



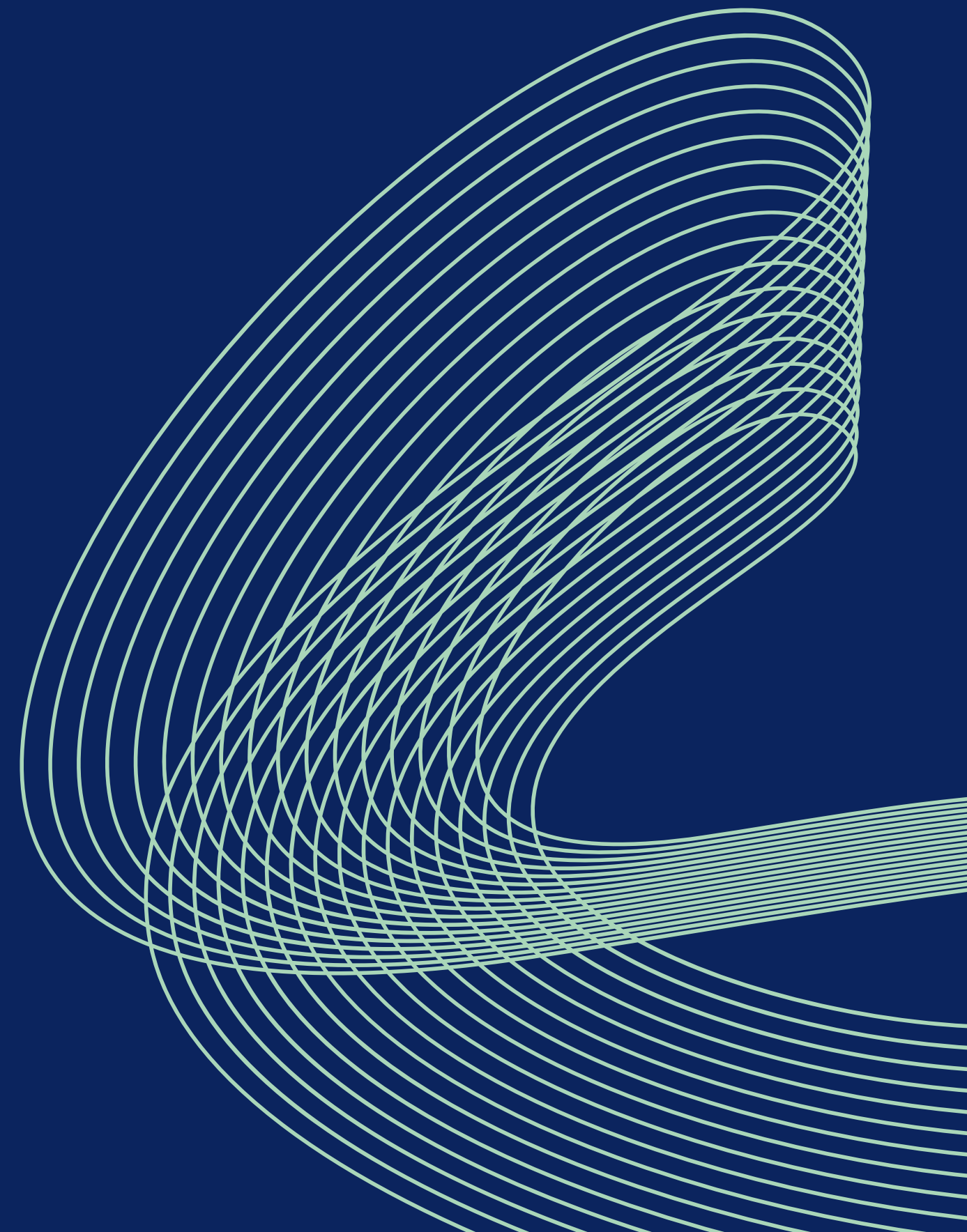
CENTRE FOR  
DEVELOPMENT OF  
ADVANCED COMPUTING

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# MINICONDA

## COMPLETE GUIDE

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# AGENDA

**Introduction**

**Advantages and Disadvantages**

**Miniconda Installation Guide**

**Managing Conda**

**Managing Environments**

**Managing Channels**

**Managing Packages**



# Introduction

**1 :** An open source package and environment management system that runs on Windows, Mac OS and Linux.

**2 :** Miniconda is a minimalistic distribution of the Conda package manager, specifically designed for users who need a lightweight, flexible tool to manage software environments and dependencies.

