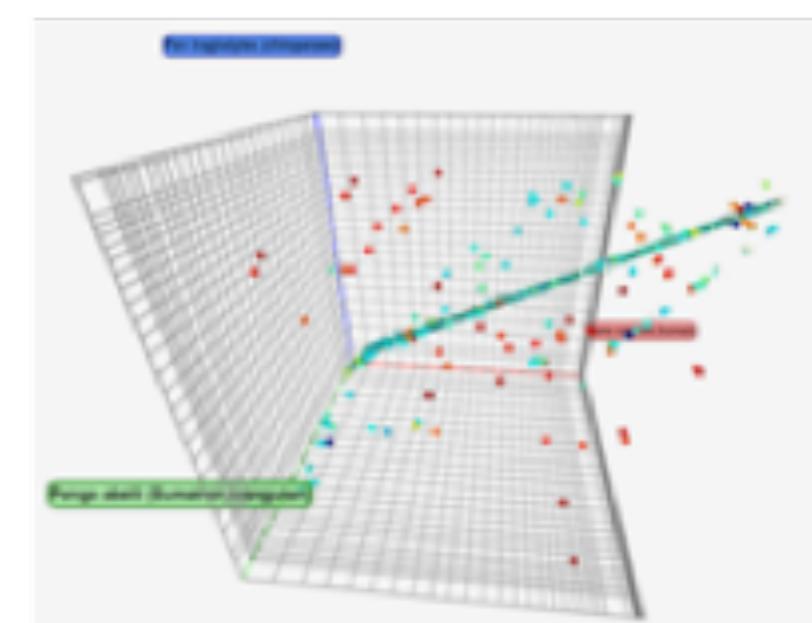
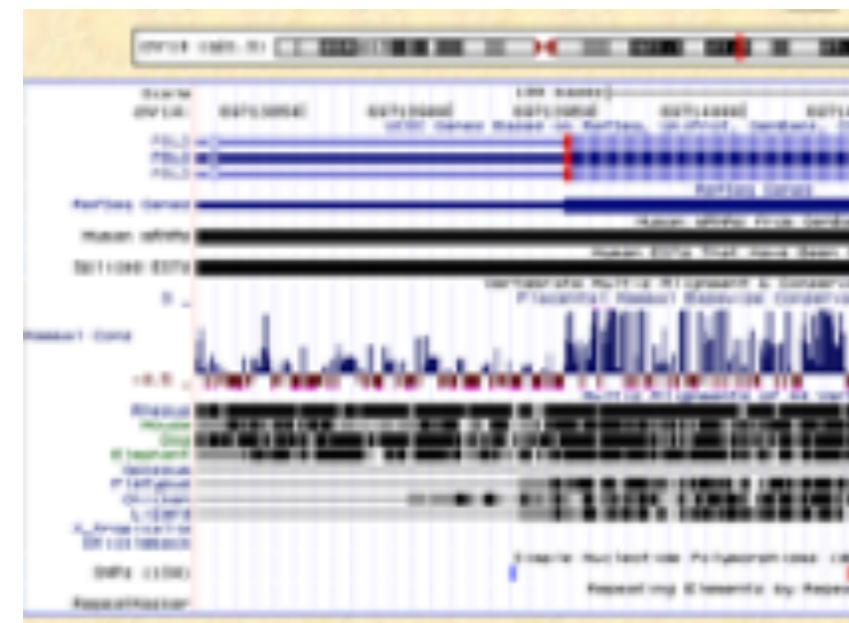


