

CPP Upstart

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Open this file:
richard.kompiler.org/das4.pdf

1 DAS Tutorial

DAS4 account

1. Get your username and password for the DAS4 cluster:
Blackboard → C&PP → Course Material → DAS4 Account Request, [here](#).
You will receive a username and password by email, note that this is a manual process so it can take a couple of minutes.
2. Follow the instructions in the next section, after that you can login and follow the instructions of [das4_instructions.pdf](#), also available in:
C&PP → Course Material

Login with SSH, the good way

Add your public key to the [./ssh/authorized_keys](#) of the DAS4 cluster.

1. If you don't already have a public key, use `ssh-keygen` to generate a key-pair.

Listing 1: Executing `ssh-keygen`

```
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/richard/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/richard/.ssh/id_rsa
Your public key has been saved in /home/richard/.ssh/id_rsa.pub.
...
...
...
```

2. Before you login, create a ssh config first, this releases you of the burden of entering your password every time when starting a ssh session. Open or create the `./ssh/config` file and create the following entries:

Listing 2: `/.ssh/config`

```
host das4
hostname fs2.das4.science.uva.nl
user <your_assigned_username>
identityfile ~/.ssh/id_rsa
```

3. Execute: `$ ssh-copy-id das4`
This copies your public-key to the DAS4 cluster, this will ask you **once** for your password but never again.
4. Login: `$ ssh das4`

Gitlab

We recommend using Gitlab to keep track of the changes of your code, this means that the DAS4 needs permissions to your gitlab repository. Do the steps of creating a **ssh key** again and add the public-key to your Gitlab account. This then allows you to **clone, push and pull** from your repository.

2 Known Issues

1. Don't name your binary **test**, not only is this not a very good name for your final assignment but it will