**3 :** Conda, the core of Miniconda, is a powerful cross-platform package and environment manager.

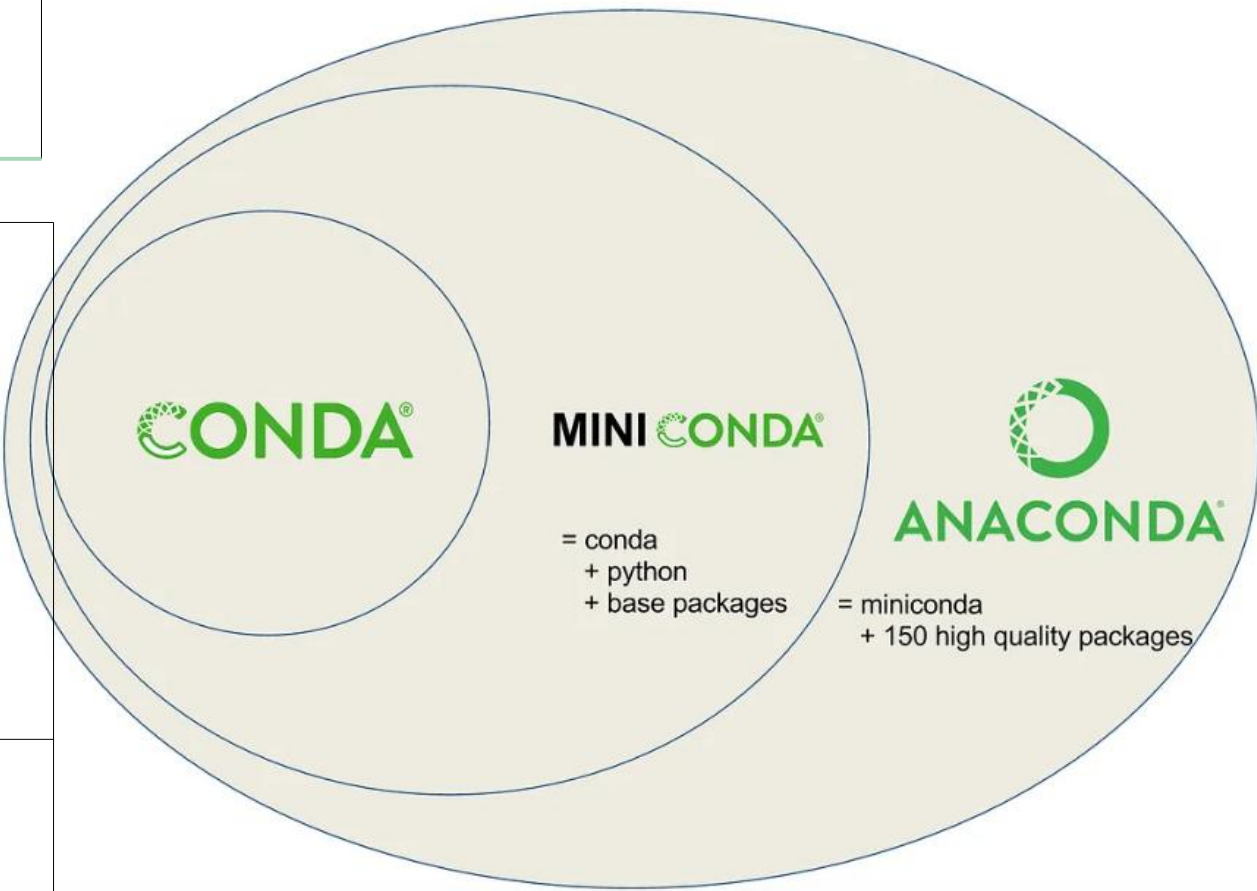
**4 :** Allowing users to build custom environments by installing only the packages they need.

