

About illumina Basespace

Basespace: Platform for storage, analysis

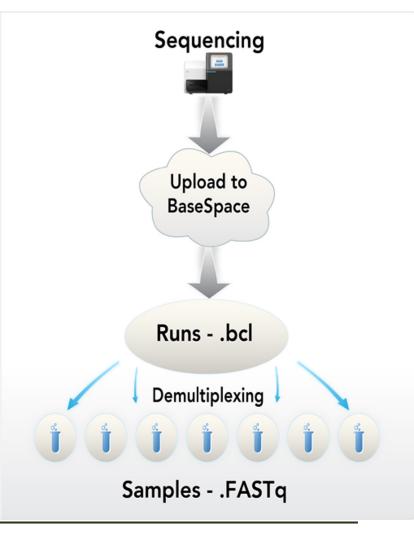
and sharing genetic data



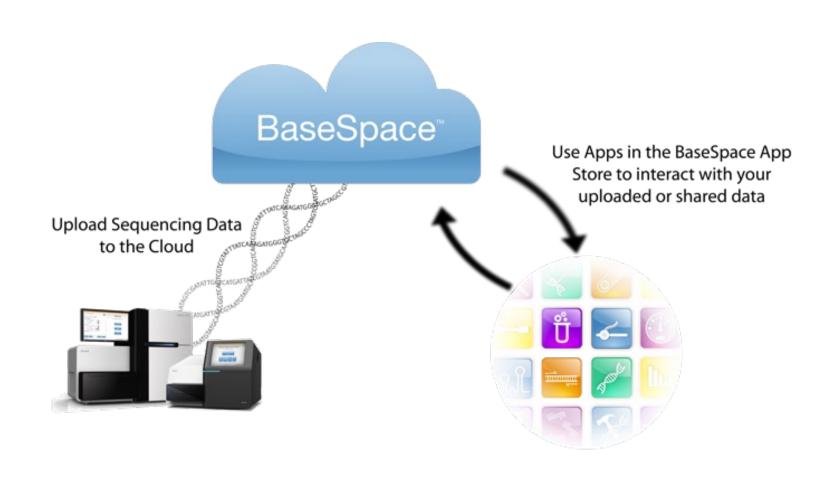
Monitor and check the quality of your Run

Sequencing data is uploaded to BaseSpace and becomes a Run

Runs (.bcl) files are demultiplexed into Samples (.FASTq) files



About Illumina BaseSpace







- Enables data management and simplified Bioinformatics for labs getting started and for rapidly scaling NGS operations
- Key Features:
 - Secure
 - Tight instrument Integration
 - Easy sharing and collaboration
 - Public and Private analysis Tools
 - Advanced automation and integration

