Likewise, you can get a list of all the accounts you are following.

```
Display

-----
Kevin Cunningham

Mediatring.dev

Description

-----

Beveloper educator | Helping dev teams keep their JS/TS, Python and PHP sharp (sometimes Java and Golang too)

https://kevincunningham.co.uk

Northern Ireland

Pichardhicks.com

Last Week Tonight with John Oliver UPDATE

Last Week Tonight with John Oliver UPDATE

Last Week Tonight with John Oliver

"Northern Ireland"

Last Week Tonight with John Oliver

"unaffiliated"
```

Figure 9: Bluesky following

As with followers, the default behavior is to retrieve between 1 and 100 accounts you are following. Or you can use the -All parameter to retrieve all accounts you are following.

Starting with version 2.3.0, you can follow and unfollow Bluesky users with New-BskyFollow and Remove-BskyFollow. These commands can also be referenced by their aliases Follow-BskyUser and Unfollow-BskyUser.

To follow, specify the account's user name or handle.

```
PS C:\> Follow-BskyUser andrewpla.tech
https://bsky.app/profile/did:plc:xrspiwserax6shgskcj7grgg
```

The output is a clickable link to the followed user's profile.

To unfollow, you can pipe a user object to Remove-BskyFollow

```
PS C:\> Remove-BskyFollow andrewpla.tech -WhatIf
What if: Performing the operation "Remove-BskyFollow" on target "andrewpla.tech".
```

Or you can pipe a user object to Remove-BskyFollow.

```
PS C:\> Get-BskyProfile andrewpla.tech | Remove-BskyFollow -Passthru

cid rev
---
bafyreibe4a3ewrh2oty2jercit75q42wdnuuip22b3tq6jybwamdz7daq4 3lfnjoouju62k
```

The followed user will receive a notification when you follow them but not when you unfollow them.



You can block a Bluesky user with Block-BskyUser. You will need the user's user name.

```
PS C:\> Block-BskyUser -UserName "PooBar1234.bsky.social"
```

You can also pipe follower or profile objects to the command.

```
PS C:\> $f[-1] | Block-BskyUser -WhatIf
What if: Performing the operation "Block-BskyUser" on target "thedavecarroll.com
[did:plc:rlwd5iajr3btl5e7gyvfwk67]".
PS C:\> Get-BskyProfile thedavecarroll.com | Block-BskyUser
```

Use Get-BskyBlockedUser to see a formatted display.



Figure 10: Blocked Bluesky users

To unblock is just as easy.

```
Unblock-BskyUser thedavecarroll.com
```

If you subscribe to any block lists, use Get-BskyBlockedList to see the list.

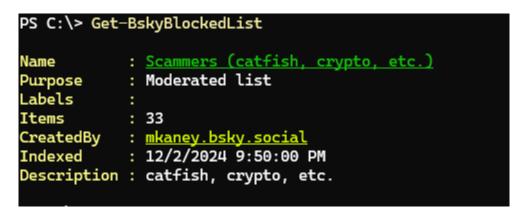


Figure 11: Get Bluesky blocked list

The formatted output includes hyperlinks.



Use Get-BskyFeed to retrieve the latest posts from *your* feed. You can query for 1 to 100. The default output uses a custom format file. The current behavior is to get posts and replies.

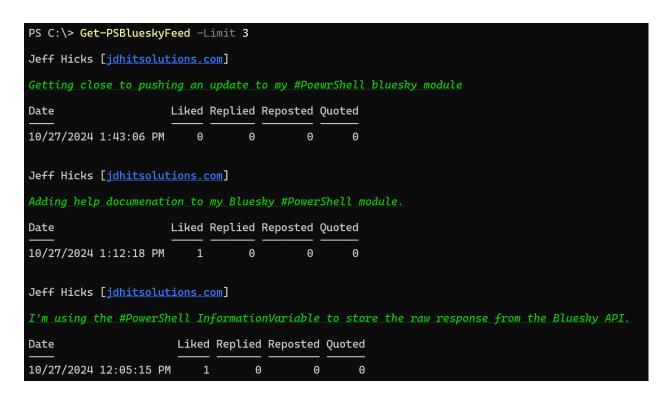


Figure 12: Getting your Bluesky feed

The formatted output includes clickable links to the the author, which might be different than you if reposting, and the post. For best results, run PowerShell 7 in Windows Terminal.



You can retrieve your notifications with Get-BskyNotification. You can specify a limit of 1 to 100. The default is 50.

Get-BskyNotification -limit 10

The default formatted output includes clickable links to the author and the liked or reposted skeet.





Figure 13: Getting your Bluesky notifications

Long account names will be truncated in the formatted output.