**5 :** Supports the installation of GPU-optimized versions of libraries like TensorFlow, Pytorch and others with CUDA and cuDNN integration.

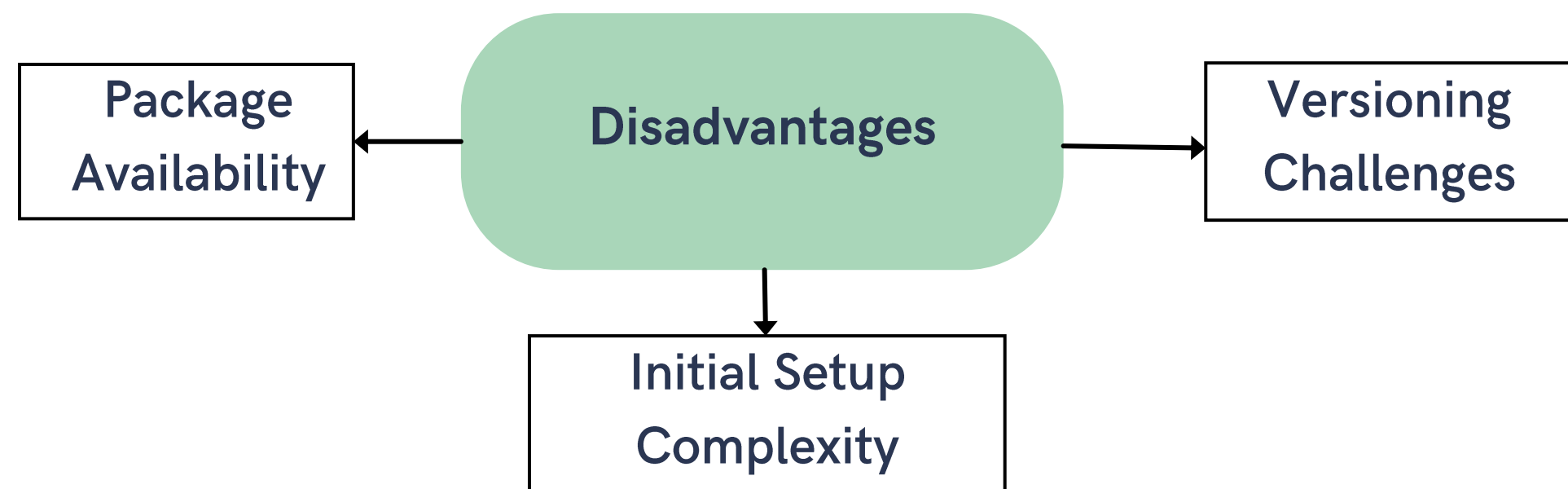
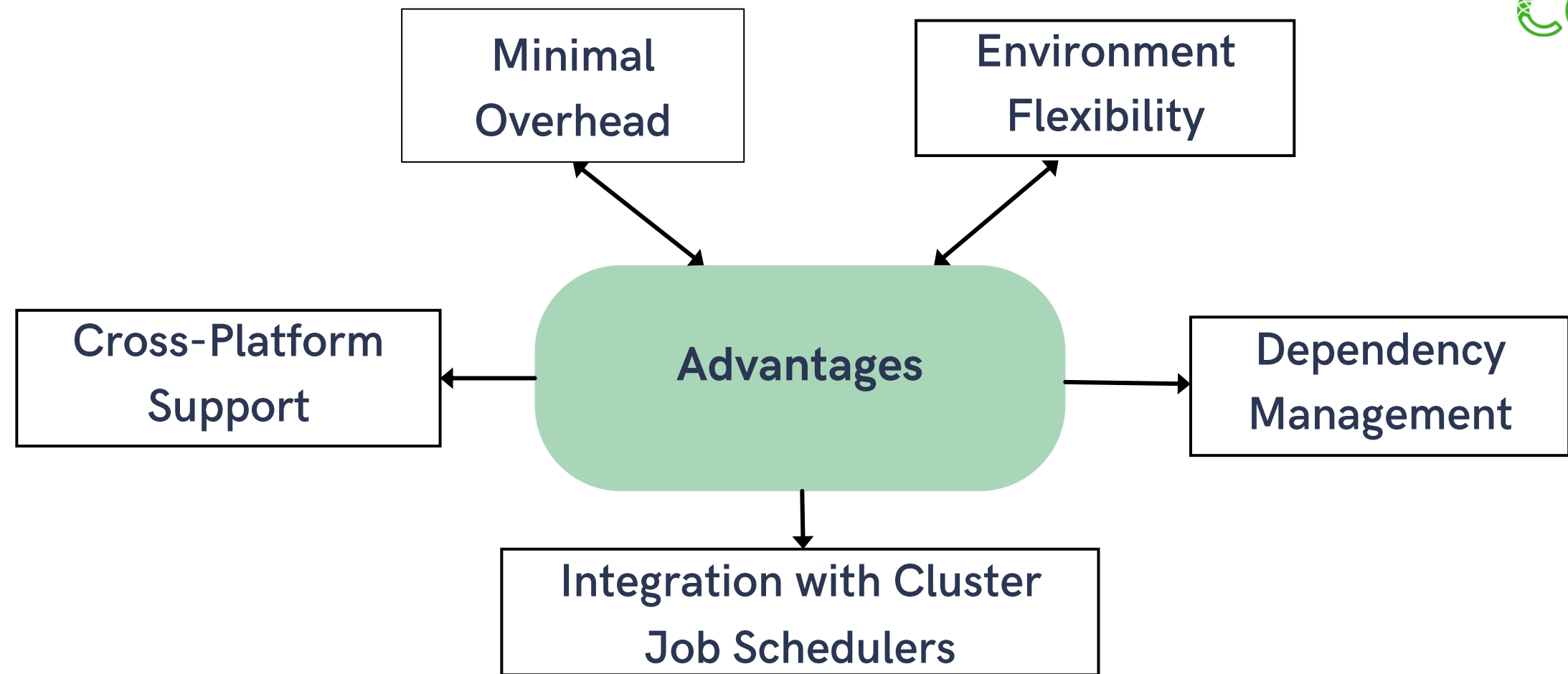
**6 :** System requirements: 400MB disk space and OS

