



# PSBlueSky Help<sup>1</sup>

<https://jdhitsolutions.github.io>

v2.5.0 - 29 Jan 2025

<sup>1</sup><https://github.com/jdhitsolutions/PSBluesky>

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# 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:

---

<a href="#">Add-BskyImage</a>	<a href="#">Block-BskyUser</a>	<a href="#">Disable-BskyLogging</a>
<a href="#">Enable-BskyLogging</a>	<a href="#">Export-BskyPreference</a>	<a href="#">Find-BskyUser</a>
<a href="#">Get-BskyAccountDID</a>	<a href="#">Get-BskyBlockedList</a>	<a href="#">Get-BskyBlockedUser</a>
<a href="#">Get-BskyFeed</a>	<a href="#">Get-BskyFollowers</a>	<a href="#">Get-BskyFollowing</a>
<a href="#">Get-BskyLiked</a>	<a href="#">Get-BskyLogging</a>	<a href="#">Get-BskyModuleInfo</a>

---

<a href="#">Get-BskyNotification</a>	<a href="#">Get-BskyPreference</a>	<a href="#">Get-BskyProfile</a>
<a href="#">Get-BskySession</a>	<a href="#">Get-BskyTimeline</a>	<a href="#">New-BskyFollow</a>
<a href="#">New-BskyPost</a>	<a href="#">Open-BskyHelp</a>	<a href="#">Publish-BskyPost</a>
<a href="#">Remove-BskyFollow</a>	<a href="#">Remove-BskyLogging</a>	<a href="#">Remove-BskyPreferenceFile</a>
<a href="#">Set-BskyLogging</a>	<a href="#">Set-BskyPreference</a>	<a href="#">Start-BskySession</a>
<a href="#">Unblock-BskyUser</a>	<a href="#">Update-BskySession</a>	

---

## 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-BskyModuleInfo

Module: PSBlueSky [v2.4.0]

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 format...
Find-BskyUser             bsu             Search for Bluesky user accou...
Get-BskyAccountDID        Resolve a Bluesky account nam...
Get-BskyBlockedList       bsbblocklist    Get your subscribed blocked l...
Get-BskyBlockedUser       bsbblock        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...
Get-BskyLiked             bsliked         Get your liked Bluesky posts.
Get-BskyLogging           Getting the current PSBlueSky ...
Get-BskyModuleInfo        Get a summary of the PSBlueSky ...
Get-BskyNotification      bsn            Get Bluesky notifications.
Get-BskyPreference        Get PSBlueSky formatting prefe...
Get-BskyProfile           bsp            Get a Bluesky profile.
Get-BskySession           bss            Show your current Bluesky session.
Get-BskyTimeline          bst            Get your Bluesky timeline.
New-BskyFollow            Follow-BskyUser Follow a Bluesky user.
New-BskyPost              skeet          Create a Bluesky post.
```

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-BskyPreferenceFile		Delete the user's PSBlueSky pre ...
Set-BskyLogging		Configure PSBlueSky API logging.
Set-BskyPreference		Set a PSBlueSky formatting pref ...
Start-BskySession		Start a new Bluesky session.
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    eyJ0eXAI0iJhdCtqd3Qi ... eyJ0eXAI0iJyZWZyZXNo ... 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.

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

## Credentials

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**.

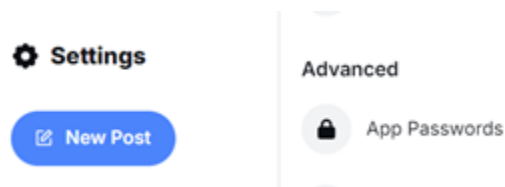


Figure 1: Bluesky app passwords

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

Please enter a unique name for this App Password or use our randomly generated one.

PSBluesky

Can only contain letters, numbers, spaces, dashes, and underscores. Must be at least 4 characters long, but no more than 32 characters long.

☒ Allow access to your direct messages

Create App Password

Figure 2: Bluesky creating an app password

Click the button to create the app password.

Here is your app password. Use this to sign into the other app along with your handle.

xg5i- [blurred]

For security reasons, you won't be able to view this again. If you lose this password, you'll need to generate a new one.

Done

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
```





Jeff Hicks @jdhitsolutions.com · 13m

Testing multiple Markdown style links from my [#PowerShell PSBluesky module](#) which you can find on the [PowerShell Gallery](#)