# Computational Genomics

## Uploading Data Into Galaxy



# Uploading Data Into Galaxy

## [Download FileZilla](#)

The screenshot shows the official website for FileZilla at <https://filezilla-project.org>. The page features a large red header with the FileZilla logo and the tagline "The free FTP solution". A navigation menu on the left includes links for Home, FileZilla (Features, Screenshots, Download, Documentation, FileZilla Pro), FileZilla Server (Download), Community (Forum, Wiki), General (FAQ, Support, Contact, License, Privacy Policy, Trademark Policy), Development (Source code, Nightly builds, Translations, Version history, Changelog, Issue tracker), and Other projects (libfilezilla, Octochess). Sponsors are listed at the bottom left, including NDC HOST. The main content area has an "Advertisement" for inmotion hosting with a deal to buy a Power Plan and save over \$200 from 11/22 - 12/7. Below the ad, the "Overview" section welcomes visitors to the homepage, mentioning the FileZilla Client (supporting FTP, FTPS, SFTP), FileZilla Pro (supporting WebDAV, Amazon S3, Backblaze B2, Dropbox, Microsoft OneDrive, Google Drive, Microsoft Azure Blob and File Storage, and Google Cloud Storage), and FileZilla Server. It also notes documentation for compilation and nightly builds. A "Quick download links" section offers "Download FileZilla Client" and "Download FileZilla Server" for all platforms. A note says to pick the client for file transfer and the server for making files available to others. The "News" section highlights three recent releases: FileZilla Server 1.3.0 (February 14, 2022), FileZilla Client 3.58.0 (February 11, 2022), and FileZilla Client 3.58.0-rc1 (February 3, 2022). Each news item lists "New features" and "Bugfixes and minor changes". An advertisement for PRISMA CLOUD | bridgecrew's "CODE TO CLOUD VIRTUAL SUMMIT" is visible on the right side.

**FileZilla - The free FTP solution**

<https://filezilla-project.org>

# FileZilla

The free FTP solution

Home

**FileZilla**

- Features
- Screenshots
- Download
- Documentation
- FileZilla Pro

**FileZilla Server**

- Download

**Community**

- Forum
- Wiki

**General**

- FAQ
- Support
- Contact
- License
- Privacy Policy
- Trademark Policy

**Development**

- Source code
- Nightly builds
- Translations
- Version history
- Changelog
- Issue tracker

**Other projects**

- libfilezilla
- Octochess

Sponsors:

**FileZilla - The free FTP solution**

Advertisement:

**inmotion hosting**

Buy a Power Plan  
and Save Over \$200

Offer Available on Shared Hosting

11/22 - 12/7

## Overview

Welcome to the homepage of FileZilla®, the free FTP solution. The *FileZilla Client* not only supports FTP, but also FTP over TLS (FTPS) and SFTP. It is open source software distributed free of charge under the terms of the GNU General Public License.

We are also offering *FileZilla Pro*, with additional protocol support for WebDAV, Amazon S3, Backblaze B2, Dropbox, Microsoft OneDrive, Google Drive, Microsoft Azure Blob and File Storage, and Google Cloud Storage.

Last but not least, *FileZilla Server* is a free open source FTP and FTPS Server.

Support is available through our [forums](#), the [wiki](#) and the [bug and feature request trackers](#).

In addition, you will find documentation on how to compile FileZilla and nightly builds for multiple platforms in the development section.

### Quick download links

**Download FileZilla Client**

All platforms

**Download FileZilla Server**

All platforms

Pick the client if you want to transfer files. Get the server if you want to make files available for others.

### News

**2022-02-14 - FileZilla Server 1.3.0 released**

**New features:**

- Configuration wizard to setup passive mode
- Linux: Warn if sysctl knob kernel.yama.ptrace\_scope is 0
- Linux: Refuse to run if sysctl knob fs.protected\_hardlinks is 0

**Bugfixes and minor changes:**

- Admin UI: Rejecting a certificate fingerprint prompt no longer triggers automatic reconnections

**2022-02-11 - FileZilla Client 3.58.0 released**

**Bugfixes and minor changes:**

- More detailed error messages if an XML file known to exist cannot be opened

**2022-02-03 - FileZilla Client 3.58.0-rc1 released**

**New features:**

- Negotiate custom ALPN with FileZilla Server >=1.3.0 during TLS handshake to save some roundtrips during connection establishment

Advertisement:

**PRISMA CLOUD | bridgecrew**

CODE TO CLOUD VIRTUAL SUMMIT

REGISTER NOW

Don't miss the global DevSecOps summit made by practitioners for practitioners. Coming up on March 23 & 24.

