

udocker Usage Example

Install by your own:

See [IBERGRID 2019 Tutorial](#), check also [the general udocker tutorials page](#)

Use the already available installation:

```
[user@pauli02 ~]$ module avail

[----- /cvmfs/sw.el7/modules/soft -----]
[ gcc-5.5      matlab/R2018a  trimmomatic-0.33
[ gcc63/mpich-3.2  matlab/R2018b  udocker/1.1.3

[user@pauli02 ~]$ module load udocker

[user@pauli02 ~]$ module list
[Currently Loaded Modulefiles:
[ 1) udocker/1.1.3
[
```

The **udocker** works the same way as the command **docker**, the big difference is that it runs on *user space* and doesn't require special privileges to run, **works everywhere!**. The docker hub repository is available and the user is able pull images from the docker hub repository and also his own images.

For example, search for a **Centos** image:

```
[martinsj@pauli02 ~]$ udocker search centos
[NAME                                OFFICIAL DESCRIPTION
```


Inline general help is available

```
[martinsj@pauli02 ~]$ udocker help
[] Syntax:
[] udocker <command> [command_options] <command_args>
[]
[] Commands:
[] search <repo/image:tag> :Search dockerhub for container images
[] pull <repo/image:tag> :Pull container image from dockerhub
[] images :List container images
[] create <repo/image:tag> :Create container from a pulled image
[] ps :List created containers
[] ...
```

as long as a subcommand specialized help

```
[martinsj@pauli02 ~]$ udocker run --help
[]
[] run: execute a container
[] run [options] <container-id-or-name>
[] run [options] <repo/image:tag>
[] --rm :delete container upon exit
[] --workdir=/home/userXX :working directory set to /home/userXX
[] --user=userXX :run as userXX
[] --user=root :run as root
[] --volume=/data:/mnt :mount host directory /data in /mnt
[] ...
```

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