

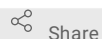


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a-commands and Allas

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1 Works for me



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ABSTRACT

Main interactions between Puhti and the Allas storage service at CSC using the a-command tools.

For more detailed documentations on Allas and a-commands:

https://docs.csc.fi/data/Allas/using_allas/a_commands/

PROTOCOL CITATION

Alise J Ponsero 2021. a-commands and Allas. **protocols.io**
<https://protocols.io/view/a-commands-and-allas-bvmgn43w>



KEYWORDS

HPC computing

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BEFORE STARTING

You will need an account at CSC, with an access to Puhti and to Allas.

<https://my.csc.fi/welcome>

Connecting to Allas

- 1 In order to interact with Allas, especially to push and pull large files, it is best to request an interactive node.

After login into Puhti, type the following to request an interactive node.

```
sinteractive
```

Follow the instructions (choice of a project for the billing) and get an interactive node!

- 2 Then we need to load and configure Allas.

```
module load Allas
```

Then

```
Allas-conf
```

Follow the instructions (password and project name for billing units)

list data stored in Allas

- 3 To list all buckets stored in Allas, type

```
a-list
```

If you want to display the content of a particular bucket, use the same function followed by the name of the bucket

```
a-list my_bucket
```

Push data to Allas

- 4 In order to push data to Allas, we can use the command a-put.

Navigate to the folder or file you want to push to Allas, and type:

```
a-put my_file -b my_bucket
```

If the name of the bucket after the -b parameter is new, a new bucket with that name will be automatically created.

You can push a complete folder using the same command:

```
a-put my_folder -b my_bucket
```

NOTE: If you are pushing a complete folder, it will be zipped before being sent to Allas. You won't be able to list the content of that folder anymore using the a-list function!

get data back from Allas

- 5 You can retrieve a file or folder stored in Allas using the a-get command

```
a-get my_bucket/my_file
```

If you pushed a complete folder, you can retrieve the complete folder by the same method

```
a-get my_bucket/my_folder
```

- 6 If you need to retrieve the whole bucket you have stored in Allas, you need a bit more work. You need first to list the content of the bucket using the a-list command and then read the list in a loop and download one by one the content.

```
#make a list of objects
a-list my_bucket > list.txt

#use the list in for loop
for ob in $(cat list.txt)
do
  a-get $ob
done

#remove the object list
rm list.txt
```