If you want to view items from your timeline, use the Get-BskyTimeline command.

```
- 11/4/2024 10:19:40 AM → M Peter Sagal [petersagal.bsky.social]

FINAL ELECTION THOUGHTS 

In 2020, Susie Bright, then of the Arion Press of SF, asked me to write an essay on the Preamble to the US Constitution. It summarizes my feelings about democracy, this moment in history, and the task before us.

1 20 0

- 11/4/2024 10:17:51 AM → M Joshua J. Friedman [joshuajfriedman.com]

Complaint, with exhibits (432 pp.)

3 20 0

- 11/4/2024 10:14:17 AM → M jamelle [jamellebouie.net]

odds that chua takes a ride on the amy wax train?

55 20 0

- 11/4/2024 10:13:50 AM → M Joshua J. Friedman [joshuajfriedman.com]

Happening now: Elon Musk's legal team is in court in Philly for a hearing on
```

Figure 14: Getting your Bluesky timeline

You can specify a limit of 1 to 100. The default is 50.

```
Get-BskyTimeline -Limit 25
```

The command uses a custom format file. The default formatted output includes clickable links to the author and the post.



Searching for Posts

Module version 2.6.0 introduced an **experimental** command called **Find-BskyPost**. This command allows you to search for posts using a search term or text. You can limit your search by account name and/or date.

Find-BskyPost -query "PSConfEU" -Since "4/1/2025"

```
PS C:\> Find-BskyPost -query "PSConfEU" -Since "4/1/2025"
Date
                     Liked Replied Reposted Quoted
4/15/2025 3:31:53 PM
Jeff Hicks [jdhitsolutions.com]
I am looking forward to #PSConfEU this summer. I spent a college semester abroad at the university in Lund, not too
far away. Hoping I can sneak in a quick train ride and visit.
Date
                    Liked Replied Reposted Quoted
4/8/2025 7:02:55 PM
                                                Θ
                                2
Patch My PC [patchmypc.com]
They're pretty great, right? We won't make it to PSConfEU this year, but we've got several other conferences on the
lineup 📴 patchmypc.com/events?utm_c...
Will you be at any of these?
Date
                    Liked Replied Reposted Quoted
4/8/2025 2:38:53 PM
Thorsten Butz 🙎 [thorsten.butz.io]
So that thi is clear, @patchmypc.com : better bring some ducks to @psconfeu , I want one of these ! 💠
```

Figure 15: Find-BskyPost

Default output includes clickable links to the author and the post.

The API used by the command is limited in functionality. For now, there is no way to search for tags. Do not include hashtags in your search query. The command will fail.



Module version 2.6.0 added two commands to retrieve starter packs. If you know the owner's account name, you can get information about the starter pack using Get-BskyStarterPack.

Get-BskyStarterPack -UserName thedavecarroll.com

Figure 16: Get-BskyStarterPack

To get list members, pipe the list object to Get-BskyStarterPackList.

Get-BskyStarterPack -UserName thedavecarroll.com | Get-BskyStarterPackList

Figure 17: Get-BskyStarterPackList

Ryan Yates	blog.kilasuit.org	Founder of @mhasl.me
SeeminglyScience	seeminglyscience.com	Software Engineer for PowerShell at Microsoft

API Logging

Beginning with v2.4.0, you can enable API logging. This will allow you to keep track of what API endpoints you are using. You might want to know this information to gauge your usage against API rate limits. Logging is disabled by default when you import the module.

Run Get-BskyLogging to see the current logging status.

```
PS C:\> Get-BskyLogging

LoggingEnabled LogFile

-----

False C:\Users\Jeff\AppData\Local\Temp\bskyAPILogging.json

0
```

To enable logging, run Enable-BskyLogging.

```
PS C:\> Enable-BskyLogging -Passthru | Select LoggingEnabled
LoggingEnabled
-----
True
```

When an Bluesky API request is made, it will be logged to a JSON file. When you enable logging, beginning in version 2.5.0, the command will define a global variable, \$bskyLogFile which makes it easier to work with the log file.

```
PS C:\> Get-Content $bskyLogFile | ConvertFrom-Json | Select-Object -last 2
Date
         : 1/27/2025 2:45:02 PM
PID
         : https://bsky.social/xrpc/com.atproto.repo.createRecord
Uri
Endpoint : com.atproto.repo.createRecord
Name
         : createRecord
Command : New-BskyPost
        : ConsoleHost
Host
        : 1/27/2025 2:49:51 PM
Date
PID
Uri
         : https://bsky.social/xrpc/app.bsky.actor.getProfile?actor=jdhitsolutions.com
Endpoint : app.bsky.actor.getProfile
Name
         : getProfile
Command : Get-BskyProfile
Host : ConsoleHost
```

If you see a command like _getPostText or RunspaceRefreshSession, these are private helper functions. Exported module commands follow the verb-noun naming convention.