Using Base Space sequence hub

Illumina BaseSpace account required

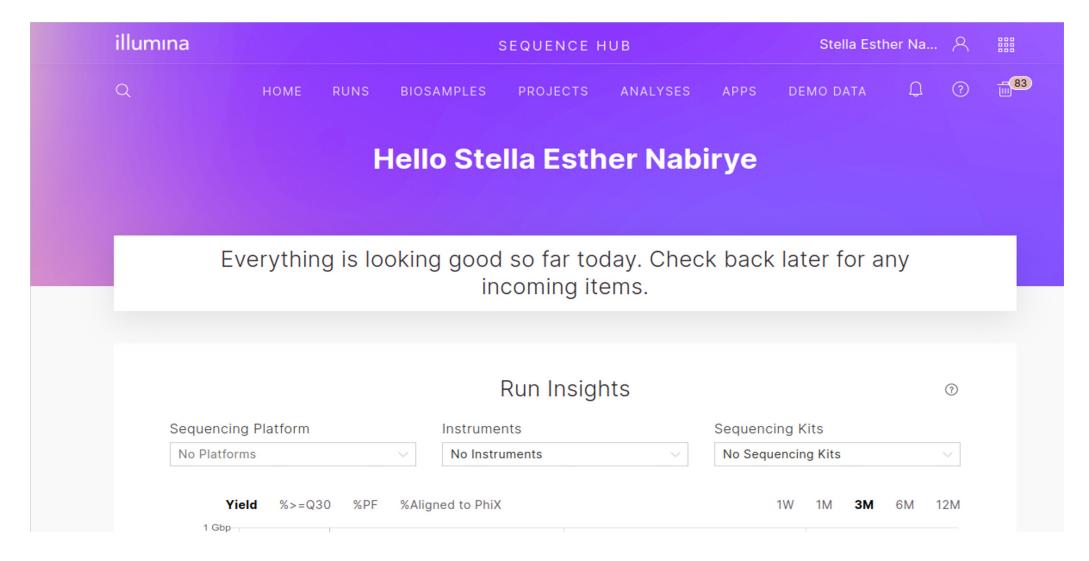
Currency is icredits

Free trial for 30 days – 250 icredits

Apps – Some free / Some require icredits

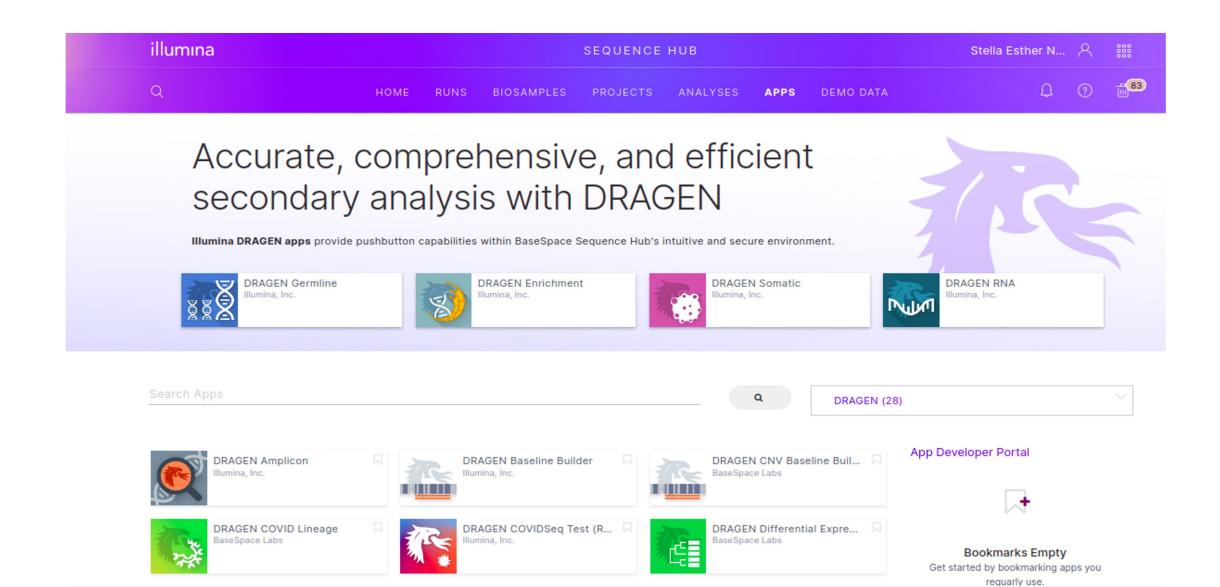
Storage – 1TB available free. Payment for additional storage

BaseSpace Sequence Hub Interface

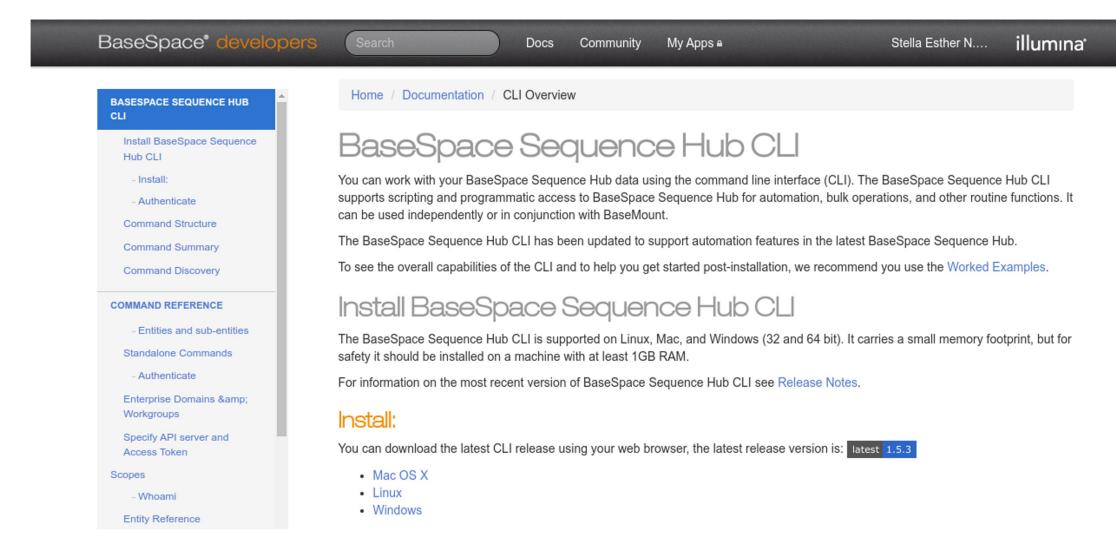


https://basespace.illumina.com/dashboard

BaseSpace Sequence Hub Apps



Getting Started: Install



Using the BS CLI file

- 1. Log into your Basespace account
- 2. Go to the projects tab, and create a new project.
- 3. Once done, log out of Basespace.
- 4. Download the BS CLI file from

https://developer.basespace.illumina.com/docs/content/documentation/cli/cli-overview.

- 5. Create a new folder on your computer, and save the bs.exe (downloaded in step 4) in this new folder.
- 6. Save all your FASTQ files in the same folder.
- 7. Open the command prompt in Windows
- 8. Change the directory to where the bs.exe file is saved by typing in cd <file path>

Using the BS CLI file

9. Authorize your basespace account as follow:

stella-nabirye@latitude:~/Desktop/VSP_Fastq\$ **bs auth**

Please go to this URL to authenticate:

https://basespace.illumina.com/oauth/device?code=HbTQF

Welcome, Stella Esther Nabirye

- 10. Copy and paste the URL from above into your web browser and login to your Basespace account to allow BS CLI access to it.
- 11. Confirm the account is correct by typing in the following:

stella-nabirye@latitude:~/Desktop/VSP_Fastq\$ **bs whoami**

Using the BS CLI file

- 12. Confirm the projects available in Basespace and obtain the ID for the project that will be used for your FASTQ upload.
- \$ bs list project
- 13. Finally, type in the command below to upload the FASTQ files.

Example: \$ bs upload dataset -p 366512146 -- recursive

/home/stella-nabirye/Desktop/VSP_Fastq

Pipelines for VSP data analysis



Illumina DRAGEN Metagenomics



Illumina DRAGEN Microbial Enrichment

References

https://developer.basespace.illumina.com/doc
s/content/documentation/cli/cli-overview