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      : 0
Reposted   : 0
Quoted     : 0
URL        : https://bsky.app/profile/did:plc:3dvxs53kzjez5oxcbucfsa
             cf/post/3lfd6cfv7hs2o
URI        : at://did:plc:3dvxs53kzjez5oxcbucfsacf/app.bsky.feed.post
             /3lfd6cfv7hs2o
CID        : bafyreih7yplygqrno2n3n5mhqs35fbwqovxsvc6xriett4afzgnwrt7
             epi

```

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

```

PS C:\> $tl[-1] | Publish-BskyPost -Verbose -WhatIf
VERBOSE: [12:14:47:7437 BEGIN ] Publish-BskyPost-> Starting PSBluesky module command
VERBOSE: [12:14:47:7440 BEGIN ] Publish-BskyPost-> Running under PowerShell version 7.4.6
VERBOSE: [12:14:47:7442 BEGIN ] Publish-BskyPost-> Using PowerShell Host ConsoleHost
VERBOSE: [12:14:47:7464 BEGIN ] Publish-BskyPost-> Running under Operating System Microsoft Windows 10.0.26100
VERBOSE: [12:14:47:7466 BEGIN ] Publish-BskyPost-> Using module PSBluesky version 2.2.0
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".
VERBOSE: [12:14:47:7476 END ] Publish-BskyPost-> Ending PSBluesky module command
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.

```

PS C:\> Get-BskyProfile jdhitsolutions.com

Jeff Hicks [jdhitsolutions.com]

PowerShell Author ~ Learning Architect ~ MVP 🏆
Prof. PowerShell Emeritus 🦉
Grizzled and grumpy IT Pro - https://jdhitsolutions.github.io/
🎵 Amateur composer - https://musescore.com/user/26698536
Wine drinker 🍷🐶 and dog lover

Created          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
Display       : Jeff Hicks
Created       : 5/21/2023 10:44:48 AM
Description   : PowerShell Author ~ Learning Architect ~ MVP 🏆
               Prof. PowerShell Emeritus 🦉
               Grizzled and grumpy IT Pro - https://jdhitsolutions.github.io/
               🎵 Amateur composer - https://musescore.com/user/26698536
               Wine drinker 🍷🐶 and dog lover
Avatar        : https://cdn.bsky.app/img/avatar/plain/did:plc:ohgsqpfsbocaaxusxqlgfv7/bafkreifdfahcjmytu3iw2aj2d3howu6q7twkta3h23qmlve2d2mvo5sily@jpeg
Posts         : 1243
Followers     : 2002
Following     : 416
Lists        : 2
URL           : https://bsky.app/profile/jdhitsolutions.com
DID           : did:plc:ohgsqpfsbocaaxusxqlgfv7
Viewer        : @{muted=False; blockedBy=False; knownFollowers=}
Labels        :
Name          : jdhitsolutions.com
Age           : 618.22:15:32.5068959

```

Note the 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.



## Followers

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	<a href="#">jpluk.bsky.social</a>	
Libby Brown	<a href="#">trubludevil.social</a>	Product manager @ SpruceID. Mom. Digital Wallet and Passl

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.

```
PS C:\> $f= Get-BskyFollowers
PS C:\> $f[12] | Get-BskyProfile
```

Jess Pomfret [jpomfret.bsky.social]

Database Engineer with a passion for automation, proper football and fitness. She/Her.

Created	Posts	Followers	Following	Lists
8/14/2023 3:58:44 PM	125	236	157	1

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-0 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 #cinophile 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 developer 🎧 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.

```

PS C:\> $p = Find-BskyUser powershell -Limit 10
PS C:\> $p | Get-BskyProfile

Chrissy LeMaire [funbucket.dev]

Dual Microsoft MVP, GitHub Star, creator of dbatools, author
http://dbatools.io/book ☐☐

Totally into PowerShell, SQL Server and AI.

☐ North of France

Created      Posts Followers Following Lists
-----
4/24/2023 12:12:00 PM 688      1435      614      0
...

```

## Following

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

```
PS C:\> get-bskyFollowing -limit 3
```

Display	Username	Description
Kevin Cunningham	<a href="https://dolearning.dev">dolearning.dev</a>	Developer educator   Helping dev teams keep their JS/TS, Python and PHP sharp (sometimes Java and Golang too)  <a href="https://kevincunningham.co.uk">https://kevincunningham.co.uk</a>
Richard M. Hicks Last Week Tonight with John Oliver UPDATE	<a href="https://richardhicks.com">richardhicks.com</a> <a href="https://lastweektonight1.bsky.social">lastweektonight1.bsky.social</a>	📍 Northern Ireland / video / info / resources / 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.

## Blocking

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.