It should be easier to work with structured data to analyze usage patterns. The default log is in your %TEMP% directory. You can change the log file location Set-BskyLogging.

```
PS C:\> Set-BskyLogging c:\temp\api.json -WhatIf
What if: Performing the operation "Set-BskyLogging" on target "c:\temp\api.json".
```

If you set the location, this will also update \$bskyLogFile.

You can disable logging with Disable-BskyLogging.

```
PS C:\> Disable-BskyLogging
```

If you want to clear the logging file or start over, you can easily delete it.

```
PS C:\> Remove-BskyLogging -WhatIf
What if: Performing the operation "Remove File" on target "C:\Users\Jeff\
AppData\Local\Temp\bskyAPILogging.json".
```

Changes you make to logging will persist for the duration of your PowerShell session. The next time you import the module, the default settings will be used and you will need to re-enable logging and/or change the log file location.

The assumption is that logging is a temporary feature to help you troubleshoot or monitor your API usage and thus logging settings are not stored as module preferences.

Logging information is stored in the BskySession object, but you should use the module functions to manage it.

Ad-Hoc Scripting

You can use the PSBluesky module in ad-hoc scripting projects using the Bluesky API. One common requirement is to provide an authentication header. Since you can use the PSBluesky module to create an authenticated session, you can create a header from this information.

The session object has a script method you can use to create a header.

```
PS C:\> $headers = (Get-BskySession).CreateHeader()
PS C:\> $headers

Name
----
Content-Type
Authorization

PS C:\> $headers

Value
----
application/json
Bearer eyJ0eXAiOiJhdCtqd...
```

During your scripting, if you get an error about an expired token, recreate the headers variable.

Say you want to use the actor-get-preferences API. You can define the uri according to the documentation.

```
$PDSHost = "https://bsky.social"
$uri = "$PDSHost/xrpc/app.bsky.actor.getPreferences"
```

Then you can use the Invoke-RestMethod cmdlet to make the API call.

\$r = Invoke-RestMethod -Uri \$uri -Method Get -Headers \$headers

And then work with results.

```
PS C:\> $r.preferences
hideReplies
                        : False
hideRepliesByUnfollowed : False
hideRepliesByLikeCount : 2
hideReposts
                       : False
hideQuotePosts
                       : False
                       : app.bsky.actor.defs#feedViewPref
$type
feed
                        : home
nuxs : {@{id=TenMillionDialog; completed=True}, @{id=NeueTypography; completed
        =True}}
$type : app.bsky.actor.defs#bskyAppStatePref
PS C:\> $r.preferences[0] | Select hide*
hideReplies
                        : False
hideRepliesByUnfollowed : False
hideRepliesByLikeCount : 2
hideReposts
                       : False
hideQuotePosts
                      : False
```

Here's another example using the get-known-followers API.

```
PS C:\> $uri = "$PDSHost/xrpc/app.bsky.graph.getKnownFollowers?actor=
jdhitsolutions.com&limit=100"
PS C:\> $r = Invoke-RestMethod -Uri $uri -Headers $headers
PS C:\> $r.followers.count
100
PS C:\> \r.followers[-1]
did
            : did:plc:h6cd7ej2sl4hswxfyjp6b4mx
handle
            : harjit.bsky.social
displayName : Harjit Dhaliwal [Hoorge]
            : https://cdn.bsky.app/img/avatar/plain/did:plc:h6cd7ej2sl4hswxfyj
avatar
              p6b4mx/bafkreibb56a7ywrmwqcfn5wj42a473wj375c4l33526xiitch2td3an4
              km@jpeg
associated : @{chat=}
            : @{muted=False; blockedBy=False;
viewer
              following=at://did:plc:ohgsqpfsbocaaxusxqlgfvd7/app.bsky.grap...
              followedBy=at://did:plc:h6cd7ej2sl4hswxfyjp6b4mx/app.bsky.gra...
labels
createdAt
            : 5/1/2023 4:35:34 AM
description : Senior Product Marketing Manager for Cloud Endpoints at Microsoft,
```

```
Ex-Microsoft MVP, IT Pro, Social Media Strategist, Photographer,
International Speaker, Mentor.

https://about.me/HarjitDhaliwal
https://aka.ms/TacklingTech

#Windows #Microsoft #Copilot
indexedAt : 11/29/2024 1:28:38 AM
```