## Installing Conda

- 1. Miniconda (Minimal Installer)
- 2. Anaconda Distribution (Full Package)
- 3. Miniforge (Minimal Installer)



# Advantages and Disadvantages





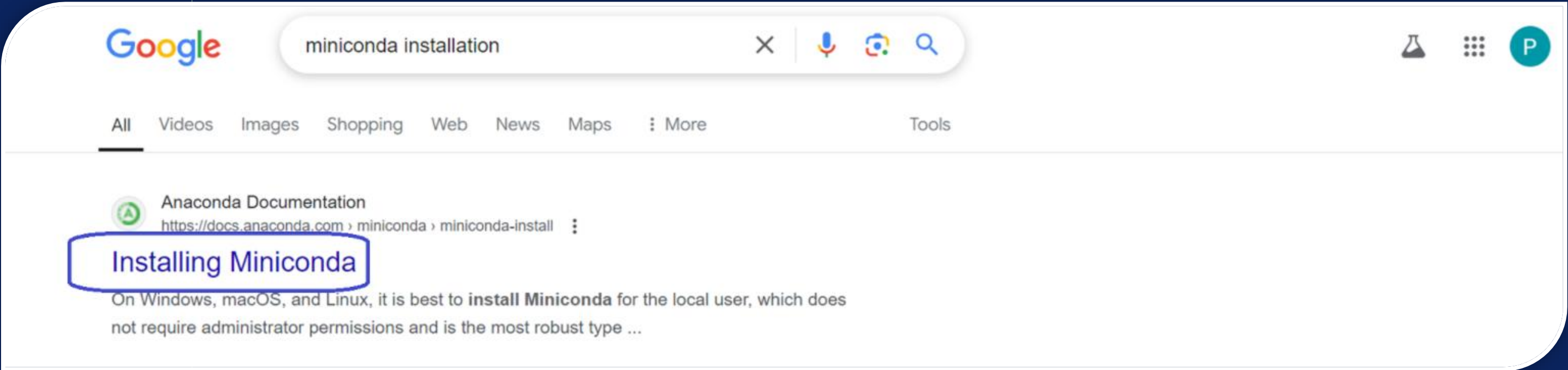


# INSTALLATION GUIDE

## WEB SEARCH FOR INSTALLATION LINK

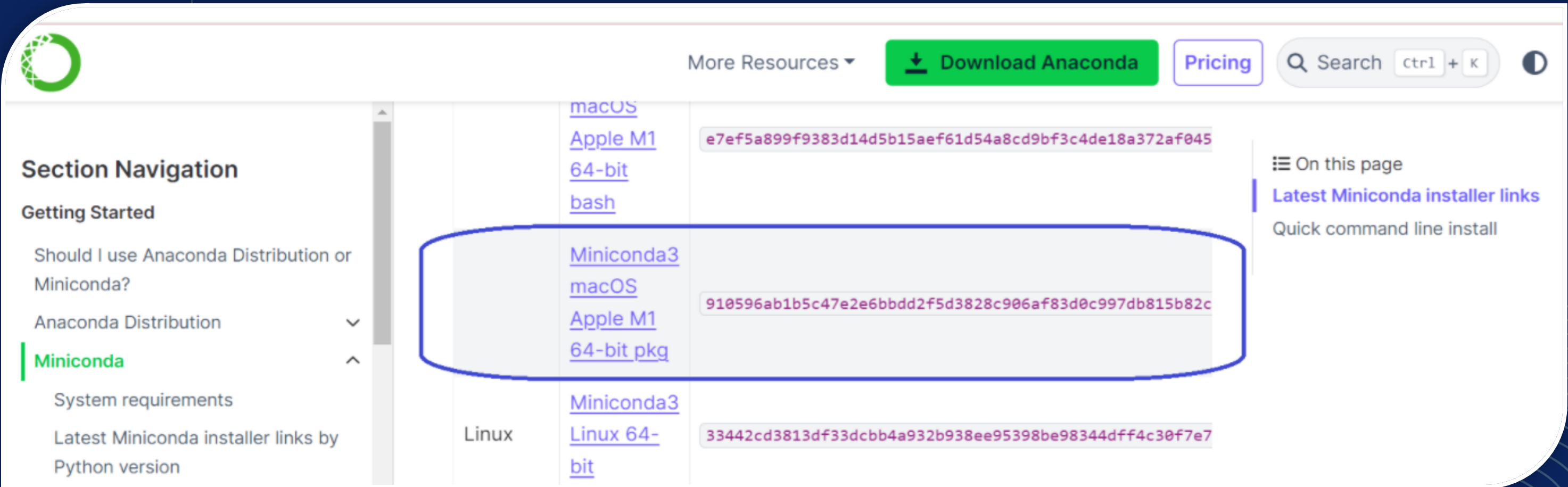
Search for Miniconda installation

STEP 1:



Scroll down to copy Miniconda distribution link

STEP 2:





# INSTALLATION GUIDE

## OPEN CLUSTER TERMINAL

Create a directory structure to store executable : `$ mkdir <directory_name>`

### STEP 3:

```
2. RUDRA luac -> samritm
[samritm@login09 ~]$ mkdir Miniconda
[samritm@login09 ~]$ ls
Miniconda test
[samritm@login09 ~]$
```

Download the .sh using link from STEP 2 : `$ wget <web-download_link>`

### STEP 4:

```
[samritm@login09 ~]$ wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
--2024-10-08 18:53:16-- https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh
Resolving repo.anaconda.com (repo.anaconda.com)... 104.16.32.241, 104.16.191.158, 2606:4700::6810:20f1, ...
Connecting to repo.anaconda.com (repo.anaconda.com)|104.16.32.241|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 148981743 (142M) [application/octet-stream]
Saving to: 'Miniconda3-latest-Linux-x86_64.sh'

Miniconda3-latest-Linux-x86_64. 100%[=====] 142.08M 31.1MB/s in 4.3s

2024-10-08 18:53:21 (33.2 MB/s) - 'Miniconda3-latest-Linux-x86_64.sh' saved [148981743/148981743]
```

Extract the executable into Miniconda Directory : `$ sh <bash_script> -b -p <directory_name> -u`

### STEP 5:

```
[samritm@login09 ~]$ sh Miniconda3-latest-Linux-x86_64.sh -b -p Miniconda/ -u
PREFIX=/home/samritm/Miniconda
Unpacking payload ...

Installing base environment...

Preparing transaction: ...working... done
Executing transaction: ...working... done
installation finished.
```



# INSTALLATION GUIDE (Optional)

## OPEN CLUSTER TERMINAL

Use source to apply changes to the current session to use Miniconda : `$ source <directory_name>/bin/activate`

### STEP 6:

```
envs Miniconda requirement.txt
[samritm@login05 ~]$ source Miniconda/bin/activate
(base) [samritm@login05 ~]$
```

Use export to create or modify environment variables : `export PATH="<Absolute_path_directory>/bin:$PATH"`

*Hint: use either STEP 6 or STEP 7*

### STEP 7:

```
[samritm@login01 ~]$ export PATH="/home/samritm/Miniconda/bin:$PATH"
[samritm@login01 ~]$ source activate
(base) [samritm@login01 ~]$
```

# INSTALLATION GUIDE (Optional)

## OPEN CLUSTER TERMINAL

Run conda init to configure the shell : \$ <directory\_name>/bin/conda init

### STEP 8:

```
[samritm@login06 ~]$ Miniconda/bin/conda init
no change      /home/samritm/Miniconda/condabin/conda
no change      /home/samritm/Miniconda/bin/conda
no change      /home/samritm/Miniconda/bin/conda-env
no change      /home/samritm/Miniconda/bin/activate
no change      /home/samritm/Miniconda/bin/deactivate
no change      /home/samritm/Miniconda/etc/profile.d/conda.sh
no change      /home/samritm/Miniconda/etc/fish/conf.d/conda.fish
no change      /home/samritm/Miniconda/shell/condabin/Conda.psm1
no change      /home/samritm/Miniconda/shell/condabin/conda-hook.ps1
no change      /home/samritm/Miniconda/lib/python3.12/site-packages/xontrib/conda.xsh
no change      /home/samritm/Miniconda/etc/profile.d/conda.csh
modified       /home/samritm/.bashrc

==> For changes to take effect, close and re-open your current shell. <==
```

