

## <Born>

1. High performance desktop for Dario's team (in 2021)
2. IP address: 203.247.189.176
3. Specification
  - CPU: Intel Xeon Gold 6258R, 38.5 MB Cache, 2.7 GHz, 56 Cores
  - Memory: 384GB DDR4 (32GB \* 12ea)
  - OS: Ubuntu 20.04
  - Disk information: 960GB SSD, 8TB HDD storage
4. How to access and use

You can access to Born by the command as below.

**\$ ssh -XCY -p 4022 [username@born.ibs.re.kr](mailto:username@born.ibs.re.kr)**

Applications installed are as below.

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----- Installed Programs or Libraries -----  
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Julia-1.7.0

Cuda-11.2

gcc 9.3.0

MATLAB R2020b, Mathematica 12.2

Python 3.8

**\$ pip3 -V**

pip 21.3.1 from /usr/local/lib/python3.8/dist-packages/pip (python 3.8)

**\$ pip3 list**

| Package         | Version    |
|-----------------|------------|
| absl-py         | 1.0.0      |
| alembic         | 1.7.5      |
| apturl          | 0.5.2      |
| argon2-cffi     | 21.1.0     |
| astunparse      | 1.6.3      |
| async-generator | 1.10       |
| attrs           | 21.2.0     |
| backcall        | 0.2.0      |
| bcrypt          | 3.1.7      |
| bleach          | 4.1.0      |
| blinker         | 1.4        |
| Brlapi          | 0.7.0      |
| cachetools      | 4.2.4      |
| certifi         | 2019.11.28 |

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|----------------------|-------------|
| certipy              | 0.1.3       |
| cffi                 | 1.15.0      |
| chardet              | 3.0.4       |
| Click                | 7.0         |
| colorama             | 0.4.3       |
| command-not-found    | 0.3         |
| cryptography         | 3.3.2       |
| cupshelpers          | 1.0         |
| cycler               | 0.11.0      |
| dbus-python          | 1.2.16      |
| debugpy              | 1.5.1       |
| decorator            | 5.1.0       |
| defer                | 1.0.6       |
| defusedxml           | 0.7.1       |
| distro               | 1.4.0       |
| distro-info          | 0.23ubuntu1 |
| duplicity            | 0.8.12.0    |
| entrypoints          | 0.3         |
| fasteners            | 0.14.1      |
| flatbuffers          | 2.0         |
| fonttools            | 4.28.2      |
| future               | 0.18.2      |
| gast                 | 0.4.0       |
| google-auth          | 2.3.3       |
| google-auth-oauthlib | 0.4.6       |
| google-pasta         | 0.2.0       |
| greenlet             | 1.1.2       |
| grpcio               | 1.42.0      |
| h5py                 | 2.10.0      |
| httplib2             | 0.14.0      |
| idna                 | 2.8         |
| importlib-metadata   | 4.8.2       |
| importlib-resources  | 5.4.0       |
| ipykernel            | 6.5.1       |
| ipython              | 7.30.0      |
| ipython-genutils     | 0.2.0       |
| jedi                 | 0.18.1      |
| Jinja2               | 3.0.3       |
| jsonschema           | 4.2.1       |
| jupyter-client       | 7.1.0       |
| jupyter-core         | 4.9.1       |
| jupyter-telemetry    | 0.1.0       |
| jupyterhub           | 1.5.0       |
| jupyterlab-pygments  | 0.1.2       |