# Uploading Data Into Galaxy

## Open FileZilla

The screenshot shows the FileZilla interface with the title "FileZilla" at the top. The "Local site" panel on the left displays the directory structure of "/etc/" with 59 files and 22 directories, totaling 821,780 bytes. The "Remote site" panel on the right shows a table with one row: "Not connected to any server". The bottom navigation bar includes tabs for "Queued files", "Failed transfers", "Successful transfers", and "Queue: empty".

**Local site: /etc/**

- bin
- cores
- > dev
- > etc
- home
- > opt
- > private
- sbin
- > tmp
- > usr
- > var

Filename	Filesize	Filetype	Last modified	Permissions	Own
..					
apache2		Directory	02/06/2022 15:2...		
asl		Directory	02/06/2022 15:2...		
cups		Directory	02/11/2022 11:0...		
defaults		Directory	02/06/2022 15:2...		
emond.d		Directory	02/06/2022 15:2...		
manpaths.d		Directory	02/11/2022 11:0...		
newsyslog.d		Directory	02/06/2022 15:2...		
openldap		Directory	02/06/2022 15:2...		
pam.d		Directory	02/06/2022 15:2...		
paths.d		Directory	02/11/2022 11:0...		
periodic		Directory	02/06/2022 15:2...		
pf.anchors		Directory	02/06/2022 15:2...		
postfix		Directory	02/06/2022 15:2...		
ppp		Directory	02/06/2022 15:2...		
racoon		Directory	02/06/2022 15:2...		
security		Directory	02/06/2022 15:2...		
snmp		Directory	02/06/2022 15:2...		
ssh		Directory	02/11/2022 11:0...		
ssl		Directory	02/06/2022 15:2...		
sudoers.d		Directory	02/06/2022 15:2...		
uucp		Directory	02/06/2022 15:2...		
wfs		Directory	02/06/2022 15:2...		

59 files and 22 directories. Total size: 821,780 bytes

**Remote site:**

Filename	Filesize	Filetype	Last modified	Permissions	Own
Not connected to any server					