Restart the shell or reload the configuration : \$ source ~/.bashrc

### STEP 9:

```
(base) [samritm@login06 ~]$ source ~/.bashrc
(base) [samritm@login06 ~]$ cat ~/.bashrc
# .bashrc

# >>> conda initialize >>>
# !! Contents within this block are managed by 'conda init' !!
__conda_setup="$('/home/samritm/Miniconda/bin/conda' 'shell.bash' 'hook' 2> /dev/null)"
if [ $? -eq 0 ]; then
    eval "$__conda_setup"
else
    if [ -f "/home/samritm/Miniconda/etc/profile.d/conda.sh" ]; then
        . "/home/samritm/Miniconda/etc/profile.d/conda.sh"
    else
        export PATH="/home/samritm/Miniconda/bin:$PATH"
    fi
fi
unset __conda_setup
# <<< conda initialize <<<
```

Hint : use *conda init -reverse*

*-all* to undo changes





# MANAGING CONDA

## FOLLOW THE INSTALLATION GUIDE

Verify that conda is installed : `$ conda --version`

```
anaconda1 anaconda1 Anaconda3-2023.09-MacOSX-x86_64.sh MtlConda MtlConda3-latest-Linux-x86_64.sh test
(base) [samritm@login06 ~]$ conda --version
conda 24.7.1
(base) [samritm@login06 ~]$
```

Updating conda to the current version : `$ conda update -n base conda`

```
Warning: defaults already in channels list, moving to the top
(base) [samritm@login06 ~]$ conda update -n base conda
Channels:
 - defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

# All requested packages already installed.
```

If newer version is available, type y to update :

The following packages will be UPDATED:

ca-certificates	2024.7.2-h06a4308_0	-->	2024.9.24-h06a4308_0
certifi	2024.7.4-py312h06a4308_0	-->	2024.8.30-py312h06a4308_0
conda	24.7.1-py312h06a4308_0	-->	24.9.1-py312h06a4308_0
openssl	3.0.14-h5eee18b_0	-->	3.0.15-h5eee18b_0

Proceed ([y]/n)? y

Downloading and Extracting Packages:

Preparing transaction: done  
Verifying transaction: done  
Executing transaction: done



Recommended: Always create new environment before installing any packages.



# MANAGING ENVIRONMENTS

## CREATING ENVIRONMENTS WITH COMMANDS

To create an environment : `$ conda create --name <my-env>`

```
(base) [samritm@login06 ~]$ conda create --name lab_conda
Channels:
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/samritm/Miniconda/envs/lab_conda
```

To create an environment with a specific version of Python: `$ conda create --name <my-env> python=<version>`

```
(base) [samritm@login06 ~]$ conda create --name lab_conda_2 python=3.9
Channels:
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/samritm/Miniconda/envs/lab_conda_2

added / updated specs:
- python=3.9
```

To create an environment with a specific version of Python and multiple packages: `$ conda create --name <my-env> python=<version> numpy=<version>`

```
(base) [samritm@login06 ~]$ conda create --name lab_conda_3 python=3.8 numpy=1.14.6
Channels:
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/samritm/Miniconda/envs/lab_conda_3

added / updated specs:
- numpy=1.14.6
- python=3.8
```



# MANAGING ENVIRONMENTS

## CREATING ENVIRONMENTS WITH COMMANDS

For detailed information : `$ conda create --help`

```
(base) [samritm@login06 ~]$ conda create --help
usage: conda create [-h] [--clone ENV] [-n ENVIRONMENT | -p PATH] [-c CHANNEL] [--use-local] [--override-channels]
                  [--repodata-fn REPODATA_FNS] [--experimental {jlap,lock}] [--no-lock] [--repodata-use-zst | --no-repodata-use-zst]
                  [--strict-channel-priority] [--no-channel-priority] [--no-deps | --only-deps] [--no-pin] [--copy] [--no-shortcuts]
                  [--shortcuts-only SHORTCUTS_ONLY] [-C] [-k] [--offline] [--json] [-v] [-q] [-d] [-y] [--download-only]
                  [--show-channel-urls] [--file FILE] [--no-default-packages] [--subdir SUBDIR] [--solver {classic,libmamba}] [-m]
                  [--dev]
                  [package_spec ...]
```

Additional arguments:

`package_spec` List of packages to install or update in the conda environment.

options:

`-h, --help` Show this help message and exit.  
`--clone ENV` Create a new environment as a copy of an existing local environment.  
`--file FILE` Read package versions from the given file. Repeated file specifications can be passed (e.g. `--file=file1 --file=file2`).  
`-m, --mkdir` `--mkdir` is deprecated and will be removed in 25.3. Redundant argument.  
`--dev` Use `'sys.executable -m conda'` in wrapper scripts instead of `CONDA_EXE`. This is mainly for use during tests where we test new conda sources against old Python versions.

Target Environment Specification:

`-n ENVIRONMENT, --name ENVIRONMENT` Name of environment.  
`-p PATH, --prefix PATH` Full path to environment location (i.e. prefix).

Channel Customization:

`-c CHANNEL, --channel CHANNEL` Additional channel to search for packages. These are URLs searched in the order they are given (including local directories using the `'file://'` syntax or simply a path like `'/home/conda/mychan'` or `'../mychan'`). Then, the defaults or channels from `.condarc` are searched (unless `--override-channels` is given). You can use `'defaults'` to get the default packages for conda. You can also use any name and the `.condarc` `channel_alias` value will be prepended. The default `channel_alias` is `https://conda.anaconda.org/`.  
`--use-local` Use locally built packages. Identical to `'-c local'`.  
`--override-channels` Do not search default or `.condarc` channels. Requires `--channel`.





