



```
-s, --silent    Don't print to cli. Verify success using exit code
-h, --help      Print help
-V, --version    Print version
```

The help flag can be specified for both complex and its subcommand.

```
(base) lucask@wks14:~$ complex load -h
Load a named conda environment
```

```
Usage: complex load <NAME>
```

Arguments:

```
<NAME>    Environment name
```

Options:

```
-h, --help      Print help
-V, --version    Print version
```

## complex check

Complex requires a certain set of configurations of your personal conda installation to work properly. The `complex check` command runs a checklist to verify your installation is ready to go and provides instructions if one of the checklist points fails.



When using complex for the first time, it is expected to fail the checklist. You first need to follow the installation steps under **complex setup**.

```
(base) lucask@wks14:~$ complex check
Last update of environment definitions: 03/08/2023 14:36:50
[✓] Your conda path is /home/lucask/miniconda3/bin/conda
[✓] .condarc file is present
[✓] Global environments are present in .condarc
[✓] Global environments are readable
```

## complex setup

The `complex setup` command will modify your conda installation for usage with complex. Please note that this will **alter your .condarc file**.

```
(base) lucask@wks14:~$ complex setup
Last update of environment definitions: 03/08/2023 14:36:50
```

```

Checking if complex is already set up... → Your conda installation is not
set up to use complex
You can find information on setting up complex here:
http://core.izn-ffm.intern/wiki/doku.php?id=howto:globalconda
Complex can perform the setup for you.
  If you have altered your .condarc file, this action is potentially
destructive! Proceed? y/n
y
→ You don't have a .condarc file. Creating one for you...
→ conda config
→ Looking for new .condarc file
[✓] .condarc file is present
→ Loading .condarc as YAML
→ no entry for envs_dirs exists. This is perfect!
Dumping new config:
channels:
- conda-forge
- defaults
envs_dirs:
- /home/worker/envs/

→ Writing config... Done!
→ Setup finished without issues
→ Verifying installation
[✓] Your conda path is /home/lucask/miniconda3/bin/conda
[✓] .condarc file is present
[✓] Global environments are present in .condarc
[✓] Global environments are readable
You are ready to use complex! Goodbye!

```

## complex list

The `list` command returns a list of all available complex environments. This matches the environments described on [Global conda environments](#) page.

```

(base) lucask@wks14:~$ complex list
Last update of environment definitions: 03/08/2023 14:36:50
Tool          | Version | Status  | Stable commands / Autostart
|
taxaminer     | v.0.7.2 | stable  | taxaminer.run
|
phyloprofile  | 3.17    | stable  | bash
/home/worker/utility/runPhyloProfile.sh |
busco         | -       | unstable | busco
|
samtools      | 1.17    | stable  | samtools and subcommands
|

```

## complex load

Finally, `complex load` allows you to reference one of the listed environments by name and returns a command to load it.

```
(base) lucask@wks14:~$ complex load samtools
Last update of environment definitions: 03/08/2023 14:36:50
Looking for samtools... Found it!
[✓] Your conda path is /home/lucask/miniconda3/bin/conda
→ This shell is ready
→ Please run  conda activate /home/worker/envs/samtools to activate.
```

## Running in silent mode / Use in your pipeline

Specifying the silent flag will reduce the output of `complex` or - where applies - discard it completely. `Complex` provides exit codes accordingly. In case of `complex load` it will still provide the command string. This implementation is used by VISUM to always obtain the most up to date path. You can check whether the environment was found using the the exit code.

Type	Silent?	Exit Code
Environment found	yes	0
Environment found	no	0
Environment not found	yes	1
Environment not found	no	0

If it was found, the conda command is forwarded to stdout.

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