Information and Troubleshooting

The commands in this module should write the raw response from the API request to the Information stream. Some commands might include additional information.

```
PS C:\> $me = Get-PSBlueskyProfile jdhitsolutions.com -InformationVariable v
PS C:\> $v | select *
                              @{did=did:plc:ohgsqpfsbocaaxusxqlgfvd7; handle=jdhitsolutions.com; displayName=Jef
avatar=https://cdn.bsky.app/img/avatar/plain/did:plc:ohgsqpfsbocaaxusxqlgfvd7/bafk
MessageData
                                 associated=; viewer=; labels=System.Object[]; createdAt=5/21/2023 2:44:48 PM; desc
Prof. PowerShell Emeritus Grizzled and grumpy IT Pro - https://jdhitsolutions.github.io/
                                 MAMATEUR composer - https://musescore.com/user/26698536
Wine drinker ♥ and dog lover; indexedAt=10/26/2024 3:45:40 PM;
banner=https://cdn.bsky.app/img/banner/plain/did:plc:ohgsqpfsbocaaxusxqlgfvd7/bafk
followersCount=322; followsCount=177; postsCount=543}
C:\Scripts\PSBlueskyProfile.ps1
 Source
                                 10/27/2024 12:02:44 PM
TimeGenerated
                                  {raw}
 Tags
                                  THINKX1-JH\Jeff
                                 ThinkX1-JH
Computer
ProcessId
                                 20632
NativeThreadId
                                 20936
 ManagedThreadId
                                 17
```

Figure 18: Information stream

The output will be an object.

```
PS C:\> $v.MessageData | Select-Object did,handle,*count

did : did:plc:ohgsqpfsbocaaxusxqlgfvd7

handle : jdhitsolutions.com

followersCount : 322

followsCount : 177

postsCount : 543
```

You might want to set a default parameter value.

```
$PSDefaultParameterValues['*-*Sky*:InformationVariable'] = "iv"
```

Other Module Features

Custom Formatting

Many of the commands in this module use custom formatting files to provide a more visually appealing output. The module uses emojis and ANSI formatting. The formatting is designed for Windows Terminal or a console that supports ANSI formatting and emojis.

Some commands will also have alternative format views.

```
PS C:\> $tl | sort liked -desc | select -first 10 | format-table -view liked
Liked Date
690 1/9/2025 11:32:07 AM Know Your Meme [knowyourmeme.com]
                                                                                         On this day 12 years ago, @kcg.bsky.social
                                                                                        posted the "This is Fine" comic.
       1/9/2025 12:35:47 PM Aaron Rupar [atrupar.com]
                                                                                          Some of the responses we've seen to the CA fires
                                                                                         illustrate the same basic political dynamic that
                                                                                        helped Trump win last year. It's a given
Republicans will crap on Dems when things go
                                                                                        wrong. But it's also a given that the far left
does it too, often in equally misleading ways.
Californians are all too familiar with
        1/9/2025 12:34:56 PM NPR [npr.org]
                                                                                        flip flopping weather extremes, and new research suggests that weather whiplash is increasing as
                                                                                         the atmosphere warms due to human-caused climate
                                                                                        change. via @kqednews.bsky.social
        1/9/2025 12:34:10 PM David Roberts [volts.wtf]
                                                                                          To an asshole, all virtue is "virtue signaling."
                                                                                        People are pressing me for an example, so here
you go. Far left social media ran wild yesterday
        1/9/2025 12:42:44 PM Aaron Rupar [atrupar.com]
                                                                                        with the narrative that Karen Bass cut the LA
                                                                                        fire department. That's misleading at best, but
is the exact sort of talking point that gets
                                                                                        heavy plan in rightwing media.
Welcome to Bluesky! A few tips:
       1/9/2025 8:02:54 AM Steve Kenson [stevekenson.com]
```

Figure 19: Liked custom view

Command	Format	ViewName	Description
Get-BskyLiked	Table	Liked	A custom view for liked posts
Get-BskyTimeline	Table	Liked	A custom view for liked posts
Get-BskyTimeline	Table	Default	An alternate table view
Get-BskyFeed	Table	Liked	A custom view for liked posts
Get-BskyModuleInfo	List	Default	A custom view for module information

If you have the pwshSpectreConsole module installed, it will be detected and used to display images like a user profile picture.



Figure 20: Enhanced profile with pwshSpectreConsole

If you do not have the module installed, you'll get the default output.

Type Extensions

You are encourage to pipe command results to Get-Member to discover additional properties you might find useful.