# MANAGING ENVIRONMENTS

## CREATING ENVIRONMENTS WITH COMMANDS

For detailed information : `$ conda create --help`

### Solver Mode Modifiers:

`--strict-channel-priority`

Packages in lower priority channels are not considered if a package with the same name appears in a higher priority channel.

`--no-channel-priority`

Package version takes precedence over channel priority. Overrides the value given by ``conda config --show channel_priority``.

`--no-deps`

Do not install, update, remove, or change dependencies. This WILL lead to broken environments and inconsistent behavior. Use at your own risk.

`--only-deps`

Only install dependencies.

`--no-pin`

Ignore pinned file.

`--no-default-packages`

Ignore create\_default\_packages in the .condarc file.

### Working Options:

`-C, --use-index-cache`

Use cache of channel index files, even if it has expired. This is useful if you don't want conda to check whether a new version of the repodata file exists, which will save bandwidth.

`-k, --insecure`

Allow conda to perform "insecure" SSL connections and transfers. Equivalent to setting 'ssl\_verify' to 'false'.

`--offline`

Offline mode. Don't connect to the Internet.

### Output, Prompt, and Flow Control Options:

`--json`

Report all output as json. Suitable for using conda programmatically.

`-v, --verbose`

Can be used multiple times. Once for detailed output, twice for INFO logging, thrice for DEBUG logging, four times for TRACE logging.

`-q, --quiet`

Do not display progress bar.

`-d, --dry-run`

Only display what would have been done.

`-y, --yes`

Sets any confirmation values to 'yes' automatically. Users will not be asked to confirm any adding, deleting, backups, etc.

`--download-only`

Solve an environment and ensure package caches are populated, but exit prior to unlinking and linking packages into the prefix.

`--show-channel-urls`

Show channel urls. Overrides the value given by ``conda config --show show_channel_urls``.





# MANAGING ENVIRONMENTS

## CREATING ENVIRONMENTS WITH COMMANDS

Exporting existing environment packages to local file : `$ conda env export --name <env_name> > <environment>.yaml`

```
(base) [samritm@login06 ~]$ conda env export --name lab_conda_3 > lab_3_packages.yaml
(base) [samritm@login06 ~]$ ls
anaconda  Anaconda3-2023.09-Linux-x86_64.sh  Miniconda3  test
anaconda1 lab_3_packages.yaml                 Miniconda3-latest-Linux-x86_64.sh
```

Creating new environment from .yaml file : `$ conda env create --file <environment>.yaml --name <env_name>`

```
(base) [samritm@login06 ~]$ conda env create --file lab_3_packages.yaml --name lab_conda_4
/home/samritm/Miniconda3/lib/python3.12/argparse.py:2005: FutureWarning: `remote_definition` is deprecated and will be removed
in 25.9. Use `conda env create --file=URL` instead.
  action(self, namespace, argument_values, option_string)
Channels:
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done
```

Creating new environment from requirement file : `$ conda env create --file <requirement>.txt --name <env_name>`

```
(base) [samritm@login06 ~]$ conda env create --file requirement.txt --name lab_conda_5
/home/samritm/Miniconda3/lib/python3.12/argparse.py:2005: FutureWarning: `remote_definition` is deprecated and will be removed
in 25.9. Use `conda env create --file=URL` instead.
  action(self, namespace, argument_values, option_string)
Channels:
- conda-forge
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done
```



# MANAGING ENVIRONMENTS

## CREATING ENVIRONMENTS WITH COMMANDS

Cloning an existing environment : `$ conda create --name <new_env_name> --clone <old_env_name>`

```
(base) [samritm@login06 lab_conda_5]$ conda create --name lab_conda_6 --clone lab_conda_5
Source:      /home/samritm/Miniconda/envs/lab_conda_5
Destination: /home/samritm/Miniconda/envs/lab_conda_6
Packages: 162
Files: 1
```

Downloading and Extracting Packages:

Creating new environment to particular directory : `$ conda env create --prefix <path> <packages>`

```
(base) [samritm@login06 lab_conda_5]$ conda create --prefix /home/samritm/envs jupyterlab=3.2 matplotlib=3.5 numpy=1.21
Channels:
- conda-forge
- defaults
Platform: linux-64
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/samritm/envs

added / updated specs:
- jupyterlab=3.2
- matplotlib=3.5
- numpy=1.21
```



# MANAGING ENVIRONMENTS

## VIEWING LIST OF ENVIRONMENTS

To see list of all environments: `$ conda info --envs / conda env list`

```
(base) [samritm@login06 lab_conda_5]$ conda env list
# conda environments:
#
farseq                /home/samritm/.conda/envs/farseq
base                  * /home/samritm/Miniconda
lab_conda             /home/samritm/Miniconda/envs/lab_conda
lab_conda_2           /home/samritm/Miniconda/envs/lab_conda_2
lab_conda_3           /home/samritm/Miniconda/envs/lab_conda_3
lab_conda_4           /home/samritm/Miniconda/envs/lab_conda_4
lab_conda_5           /home/samritm/Miniconda/envs/lab_conda_5
lab_conda_6           /home/samritm/Miniconda/envs/lab_conda_6
```

Viewing list of packages in an environment : `$ conda list --name <env_name>`

Or Environment is activated, in the terminal run : `$ conda list`

```
(base) [samritm@login06 lab_conda_5]$ conda list --name lab_conda_6
# packages in environment at /home/samritm/Miniconda/envs/lab_conda_6:
#
# Name                  Version           Build    Channel
_libgcc_mutex           0.1               conda_fo conda-forge
_openmp_mutex            4.5               2_gnu    conda-forge
alsa-lib                 1.2.12            h4ab18f5_0 conda-forge
attr                     2.5.1             h166bdaf_1 conda-forge
brotli                   1.1.0             hb9d3cd8_2 conda-forge
brotli-bin               1.1.0             hb9d3cd8_2 conda-forge
bzip2                    1.0.8             h4bc722e_7 conda-forge
ca-certificates          2024.8.30          hbcca054_0 conda-forge
cairo                     1.18.0            hebfffa5_3 conda-forge
certifi                   2024.8.30          pyhd8ed1ab_0 conda-forge
contourpy                 1.2.1             py39h7633fee_0 conda-forge
cyclor                    0.12.1            pyhd8ed1ab_0 conda-forge
dbus                     1.13.6            h5008d03_3 conda-forge
expat                     2.6.3             h5888daf_0 conda-forge
```