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|---------------------|---------|
| keras               | 2.7.0   |
| Keras-Preprocessing | 1.1.2   |
| keyring             | 18.0.1  |
| kiwisolver          | 1.3.2   |
| language-selector   | 0.1     |
| launchpadlib        | 1.10.13 |
| lazr.restfulclient  | 0.14.2  |
| lazr.uri            | 1.0.3   |
| libclang            | 12.0.0  |
| lockfile            | 0.12.2  |
| louis               | 3.12.0  |
| macaroonbakery      | 1.3.1   |
| Mako                | 1.1.0   |
| Markdown            | 3.3.6   |
| MarkupSafe          | 2.0.1   |
| matplotlib          | 3.5.0   |
| matplotlib-inline   | 0.1.3   |
| mistune             | 0.8.4   |
| monotonic           | 1.5     |
| nbclient            | 0.5.9   |
| nbconvert           | 6.3.0   |
| nbformat            | 5.1.3   |
| nest-asyncio        | 1.5.1   |
| netifaces           | 0.10.4  |
| networkx            | 2.6.3   |
| nose                | 1.3.7   |
| notebook            | 6.4.6   |
| numpy               | 1.21.4  |
| oauthlib            | 3.1.0   |
| olefile             | 0.46    |
| opt-einsum          | 3.3.0   |
| packaging           | 21.3    |
| pamela              | 1.0.0   |
| pandas              | 1.3.4   |
| pandocfilters       | 1.5.0   |
| paramiko            | 2.6.0   |
| parso               | 0.8.2   |
| pexpect             | 4.6.0   |
| pickleshare         | 0.7.5   |
| Pillow              | 7.0.0   |
| pip                 | 21.3.1  |
| prometheus-client   | 0.12.0  |
| prompt-toolkit      | 3.0.23  |
| protobuf            | 3.19.1  |

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|-------------------------|----------------------|
| ptyprocess              | 0.7.0                |
| pyasn1                  | 0.4.8                |
| pyasn1-modules          | 0.2.8                |
| pycairo                 | 1.16.2               |
| pycparser               | 2.21                 |
| pycups                  | 1.9.73               |
| Pygments                | 2.10.0               |
| PyGObject               | 3.36.0               |
| PyJWT                   | 1.7.1                |
| pymacaroons             | 0.13.0               |
| PyNaCl                  | 1.3.0                |
| pyOpenSSL               | 21.0.0               |
| pyparsing               | 3.0.6                |
| pyRFC3339               | 1.1                  |
| pyrsistent              | 0.18.0               |
| python-apt              | 2.0.0+ubuntu0.20.4.6 |
| python-dateutil         | 2.7.3                |
| python-debian           | 0.1.36ubuntu1        |
| python-json-logger      | 2.0.2                |
| pytz                    | 2019.3               |
| pyxdg                   | 0.26                 |
| PyYAML                  | 5.3.1                |
| pyzmq                   | 22.3.0               |
| reportlab               | 3.5.34               |
| requests                | 2.22.0               |
| requests-oauthlib       | 1.3.0                |
| requests-unixsocket     | 0.2.0                |
| rsa                     | 4.8                  |
| ruamel.yaml             | 0.17.17              |
| ruamel.yaml.clib        | 0.2.6                |
| scipy                   | 1.7.3                |
| screen-resolution-extra | 0.0.0                |
| SecretStorage           | 2.3.1                |
| Send2Trash              | 1.8.0                |
| setuptools              | 45.2.0               |
| setuptools-scm          | 6.3.2                |
| simplejson              | 3.16.0               |
| six                     | 1.14.0               |
| SQLAlchemy              | 1.4.27               |
| ssh-import-id           | 5.10                 |
| systemd-python          | 234                  |
| tensorboard             | 2.7.0                |
| tensorboard-data-server | 0.6.1                |
| tensorboard-plugin-wit  | 1.8.0                |

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|------------------------------|--------|
| tensorflow-estimator         | 2.7.0  |
| tensorflow-gpu               | 2.7.0  |
| tensorflow-io-gcs-filesystem | 0.22.0 |
| termcolor                    | 1.1.0  |
| terminado                    | 0.12.1 |
| testpath                     | 0.5.0  |
| tomli                        | 1.2.2  |
| torch                        | 1.10.0 |
| torchvision                  | 0.11.1 |
| tornado                      | 6.1    |
| traitlets                    | 5.1.1  |
| typing_extensions            | 4.0.0  |
| ubuntu-advantage-tools       | 27.6   |
| ubuntu-drivers-common        | 0.0.0  |
| ufw                          | 0.36   |
| unattended-upgrades          | 0.1    |
| urllib3                      | 1.25.8 |
| usb-creator                  | 0.3.7  |
| wadllib                      | 1.3.3  |
| wcwidth                      | 0.2.5  |
| webencodings                 | 0.5.1  |
| Werkzeug                     | 2.0.2  |
| wheel                        | 0.34.2 |
| wrapt                        | 1.13.3 |
| xkit                         | 0.0.0  |
| zipp                         | 3.6.0  |

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