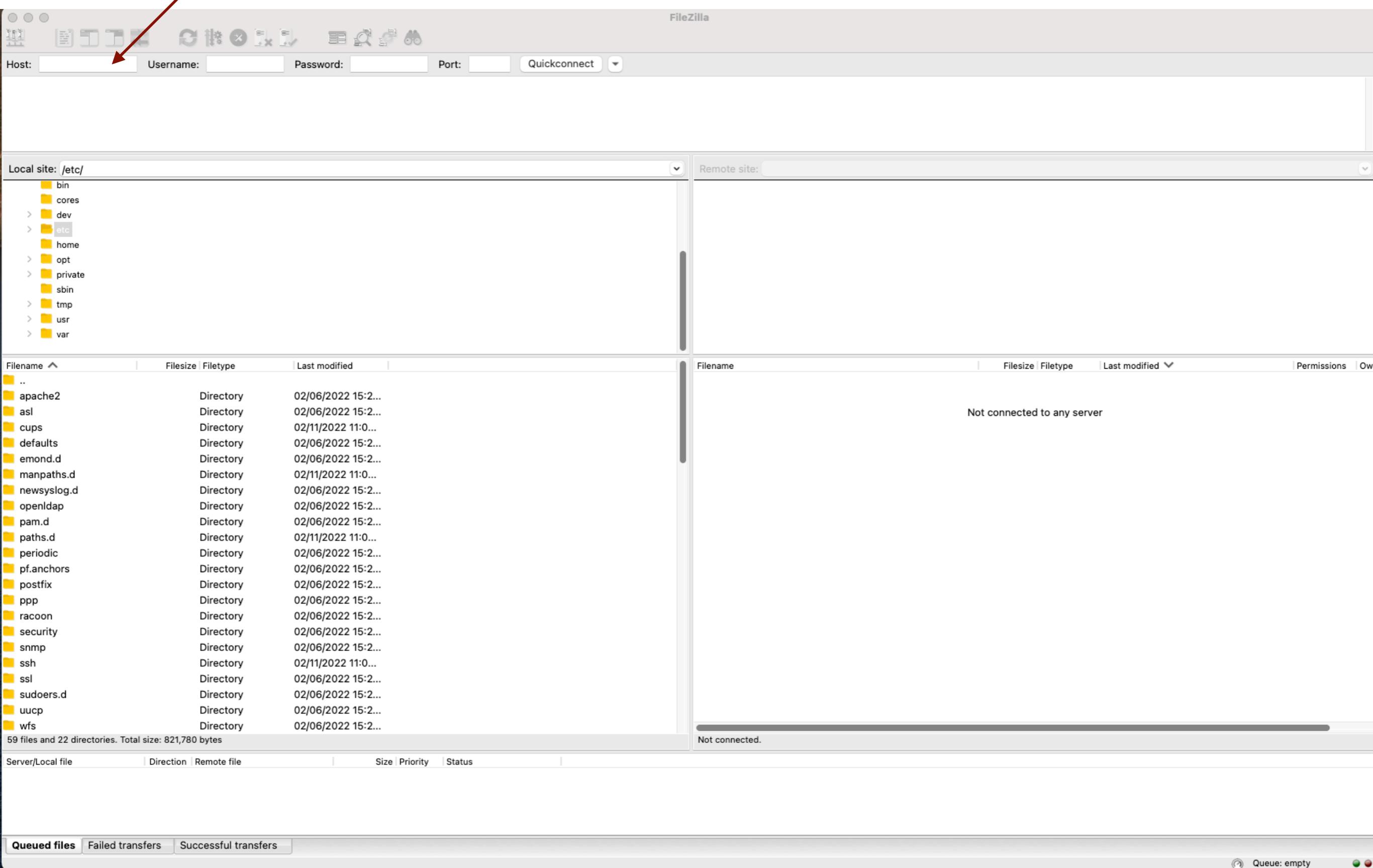
Not connected.

Server/Local file | Direction | Remote file | Size | Priority | Status |

Queued files Failed transfers Successful transfers Queue: empty

# Uploading Data Into Galaxy

Enter: [ftp://ftp.ensembl.org/pub/release-108/fasta/homo\\_sapiens/pep/](ftp://ftp.ensembl.org/pub/release-108/fasta/homo_sapiens/pep/)



# Uploading Data Into Galaxy

Go to your Downloads directory

The screenshot shows the FileZilla interface with two panes. The left pane represents the Local site, showing the contents of the user's Downloads directory. The right pane represents the Remote site, showing the structure of the Ensembl FTP server at `/pub/release-105/fasta/homo_sapiens/pep`. A red arrow points from the text "Go to your Downloads directory" to the "Downloads" folder in the Local site pane.

**Local site:** /Users/raramayo/Downloads/

- ..
- .DS\_Store 6,148 File 02/21/2022 13:4...
- .Rhistory 5,170 File 03/12/2021 09:5...
- .localized 0 File 12/11/2021 18:15...