# MANAGING ENVIRONMENTS

## RESTORING AND RENAME AN ENVIRONMENT

To rollback to previous revision : `$ conda list --revisions`

```
(base) [samritm@login06 lab_conda_5]$ conda list --revisions
2024-08-16 20:09:27 (rev 0)
+ _libgcc_mutex-0.1
+ _openmp_mutex-5.1
+ anaconda-anon-usage-0.4.4
+ archspec-0.2.3
+ boltons-23.0.0
+ brotli-python-1.0.9
+ bzip2-1.0.8
+ c-ares-1.19.1
+ ca-certificates-2024.7.2
```

To restore environment installation of packages to previous revision: `$ conda install --rev <REVNUM>`

```
(base) [samritm@login06 lab_conda_5]$ conda install --rev 01
Collecting package metadata (current_repodata.json): done
Reverting to revision 1: done

# All requested packages already installed.
```

To rename existing environment: `$ conda rename --name <old_env_name> <new_env_name>`

```
(base) [samritm@login02 ~]$ conda rename --name lab_conda_6 lab_conda_7
Source:      /home/samritm/Miniconda/envs/lab_conda_6
Destination: /home/samritm/Miniconda/envs/lab_conda_7
Packages: 38
Files: 1
```





# MANAGING ENVIRONMENTS

## ACTIVATE / DEACTIVATE ENVIRONMENTS

To activate particular environment : `$ conda activate <env_name>`

```
(base) [samritm@login06 lab_conda_5]$ conda activate lab_conda_6
(lab_conda_6) [samritm@login06 lab_conda_5]$
```

To deactivate the existing environment: `$ conda deactivate`

```
(base) [samritm@login06 lab_conda_5]$ conda deactivate
(lab_conda_6) [samritm@login06 lab_conda_5]$
(base) [samritm@login06 lab_conda_5]$
```

For detailed information : `$ conda remove --help`

```
(base) [samritm@login06 lab_conda_5]$ conda remove --help
usage: conda remove [-h] [-n ENVIRONMENT | -p PATH] [-c CHANNEL] [--use-local] [--override-channels]
                  [--repodata-fn REPODATA_FNS] [--experimental {jlap,lock}] [--no-lock]
                  [--repodata-use-zst | --no-repodata-use-zst] [--features] [--force-remove] [--no-pin]
                  [--solver {classic,libmamba}] [-C] [-k] [--offline] [--json] [-v] [-q] [-d] [-y] [--all] [--keep-env]
                  [--dev]
                  [package_name ...]
```

### Options:

- `-h, --help`
- `--all`
- `--keep-env`
- `--dev`

Show this help message and exit.

Remove all packages, i.e., the entire environment.

Used with `--all`, delete all packages but keep the environment.

Use `sys.executable -m conda` in wrapper scripts instead of `CONDA_EXE`. This is mainly for use during tests where we test new conda sources against old Python versions.

### Target Environment Specification:

- `-n ENVIRONMENT, --name ENVIRONMENT`

Name of environment.

- `-p PATH, --prefix PATH`

Full path to environment location (i.e. prefix).



# MANAGING ENVIRONMENTS

## REMOVE PACKAGES / ENVIRONMENT

To remove particular package in environment : \$ conda remove <package\_name>

```
Executing transaction: done
(lab_conda_6) [samritm@login10 ~]$ conda remove numpy
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /home/samritm/Miniconda/envs/lab_conda_6

removed specs:
- numpy
```

To remove a package from a environment 'lab\_conda\_6': \$ conda remove --name <env\_name> <package\_name>

```
(base) [samritm@login10 ~]$ conda deactivate
(base) [samritm@login10 ~]$ conda remove --name lab_conda_6 numpy
Collecting package metadata (repodata.json): done
Solving environment: done

## Package Plan ##

  environment location: /home/samritm/Miniconda/envs/lab_conda_6

removed specs:
- numpy
```

To remove environment 'lab\_conda\_6' from list of environments: \$ conda env remove --name <env\_name>

```
(base) [samritm@login02 ~]$ conda env remove --name lab_conda_6
```

Remove all packages in environment /home/samritm/Miniconda/envs/lab\_conda\_6:



# MANAGING ENVIRONMENTS

## REMOVE PACKAGES

To remove all packages from environment 'lab\_conda\_6' and the environment itself: \$ conda remove --name <env\_name> --all

```
(base) [samritm@login10 ~]$ conda remove --name lab_conda_6 --all
```

Remove all packages in environment /home/samritm/Miniconda/envs/lab\_conda\_6:

```
## Package Plan ##
```

```
environment location: /home/samritm/Miniconda/envs/lab_conda_6
```

The following packages will be REMOVED:

To remove all packages from the environment 'lab\_conda\_6' but retain the environment: \$ conda remove --name <env\_name> --all --keep-env

```
(base) [samritm@login05 ~]$ conda remove --name lab_conda_6 --all --keep-env
```

Remove all packages in environment /home/samritm/Miniconda/envs/lab\_conda\_6:

```
## Package Plan ##
```

```
environment location: /home/samritm/Miniconda/envs/lab_conda_6
```

