

# PROJECT1-SETUP

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## 1 Project 1 - Installing required tools

Project 1 will require the following tools:

- [ExpansionHunter](#)
- [REViewer](#)
- [samtools](#)

Below shows how to install each of these and test that it is working on your datahub account.

You'll also need to update your PATH variable:

```
export PATH=$PATH:$HOME/bin
```

## 2 ExpansionHunter

```
# Download the tarball with the precompiled binary
```

```
wget https://github.com/Illumina/ExpansionHunter/releases/download/v5.0.0/ExpansionHunter-v5.0.0-linux_x86_64.tar.gz
```

```
# Unzip
```

```
tar -xzf ExpansionHunter-v5.0.0-linux_x86_64.tar.gz
```

```
# Check that it works
```

```
ExpansionHunter-v5.0.0-linux_x86_64/bin/ExpansionHunter --help
```

```
# Optionally, copy to a place on your PATH
```

```
mkdir ~/bin
```

```
cp ExpansionHunter-v5.0.0-linux_x86_64/bin/ExpansionHunter ~/bin/
```

```
ExpansionHunter --help
```

## 3 REViewer

```
# Download and unzip the release
```

```
wget https://github.com/Illumina/REViewer/releases/download/v0.2.7/REViewer-v0.2.7-linux_x86_64.tar.gz
```

```
bgzip -d REViewer-v0.2.7-linux_x86_64.gz
```

```
# Make executable
```

```
chmod +x REViewer-v0.2.7-linux_x86_64
```

```
# Test it works
./REViewer-v0.2.7-linux_x86_64

# Optionally add to your PATH
cp REViewer-v0.2.7-linux_x86_64 ~/bin/REViewer
REViewer
```

## 4 Samtools

```
# Download samtools release
wget https://github.com/samtools/samtools/releases/download/1.20/samtools-1.20.tar.bz2
tar -xjf samtools-1.20.tar.bz2
cd samtools-1.20

# Configure and compile
./configure --prefix=$HOME
make -j
make install
```