**Remote site:** /pub/release-105/fasta/homo\_sapiens/pep

- ..
- pub
  - release-105
    - fasta
      - homo\_sapiens

Filename	Filesize	Filetype	Last modified	Permissions	Owner
..					
CHECKSUMS	116	File	06/20/2021	-rw-r--r--	ftp
README	2,432	File	06/18/2021	-rw-r--r--	ftp
Homo_sapiens.GRCh38.pep.all.fa.gz	14,376,754	gz-file	06/18/2021	-rw-r--r--	ftp
Homo_sapiens.GRCh38.pep.ab initio.fa.gz	13,738,129	gz-file	06/18/2021	-rw-r--r--	ftp

3 files. Total size: 11,318 bytes

4 files. Total size: 28,117,431 bytes

Server/Local file | Direction | Remote file | Size | Priority | Status |

Queued files Failed transfers Successful transfers Queue: empty

# Uploading Data Into Galaxy

Select the desired proteins file

The screenshot shows the FileZilla interface with two panes. The left pane represents the local site, and the right pane represents the remote site.

**Local site:** /Users/raramayo/Downloads/

**Remote site:** /pub/release-105/fasta/homo\_sapiens/pep

A red arrow points from the text "Select the desired proteins file" to the "homo\_sapiens" folder in the remote site tree.

**Local Site (Left Pane):**

Filename	Filesize	Filetype	Last modified
..			
.DS_Store	6,148	File	02/21/2022 13:4...
.Rhistory	5,170	File	03/12/2021 09:5...
.localized	0	File	12/11/2021 18:15...

3 files. Total size: 11,318 bytes

**Remote Site (Right Pane):**

Filename	Filesize	Filetype	Last modified	Permissions	Owner
..					
CHECKSUMS	116	File	06/20/2021	-rw-r--r--	ftp
README	2,432	File	06/18/2021	-rw-r--r--	ftp
Homo_sapiens.GRCh38.pep.all.fa.gz	14,376,754	gz-file	06/18/2021	-rw-r--r--	ftp
Homo_sapiens.GRCh38.pep.ab initio.fa.gz	13,738,129	gz-file	06/18/2021	-rw-r--r--	ftp

4 files. Total size: 28,117,431 bytes

Server/Local file | Direction | Remote file | Size | Priority | Status |

Queued files Failed transfers Successful transfers

Queue: empty

# Uploading Data Into Galaxy

## Download file

The screenshot shows the FileZilla interface with two panes. The left pane displays the local site's file structure, and the right pane displays the remote site's file structure. A red arrow points from the text "Download file" at the top to the "Selected 1 file" message in the bottom right of the right pane, indicating the current operation.

**Host:** ftp.ensembl.org **Username:** **Password:** **Port:** **Quickconnect**

**Error:** Disconnected from server  
Status: Resolving address of ftp.ensembl.org  
Status: Connecting to 193.62.193.139:21...  
Status: Connection established, waiting for welcome message...  
Status: Insecure server, it does not support FTP over TLS.  
Status: Logged in  
Status: Starting download of /pub/release-105/fasta/homo\_sapiens/pep/Homo\_sapiens.GRCh38.pep.all.fa.gz

**Local site:** /Users/raramayo/Downloads/

**Remote site:** /pub/release-105/fasta/homo\_sapiens/pep

Filename	Filesize	Filetype	Last modified	Permissions	Owner
..					
.DS_Store	6,148	File	02/21/2022 13:4...		ftp
.Rhistory	5,170	File	03/12/2021 09:5...		ftp
.localized	0	File	12/11/2021 18:15...		ftp

3 files. Total size: 11,318 bytes

Server/Local file	Direction	Remote file	Size	Priority	Status
ftp.ensembl.org					
/Users/raramayo/Down.	<<--	/pub/release-105/fasta/hom.	14,376,754	Normal	Transferring
	00:00:06 elapsed	00:00:03 left	76.5%	11,010,048 bytes (2.2 MiB/s)	

Queued files (1) Failed transfers Successful transfers

Selected 1 file. Total size: 14,376,754 bytes

Queue: 13.8 MiB

# Uploading Data Into Galaxy

## Download file

ftp.ensembl.org - FileZilla

Status: Resolving address of ftp.ensembl.org  
Status: Connecting to 193.62.193.139:21...  
Status: Connection established, waiting for welcome message...  
Status: Insecure server, it does not support FTP over TLS.  
Status: Logged in  
Status: Starting download of /pub/release-105/fasta/homo\_sapiens/pep/Homo\_sapiens.GRCh38.pep.all.fa.gz  
Status: File transfer successful, transferred 14,376,754 bytes in 7 seconds

