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# **score Documentation**

***Release 1.4.0***

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introduction.rst



### 1.1 What is Score?

Score facilitates the transfer and storage of your data seamlessly for cloud-based projects. File bundling, resumable downloads, and BAM/CRAM slicing make data transfer fast and smooth.

The method with which Score facilitates the transfer of data is through the use of pre-signed URLs. As such, Score can be thought of as a broker between an object storage system and user authorization system, validating user access and generating signed URLs for object access.

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### 1.2 Features

- Multipart Uploads and Downloads (high performance transfers)
- Support for AWS S3, Azure Storage, Google Cloud Storage
- Slicing of BAM and CRAM files by genomic region
- Client includes some samtools functionality such as viewing reads from a BAM
- MD5 validation of uploads and downloads
- ACL security using OAuth2 and scopes based on study codes
- Integrates with the SONG metadata system for data book keeping and consistency
- REST API with swagger docs

### 1.3 Projects Using Score

1. **Cancer Collaboratory - Toronto:** <https://storage.cancercollaboratory.org/swagger-ui.html>

2. AWS - Virginia: <https://virginia.cloud.icgc.org/swagger-ui.html>

## 1.4 Getting Started

### 1.4.1 Client

The Score Client is available to download as both a docker container or as a Java CLI application.

The docker container can be pulled from here:

```
docker pull overture/score
```

For the Java CLI, use the following steps:

```
wget -O score-client.tar.gz https://artifacts.oicr.on.ca/artifactory/dcc-release/bio/
↪overture/score-client/[RELEASE]/score-client-[RELEASE]-dist.tar.gz

tar xvzf score-client.tar.gz

echo export PATH=$(pwd)/score-client-x.x.x/bin:$PATH >> ~/.bashrc

source ~/.bashrc

# you will then be able to use it by running the following command anywhere is the_
↪system
score-client
```

### 1.4.2 Server

To be Added...

## 1.5 License

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## CHAPTER 2

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### Indices and tables

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- `genindex`
- `modindex`
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