**Offline Python Installation Guide**

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**You said:**

best way to install python and libs without internet

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To install Python and libraries without an internet connection, you need to download the necessary resources in advance from a machine with internet access. Here’s a step-by-step guide:

**1. Download Python Installer:**

* Go to the [official Python website](https://www.python.org/downloads/) from a machine with internet access.
* Download the offline installer for your operating system (Windows, macOS, or Linux).
* Transfer the installer to the offline machine using a USB drive or another method and install Python.

**2. Download Required Python Libraries (Wheels):**

* You can download .whl (Wheel) files for Python libraries from [PyPI](https://pypi.org/).
* On a machine with internet:
  + Use pip download to download the library and its dependencies.
  + For example, to download the NumPy library:

bash

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pip download numpy

* + This will download numpy and its dependencies in .whl format.
* Transfer the downloaded .whl files to the offline machine.

**3. Install Libraries Offline:**

* Once the .whl files are transferred to the offline machine, install them using pip.
* Open a terminal/command prompt and use:

bash

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pip install path\_to\_whl\_file.whl

* If you have multiple .whl files, you can install all of them in one command:

bash

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pip install \*.whl

**4. For Linux Distributions:**

* Many Linux distributions include Python pre-installed, but if you need specific libraries, you can:
  + Use a machine with internet to download packages with apt-get (Debian/Ubuntu) or yum/dnf (Fedora/RHEL/CentOS).
  + Download the .deb or .rpm packages along with dependencies and transfer them to the offline machine.
  + Install them using dpkg or rpm.

**5. Consider Setting Up a Local PyPI Mirror:**

* If you frequently need to install libraries offline, you can set up a local PyPI repository on a local server. Use tools like devpi to create a local mirror of PyPI packages.

This approach ensures that you have the necessary Python packages ready for installation without needing internet on the target machine.