Local site: /Users/raramayo/Downloads/

Remote site: /pub/release-105/fasta/homo\_sapiens/pep

Download file

Filename | Filesize | Filetype | Last modified

Filename	Filesize	Filetype	Last modified
..			
.DS_Store	6,148	File	02/21/2022 13:4...
.Rhistory	5,170	File	03/12/2021 09:5...
.localized	0	File	12/11/2021 18:15...
Homo_sapiens.GRCh...	14,376,754	gz-file	02/21/2022 17:1...

4 files. Total size: 14,388,072 bytes

Selected 1 file. Total size: 14,376,754 bytes

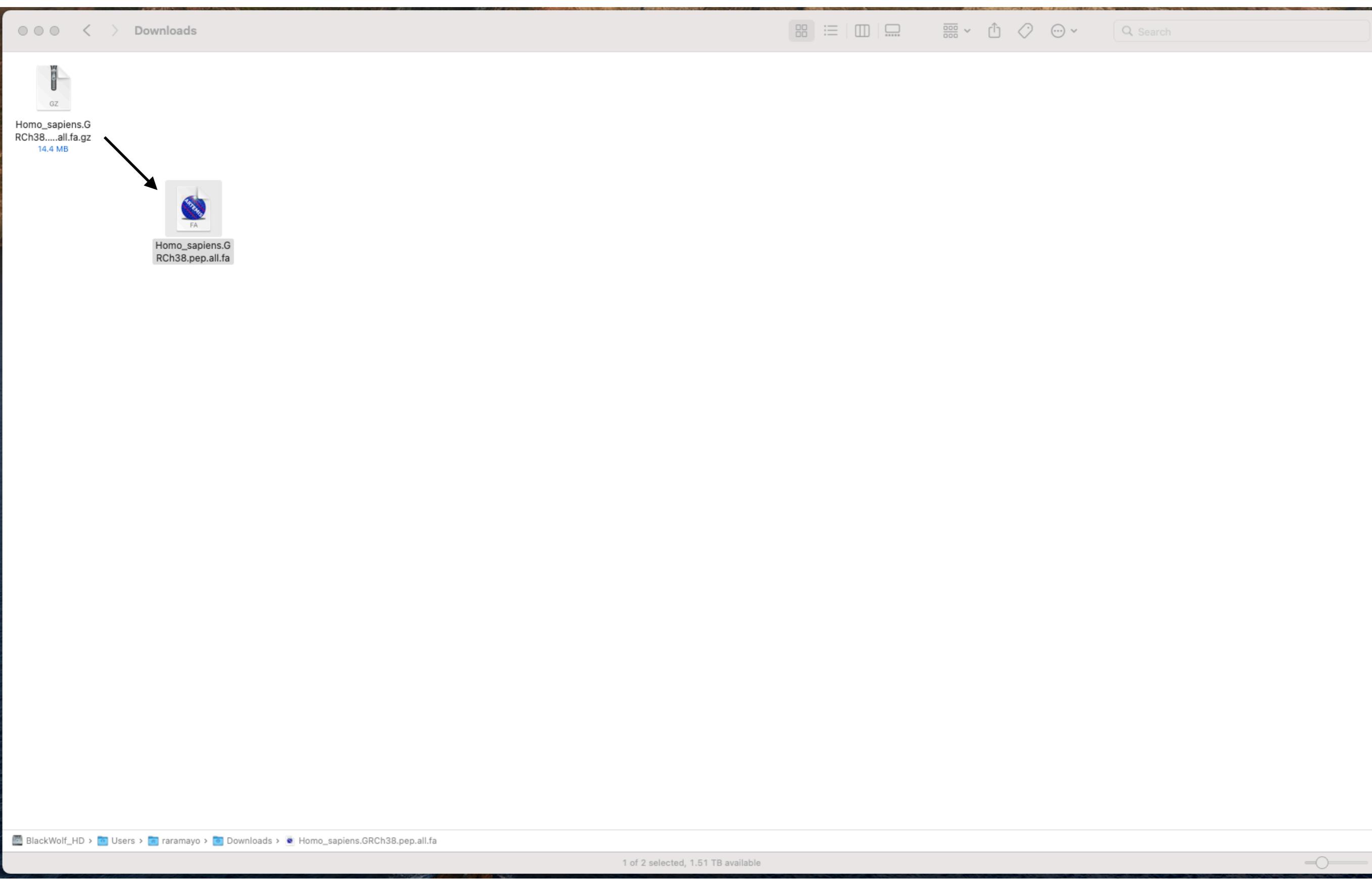
Server/Local file | Direction | Remote file | Size | Priority | Status