Custom Verbose Messaging

This module uses ANSI formatting with localized string data and customized verbose messaging.

```
PS C:\> $f = Get-BskyFeed -Limit 10 -Verbose
VERBOSE: [10:31:47:2888 BEGIN ] Get-BskyFeed-> Starting PSBluesky module command
VERBOSE: [10:31:47:2891 BEGIN ] Get-BskyFeed-> Running under PowerShell version 7.4.6
VERBOSE: [10:31:47:2892 BEGIN ] Get-BskyFeed-> Using PowerShell host ConsoleHost
VERBOSE: [10:31:47:2895 BEGIN ] Get-BskyFeed-> Running under Operating System Microsoft Windows 10.0.26100
VERBOSE: [10:31:47:2895 BEGIN ] Get-BskyFeed-> Using module PSBluesky version 2.0.0
VERBOSE: [10:31:47:2898 PROCESS] Get-BskyFeed-> Using module PSBluesky version 2.0.0
VERBOSE: [10:31:47:2899 PROCESS] Get-BskyFeed-> https://bsky.social/xrpc/app.bsky.feed.getAuthorFeed?actor=did:plc:ohg
sqpfsbocaaxusxqlgfvd78limit=10&filter=posts_with_replies
VERBOSE: Requested HTTP/1.1 GET with 0-byte payload
VERBOSE: Requested HTTP/1.1 response of content type application/json of unknown size
VERBOSE: Content encoding: utf-8
VERBOSE: [10:31:47:8473 END ] Get-BskyFeed-> Ending PSBluesky module command
```

Figure 21: Custom verbose messaging

The color formatting the command names is not user-configurable at this time.

I am hoping to add localized strings for other languages as well as localizations to command help and the help PDF file.

Preferences

The module features that rely on custom formatting and ANSI colorization may not be compatible in all console environments or for all users. You may need to adjust settings to improve the display. All formatting preferences are stored in an exported hash table variable called bskyPreferences. While you can modify this variable directly, it is recommended that you use the related module commands to manage it.

Run Get-BskyPreference to see your current settings.

```
PS C:\> Get-BskyPreference
Setting
                      Style
                      'e[4;38;5;190m
Username
ProfileDescription
                       e[3;96m
                      `e[3;93m
Message
BlockedList
                      e[4;92m
IsRepost
                       e[36m
LikedLow
                      `e[38;5;48m
LikedMedium
                      e[38;5;214m
LikedHigh
                      `e[38;5;105m
LikedHighest
                      e[38;5;201m
                      e[3;38;5;220m
InfoAlias
ActiveSession
                       e[92m
                      e[91m
InActiveSession
Add-BskyImage
                       e[1;38;5;122m
Find-BskyUser
                      `e[1;38;5;111m
Get-BskyFeed
                      `e[1;96m
Get-BskyBlockedList
                      `e[1;38;5;165m
Get-BskyBlockedUser
                      `e[1;38;5;168m
Get-BskyFollowers
                      `e[1;38;5;182m
Get-BskyFollowing
                      `e[1;38;5;208m
Get-BskyLiked
                       e[1;38;5;201m
Get-BskyNotification
                      `e[1;38;5;195m
Get-BskyProfile
                      `e[1;38;5;214m
Get-BskySession
New-BskyFollow
                       e[1;38;5;147m
New-BskyPost
                      `e[1;38;5;159m
Publish-BskyPost
                      e[1;38;5;180m
Remove-BskyFollow
Start-BskySession
                      `e[1;38;5;228m
DefaultCommand
                      e[1;38;5;51m
```

Figure 22: Bluesky preferences

You can use Set-BskyPreference to change them.

```
Set-BskyPreference Username -style "`e[3;38;5;135m"
```

You can use any ANSI sequence or \$PSStyle value. Any changes you make will only persist for the duration of your PowerShell session or until you remove the PSBluesky module. The next time you import the module, the default preferences will be used. To save your changes, run Export-BskyPreference to save your preferences to a JSON file under \$HOME.

The next time you import the module, if this file is present, the module will import it and apply your preferences.

To remove your preferences and restore the module defaults, you can use Remove-BskyPreferenceFile and then re-import the module. If you decide to uninstall the module, and have exported preferences, you should run this command before uninstalling. Otherwise, you will need to manually delete the file.

Roadmap **E**

I have a short list of items on my wish list:

- Add support for posting video
- Add commands to work with direct messages, aka chat
- Maybe create a TUI-base reader for your timeline

If you are testing the module and think you've found a bug, please post an **Issue**. For all other topics and questions, including feature requests, please use the repository's **Discussions** section. I am open to pull requests if you have a feature you'd like to add. I especially would love to see the Pester tests expanded and the pending tests completed.

Note: You can find me on Bluesky as jdhitsolutions.com.