

conda vs. pip vs. virtualenv

If you've used pip and virtualenv in the past, you can use conda to perform all of the same operations. Pip is a package manager, and Virtualenv is an environment manager. Conda is both.

Task	Conda package and environment manager command	Pip package manager command	Virtualenv environment manager command
Install a package	conda install \$PACKAGE_NAME	pip install \$PACKAGE_NAME	X
Update a package	conda update --name \$ENVIRONMENT_NAME \$PACKAGE_NAME	pip install --upgrade \$PACKAGE_NAME	X
Update package manager	conda update conda	Linux/OSX: pip install -U pip Win: python -m pip install -U pip	X
Uninstall a package	conda remove --name \$ENVIRONMENT_NAME \$PACKAGE_NAME	pip uninstall \$PACKAGE_NAME	X
Create an environment	conda create --name \$ENVIRONMENT_NAME python	X	cd \$ENV_BASE_DIR; virtualenv \$ENVIRONMENT_NAME
Activate an environment	source activate \$ENVIRONMENT_NAME	X	source \$ENV_BASE_DIR/\$ENVIRONMENT_NAME/bin/activate
Deactivate an environment	source deactivate	X	deactivate
Search available packages	conda search \$SEARCH_TERM	pip search \$SEARCH_TERM	X
Install package from specific source	conda install --channel \$URL \$PACKAGE_NAME	pip install --index-url \$URL \$PACKAGE_NAME	X
List installed packages	conda list --name \$ENVIRONMENT_NAME	pip list	X
Create requirements file	conda list --export	pip freeze	X
List all environments	conda info --envs	X	Install virtualenv wrapper, then lsvirtualenv
Install other package manager	conda install pip	pip install conda	X
Install Python	conda install python=x.x	X	X
Update Python	conda update python *	X	X

- `conda update python` updates to the most recent in the series, so Python 2 to latest 2.x, Python 3 to latest 3.x, and so on.
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