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

Display	Username	Labels	Blocked	Description
Dave Carroll	<a href="https://thedavecarroll.com">thedavecarroll.com</a>		1/21/2025 9:42:30 AM	#PowerShell #Developer and enthusiast with a side of #DevOps, #Python, infrastructure, and #RetroComputing. Lifelong #cinophile and #punster.  #Aspie #INTJ #9w1 He/Him

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.

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

```
Name       : Scammers \(catfish, crypto, etc.\)
Purpose    : Moderated list
Labels     :
Items      : 33
CreatedBy  : mkaney.bsky.social
Indexed    : 12/2/2024 9:50:00 PM
Description: catfish, crypto, etc.
```

Figure 11: Get Bluesky blocked list

The formatted output includes hyperlinks.

## Feed

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.



```
PS C:\> Get-PSBlueskyFeed -Limit 3

Jeff Hicks [jdhitsolutions.com]

Getting close to pushing an update to my #PoewrShell bluesky module

Date                Liked Replied Reposted Quoted
-----
10/27/2024 1:43:06 PM      0      0      0      0

Jeff Hicks [jdhitsolutions.com]

Adding help documentation to my Bluesky #PowerShell module.

Date                Liked Replied Reposted Quoted
-----
10/27/2024 1:12:18 PM      1      0      0      0

Jeff Hicks [jdhitsolutions.com]

I'm using the #PowerShell InformationVariable to store the raw response from the Bluesky API.

Date                Liked Replied Reposted Quoted
-----
10/27/2024 12:05:15 PM      1      0      0      0
```

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.

## Notifications

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.

-  Like
-  Follow
-  Repost
-  Reply

Date	Account	Subject
11/13/2024 1:36 PM	→ <a href="#">mscommunity.bsky.social</a>	
11/13/2024 1:24 PM	→ <a href="#">Oscar</a>	
11/13/2024 1:18 PM	→ <a href="#">dirteam.bsky.social</a>	
11/13/2024 1:04 PM	→ <a href="#">Hoang Chu</a>	
11/13/2024 1:01 PM	👍 <a href="#">Madhu PERERA</a>	<u>I have published v1.2.0 of the PSBluesky module to the #PowerShell Gallery. Run Open-BskyHelp to read the help PDF</u>
	Like	
	follow	
11/13/2024 12:54 PM	→ <a href="#">medford</a>	
11/13/2024 12:48 PM	→ <a href="#">tysonro.bsky.social</a>	
11/13/2024 12:17 PM	→ <a href="#">sqljuju.bsky.social</a>	
11/13/2024 11:47 AM	👍 <a href="#">Mark Oldham</a>	<u>I'm on track to double my follower count in one week. I don't think I ever had this type of engagement in the upside down. Thank you.</u>
	links	
11/13/2024 11:38 AM	→ <a href="#">martyntolley.bsky.social</a>	

Figure 13: Getting your Bluesky notifications

Long account names will be truncated in the formatted output.

## Timeline

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

▶ 11/4/2024 10:19:40 AM ◀	🦋 Peter Sagal [ <a href="#">petersagal.bsky.social</a> ]
<u>FINAL ELECTION THOUGHTS</u> 🗳️	
<u>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.</u>	
❤️1 🗳️0 💬0	
▶ 11/4/2024 10:17:51 AM ◀	🦋 Joshua J. Friedman [ <a href="#">joshuaajfriedman.com</a> ]
<u>Complaint, with exhibits (432 pp.)</u>	
❤️3 🗳️0 💬0	
▶ 11/4/2024 10:14:17 AM ◀	🦋 jamelle [ <a href="#">jamellebouie.net</a> ]
<u>odds that chua takes a ride on the amy wax train?</u>	
❤️55 🗳️0 💬0	
▶ 11/4/2024 10:13:50 AM ◀	🦋 Joshua J. Friedman [ <a href="#">joshuaajfriedman.com</a> ]
<u>Happening now: Elon Musk's legal team is in court in Philly for a hearing on</u>	

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.