To remove all unused packages from environment: \$ conda clean --all

```
(lab_conda_6) [samritm@login02 ~]$ conda clean --all
```

```
Will remove 320 (1.47 GB) tarball(s).
```

```
Proceed ([y]/n)? y
```

```
Will remove 2 index cache(s)
```



# MANAGING CHANNELS

## ADD CHANNELS

To list all channels currently configured for conda environment: `$ conda config --show channels`



1. Defaults
2. Conda-forge
3. Anaconda
4. Nvidia
5. Pytorch

```
(base) [samritm@login05 ~]$ conda config --show channels
channels:
- defaults
- conda-forge
(base) [samritm@login05 ~]$
```

To add a channel to the configurations: `$ conda config --add channels <channel-name>`

```
- conda-forge
(base) [samritm@login05 ~]$ conda config --add channels nvidia
(base) [samritm@login05 ~]$ conda config --show channels
channels:
- nvidia
- defaults
- conda-forge
(base) [samritm@login05 ~]$
```





# MANAGING CHANNELS

## TO REMOVE DEFAULT AND SET SPECIFIC CHANNEL

To remove a specific channel from configuration: `$ conda config --remove channels <channel_name>`

```
(base) [samritm@login05 ~]$ conda config --remove channels nvidia
(base) [samritm@login05 ~]$ conda config --show channels
channels:
- defaults
- conda-forge
(base) [samritm@login05 ~]$
```

When installing a package, can specify the channel to install without permanently adding channel : `$ conda install <package_name> -c <channel_name>`

```
(base) [samritm@login05 ~]$ conda install xgboost -c conda-forge
Collecting package metadata (current_repodata.json): done
Solving environment: done

## Package Plan ##

environment location: /home/samritm/Miniconda

added / updated specs:
- xgboost
```



# MANAGING PACKAGES

## TO SEARCH FOR PACKAGES

To see if a specific packages are for available for installation : `$ conda search <package_name>`

```
(lab_conda_6) [samritm@login02 ~]$ conda search scipy
Loading channels: done
# Name                                Version      Build Channel
scipy                                0.17.1 np110py27_blas_openblas_200 conda-forge
scipy                                0.17.1 np110py27_blas_openblas_201 conda-forge
scipy                                0.17.1 np110py27_blas_openblas_202 conda-forge
scipy                                0.17.1 np110py27_blas_openblas_203 conda-forge
scipy                                0.17.1 np110py27_blas_openblas_204 conda-forge
scipy                                0.17.1 np110py27_blas_openblas_205 conda-forge
scipy                                0.17.1 np110py34 blas_openblas_200 conda-forge
```

Alternatively can search on official website of anaconda for packages : <https://anaconda.org/>

ANACONDA.ORG

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scipy

Filters

Type: All Access: All Platform: All

Favorites Downloads Artifact (owner / artifact)

Platforms

4553236938conda-forge / scipy 1.14.1Scientific Library for Pythoncopyconda


linux-64 linux-aarch64 linux-ppc64le osx-64 osx-arm64 win-32 win-64



# MANAGING PACKAGES

## TO SEARCH FOR NON-CONDA PACKAGES AND INSTALLATION


To install particular packages on environment : `$ pip install <package_name>`




If a package is not available on conda or conda forge. We can install packages with another package manager like pip.

```
(lab_conda_6) [samritm@login02 ~]$ pip install pandas
Collecting pandas
  Downloading pandas-2.2.3-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (89 kB)
Requirement already satisfied: numpy>=1.22.4 in ./Miniconda/envs/lab_conda_6/lib/python3.9/site-packages (from pandas) (1.26.4)
Collecting python-dateutil>=2.8.2 (from pandas)
  Using cached python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2020.1 (from pandas)
  Downloading pytz-2024.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting tzdata>=2022.7 (from pandas)
  Downloading tzdata-2024.2-py2.py3-none-any.whl.metadata (1.4 kB)
Requirement already satisfied: six>=1.5 in ./Miniconda/envs/lab_conda_6/lib/python3.9/site-packages (from python-dateutil>=2.8.2) (1.16.0)
```

Search on official website of python package Index (PyPI) for packages : <https://pypi.org/search>



Installation of pip:  
`$ conda install pip`



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pandas 2.2.3

Powerful data structures for data analysis, time series, and statistics

Sep 20, 2024

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Relevance





# MANAGING PACKAGES

## LIST OUT NON-CONDA PACKAGES AND UN-INSTALLATION

Search on official website of python package Index (PyPI) for packages : <https://pypi.org/search>

**pandas 2.2.3**

`pip install pandas`



Latest version

Released: Sep 20, 2024

To list all the packages installed through pip manager : `pip list`

```
(lab_conda_6) [samritm@login02 ~]$ pip list | grep pandas
pandas                2.2.3
(lab_conda_6) [samritm@login02 ~]$
```

To uninstall packages which are installed through pip manager : `pip uninstall <package_name>`

```
(lab_conda_6) [samritm@login02 ~]$ pip uninstall pandas
Found existing installation: pandas 2.2.3
Uninstalling pandas-2.2.3:
  Would remove:
    /home/samritm/Miniconda/envs/lab_conda_6/lib/python3.9/site-packages/pandas-2.2.3.dist-info/*
    /home/samritm/Miniconda/envs/lab_conda_6/lib/python3.9/site-packages/pandas/*
Proceed (Y/n)? y
Successfully uninstalled pandas-2.2.3
```

Cheat sheet : [https://docs.conda.io/projects/conda/en/latest/\\_downloads/e0795803d81d6d87b74abed339025237/conda-24.4.0.pdf](https://docs.conda.io/projects/conda/en/latest/_downloads/e0795803d81d6d87b74abed339025237/conda-24.4.0.pdf)





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# THANK YOU

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