Queued files Failed transfers Successful transfers (1) Queue: empty

A red arrow originates from the text "Selected 1 file. Total size: 14,376,754 bytes" in the bottom status bar and points towards the "Homo\_sapiens.GRCh..." file entry in the local site's file list.

# Uploading Data Into Galaxy

## Decompress file



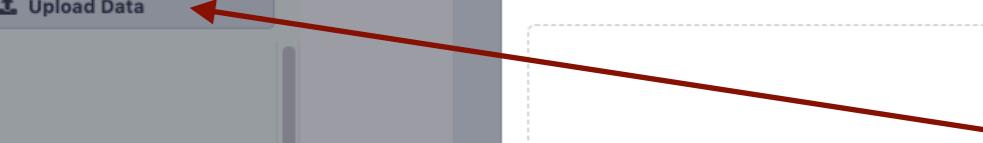
# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Using 0%

Tools

search tools  x

Upload Data 

HPRC

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Send Data

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Lift-Over

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BED

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Multiple Alignments

NCBI BLAST+

Mapping

SAM/BAM

Assembly

FASTQ Quality Control

FASTA/FASTQ

RNA-seq

CD-HIT

Datamash

EMBOSS

MUMmer4

Nanopore

Workflow Visualize Shared Data Admin Help User

Download from web or upload from disk

Regular Composite Collection Rule-based

## Upload file into Kaiser

Drop files here

Type (set all): Auto-detect  Genome (set all): unspecified (?)

Start Pause Reset Close



Take an interactive tour: [Galaxy UI](#) [History](#) [Window Manager](#) [Deferred Datasets](#)

Galaxy is an open platform for supporting data intensive research. Galaxy is developed by The Galaxy Team with the support of many contributors.

The Galaxy Project is supported in part by NHGRI, NSF, The Huck Institutes of the Life Sciences, The Institute for CyberScience at Penn State, and Johns Hopkins University.

History

search datasets  ? x

L04-B

(empty)

This history is empty. You can load your own data or get data from an external source

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Workflow Visualize Shared Data Admin Help User Using 0%

Tools

search tools

Upload Data

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Download from web or upload from disk

Downloads

Search

Name

Size

Kind

Date Added

Homo\_sapiens.GRCh38.pep.all.fa

82.9 MB sequence Jan 26, 2023 at 17:38

Homo\_sapiens.GRCh38.pep.all.fa.gz

14.5 MB gzip compressed archive Jan 26, 2023 at 17:38

Cancel Open

History

search datasets

L04-B

(empty)

This history is empty. You can load your own data or get data from an external source

Upload file into Kaiser

A red arrow points from the text "Upload file into Kaiser" to the "Homo\_sapiens.GRCh38.pep.all.fa" file entry in the list.

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Using 0%

Tools

search tools  x

Upload Data

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Workflow Visualize Shared Data Admin Help User

Download from web or upload from disk

Regular Composite Collection Rule-based

You added 1 file(s) to the queue. Add more files or click 'Start' to proceed.

