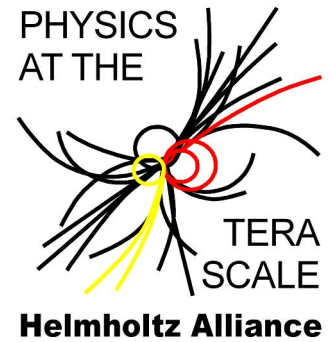


Detector Understanding with First LHC Data

NAF Instructions for ATLAS User



Login into the NAF ATLAS work group server:

The following steps are needed to log into the NAF:

- Setup Grid UI
- Create voms proxy in RFC format: `voms-proxy-init -voms atlas:/atlas/de -rfc`
- Log on to the NAF: `gsissh -Y atlas.naf.desy.de`

ATLAS software setup:

Most of the tutorials will be working with in the ATLAS release 15.1.0 or 15.2.0 using plain `athena` and `AthenaROOTAccess`.

Prepare your account by updating your `requirements` file in `~/cmthome` and the CMT version used in the `~/cmthome` directory. The easiest way is to remove the `~/cmthome` directory completely and create a new one by executing:

```
ini atlas
atlas_setup.py --create
```

Test, if everything is working by running the `athena hello world` example:

```
source ~/cmthome/setup.sh -tag=15.1.0,local
athena.py AthExHelloWorld/HelloWorldOptions.py
```

The NAF `requirements` file add two additional tags in addition to the standard tags described on the AtlasLogin TWiki:

local if `local` is specified, the ATLAS software is taken from a local disc instead from AFS. This will reduce the compile time and is necessary during the full time of the tutorial. This will only work for release 15.1.0 and 15.2.0.

hereTest: if `hereTest` is specified, the `TestArea` will be set to the current working directory.

SubVersion checkout from CERN:

If you want to check out packages from the CERN SubVersion (SVN) server, you need a Kerberos 5 ticket for CERN:

```
kinit username@CERN.CH
```

where `username` is your CERN username. If your CERN username is different from your NAF username you need to tell `ssh` about it.

- Create `ssh` config files if not already there: `touch ~/.ssh/config`
- Add the following two lines to the file `~/.ssh/config`, where `username` should be replaced by your CERN username:

```
Host *.cern.ch
  user username
```

AthenaROOTAccess:

Some of the tutorials will use `AthenaROOTAccess` (ARA) to process data. The following two packages and versions are needed to run ARA in release 15.1.0:

```
AthenaROOTAccess-00-05-46-01 PhysicsAnalysis/AthenaROOTAccess
AthenaROOTAccessExamples-00-00-25 PhysicsAnalysis/AthenaROOTAccessExamples
```

For more details about ARA see <https://twiki.cern.ch/twiki/bin/view/AtlasProtected/AthenaROOTAccess>.

Documentation:

The ATLAS NAF Wiki pages are located at <https://znwiki3.ifh.de/ATLAS/WorkBook/NAF>. The computing tutorial Wiki page can be found at <https://znwiki3.ifh.de/ATLAS/WorkBook/NAF/DUW09Introduction>. For a more general introduction see <https://znwiki3.ifh.de/ATLAS/WorkBook/NAF/GettingStarted>.