## 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                               LogFileSize
-----
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        : 31876
Uri        : https://bsky.social/xrpc/com.atproto.repo.createRecord
Endpoint   : com.atproto.repo.createRecord
Name       : createRecord
Command    : New-BskyPost
Host       : ConsoleHost

Date       : 1/27/2025 2:49:51 PM
PID        : 31876
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	Value
Content-Type	application/json
Authorization	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
$type                 : app.bsky.actor.defs#feedViewPref
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:h6cd7ej2sl4hswxfyjpb6b4mx
handle    : harjit.bsky.social
displayName : Harjit Dhaliwal [Hoorge]
avatar    : https://cdn.bsky.app/img/avatar/plain/did:plc:h6cd7ej2sl4hswxfyj
           p6b4mx/bafkreibb56a7ywrnwqcf5wj42a473wj375c4l33526xiitch2td3an4
           km@jpeg
associated : @{chat=}
viewer     : @{muted=False; blockedBy=False;
```

```

following=at://did:plc:ohgsqpfsbocaaxusxqlgfvd7/app.bsky.grap ...
followedBy=at://did:plc:h6cd7ej2sl4hswxfyjpb6b4mx/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 *

MessageData      : @{did=did:plc:ohgsqpfsbocaaxusxqlgfvd7; handle=jdhitsolutions.com; displayName=Jeff
                  avatar=https://cdn.bsky.app/img/avatar/plain/did:plc:ohgsqpfsbocaaxusxqlgfvd7/bafk
                  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/
                  🎹Amateur 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}
Source           : C:\Scripts\PSBluesky\functions\Get-PSBlueSkyProfile.ps1
TimeGenerated    : 10/27/2024 12:02:44 PM
Tags             : {raw}
User             : THINKX1-JH\Jeff
Computer        : ThinkX1-JH
ProcessId       : 20632
NativeThreadId   : 20936
ManagedThreadId : 17

```

Figure 15: 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	Author	Text
690	1/9/2025 11:32:07 AM	Know Your Meme [ <a href="https://knowyourmeme.com">knowyourmeme.com</a> ]	On this day 12 years ago, @kcg.bsky.social posted the "This is Fine" comic.
668	1/9/2025 12:35:47 PM	Aaron Rupar [ <a href="https://atrupar.com">atrupar.com</a> ]	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.
397	1/9/2025 12:34:56 PM	NPR [ <a href="https://npr.org">npr.org</a> ]	Californians are all too familiar with 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
309	1/9/2025 12:34:10 PM	David Roberts [ <a href="https://volts.wtf">volts.wtf</a> ]	To an asshole, all virtue is "virtue signaling."
230	1/9/2025 12:42:44 PM	Aaron Rupar [ <a href="https://atrupar.com">atrupar.com</a> ]	People are pressing me for an example, so here you go. Far left social media ran wild yesterday 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.
208	1/9/2025 8:02:54 AM	Steve Kenson [ <a href="https://stevekenson.com">stevekenson.com</a> ]	Welcome to Bluesky! A few tips:

Figure 16: Liked custom view

Command	Format	ViewName
Get-BskyLiked	Table	Liked
Get-BskyTimeline	Table	Liked
Get-BskyTimeline	Table	Default
Get-BskyFeed	Table	Liked
Get-BskyModuleInfo	List	Default

### Type Extensions

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

```
PS C:\> Get-BskyProfile thedavecarroll.com |  
Format-List Name,Description,Created,Age
```

```

Name      : thedavecarroll.com
Description : #PowerShell #Developer and enthusiast with a side of #DevOps,
              #Python, infrastructure, and
              #RetroComputing. Lifelong #cinophile and #punster.

              #Aspie #INTJ #9w1
              He/Him

              https://thedavecarroll.com
Created   : 4/29/2023 6:52:59 AM
Age       : 633.07:27:20.9929789

```

## 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: [10:31:47:2894 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-> Querying 10 feed items for jdhitsolutions.com
VERBOSE: [10:31:47:2899 PROCESS] Get-BskyFeed-> https://bsky.social/xrpc/app.bsky.feed.getAuthorFeed?actor=did:plc:ohg
sappfsbocaaxusxqlgfvd7&limit=10&filter=posts_with_replies
VERBOSE: Requested HTTP/1.1 GET with 0-byte payload
VERBOSE: Received 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
PS C:\>

```

Figure 17: 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
-----
Username               `e[4;38;5;190m
ProfileDescription     `e[3;96m
Message                `e[3;93m
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
InfoAlias              `e[3;38;5;220m
ActiveSession          `e[92m
InactiveSession        `e[91m
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        `e[1;38;5;197m
New-BskyFollow         `e[1;38;5;147m
New-BskyPost           `e[1;38;5;159m
Publish-BskyPost       `e[1;38;5;180m
Remove-BskyFollow      `e[1;95m
Start-BskySession      `e[1;38;5;228m
DefaultCommand         `e[1;38;5;51m
```

Figure 18: 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`.

```
PS C:\> Export-BskyPreference -Passthru

Directory: C:\Users\Jeff

Mode                LastWriteTime         Length Name
----                -
-a---             1/13/2025   9:41 AM           1091 .psbluesky-preferences.json
```

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

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](https://jdhitsolutions.com).