Name	Size	Type	Genome	Settings	Status
Homo_sapiens.GRC	79.1 MB	Auto-de...	unspecified (?)		0%

**Upload file into Kaiser**

Type (set all): Auto-detect Genome (set all): unspecified (?)

Start Pause Reset Close

Take an interactive tour: [Galaxy UI](#) [History](#) [Window Manager](#) [Deferred Datasets](#)

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History

search datasets

L04-B

(empty)

This history is empty. You can load your own data or get data from an external source

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Using 0%

Tools

search tools  x

**Upload Data**

HPRC

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Workflow Visualize Shared Data Admin Help User

Download from web or upload from disk

Regular Composite Collection Rule-based

Please wait... 1 out of 1 remaining.

Name	Size	Type	Genome	Settings	Status
Homo_sapiens.GRC	79.1 MB	Auto-de...	unspecified (?)		88%

Type (set all): Auto-detect Genome (set all): unspecified (?)

Choose local files Paste/Fetch data Start Pause Reset Close



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History

search datasets

L04-B  
(empty)

This history is empty. You can load your own data or get data from an external source

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Using 0%

Tools

search tools  x

**Upload Data**

HPRC

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Regular Composite Collection Rule-based

Name	Size	Type	Genome	Settings	Status
Homo_sapiens.GRC	79.1 MB	Auto-de...	unspecified (?)		100%

Type (set all): Auto-detect Genome (set all): unspecified (?)

Start Pause Reset Close

Take an interactive tour: [Galaxy UI](#) [History](#) [Window Manager](#) [Deferred Datasets](#)

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History

search datasets  ? x

L04-B

1 shown  
79.08 MB

1: Homo\_sapiens.GRCh3  
8.pep.all.fa

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Workflow Visualize Shared Data Admin Help User

Using 0%

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Best Practices for Kaiser Galaxy

- Kaiser Galaxy (docs, slides) is configured for teaching purposes so all users have a file quota of 1TB. How to permanently delete nonessential files.
- Only certain tools that support multi-core processing have the Job Resources Parameters option which allow you to select cores, memory and time.
  - The default job resource parameters for all tools is 1 core with 7GB memory for 24 hours (24 SUs).
    - Configuring a job to use 48 cores for 1 hour requires 48 SUs. (48 cores for 168 hours = 7872 SUs).
    - Configuring a job to use 360GB memory for 1 hour requires 48 SUs. (360GB memory for 168 hours = 7872 SUs).
    - If a tool you used failed because it needs the Job Resource Parameters option added, contact the HPRC helpdesk.

History

search datasets

L04-B

1 shown

79.08 MB

1: Homo\_sapiens.GRCh3  
8.pep.all.fa



Take an interactive tour: Galaxy UI History Window Manager Deferred Datasets

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HPRC Kaiser Galaxy

Workflow Visualize Shared Data Admin Help User

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Edit Dataset Attributes

Attributes Convert Datatypes Permissions

Name: Hs\_EnsRel108\_Proteins

Info: uploaded fasta file

Annotation: Add an annotation or notes to a dataset; annotations are available when a history is viewed.

Database/Build: unspecified (?)

History

search datasets

L04-B

1 shown  
79.08 MB

1: Homo\_sapiens.GRCh3 8.pep.all.fa

Rename file: **Hs\_EnsRel108\_Proteins**

# Uploading Data Into Galaxy

HPRC Kaiser Galaxy

Workflow Visualize Shared Data Admin Help User

Using 0%

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    - Configuring a job to use 360GB memory for 1 hour requires 48 SUs. (360GB memory for 168 hours = 7872 SUs).
    - If a tool you used failed because it needs the Job Resource Parameters option added, contact the HPRC helpdesk.

History

search datasets

L04-B

1 shown

79.08 MB

1: Hs\_EnsRel108\_Proteins

Using 0%



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