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| Istekki4vLOGO_2_kirje_koko**Applications installed to the virtual workspaces** |
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**Version history**

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| --- | --- | --- | --- | --- |
| Version | Date | Authors | Approved by | Valid till |
| 1.0 | 15.8.2022 | Markus Johansson & Pekka Hänninen |  |  |
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**Change history**

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| Version | Date | Author | Description |
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1. Introduction

This document provides list of all the applications installed to the virtual work spaces.

1. Applications

All available applications in virtual work spaces are listed to the table below:

|  |  |  |
| --- | --- | --- |
| **Application** | **Installed 10.6.2022** | **Additional info** |
| RStudio 2022.02.3+492 | OK |   |
| R version 4.1.2 | OK |   |
| tidyverse | OK |   |
| reticulate | OK |   |
| tidyselect | OK |   |
| data.table | OK |   |
| DBI | OK |   |
| here | OK |   |
| knitr | OK |   |
| kable | OK |   |
| odbc | OK |   |
| plotly | OK |   |
| readxl | OK |   |
| scales | OK |   |
| xlsx | OK |   |
| caret | OK |   |
| diffusionMap | OK |   |
| dummies | OK |   |
| e1071 | OK |   |
| epitools | OK |   |
| forecast | OK |   |
| foreign | OK |   |
| gamlss | OK |   |
| lavaan | OK |   |
| lcmm | OK |   |
| lme4 | OK |   |
| mclust | OK |   |
| NbClust | OK |   |
| nlme | OK |   |
| PredictABEL | OK |   |
| pROC | OK |   |
| pspline | OK |   |
| RColorBrewer | OK |   |
| Rgraphviz | OK |   |
| semPlot | OK |   |
| SnowballC | OK |   |
| splines | OK |   |
| stringi | OK |   |
| survcomp | OK |   |
| survival | OK |   |
| tm | OK |   |
| wordcloud | OK |   |
| rsqlite | OK |   |
| Rmysql | OK |   |
| Rpostgressql | OK |   |
| Haven | OK |   |
| Dplyr | OK |   |
| Tidyr | OK |   |
| Tibble | OK |   |
| Lubridate | OK |   |
| Stringr | OK |   |
| Tidymodels | OK |   |
| Car | OK |   |
| Mgcv | OK |   |
| Vcd | OK |   |
| Multicomp | OK |   |
| Ggplot2 | OK |   |
| Rgl | OK |   |
| Ggvis | OK |   |
| Htmlwidgets | OK |   |
| Modelr | OK |   |
| Mlr | OK |   |
| Xgboost | OK |   |
| Shiny | OK |   |
| Modelr | OK |   |
| Rmarkdown | OK |   |
| Xtable | OK |   |
| RTools | OK |   |
| Rcpp | OK |   |
| Devtools | OK |   |
| Duckdb | OK |   |
| EPI | OK |   |
| Glmm | OK |   |
| Fst | OK |   |
| Qs | OK |   |
| MASS | OK |   |
| Anaconda, with Python 3.9  | OK | No miniconda, no separate Python 3.9 install |
| Jupyter | OK |   |
| Jupyterlab | OK |   |
| Spyder | OK |   |
| Python 3.9 | OK |   |
| Scikit-Learn   | OK |   |
| numpy | OK |   |
| pandas | OK |   |
| matplotlib | OK |   |
| scipy | OK |   |
| seaborn | OK |   |
| statsmodels | OK |   |
| plotly | OK |   |
| sqlalchemy | OK |   |
| pyodbc | OK |   |
| Pendulum/ Arrow  | OK |   |
| Python Imaging Library Ja Pillow   | OK |   |
| Moviepy   | OK |   |
| Keras Applicationt / Keras-Preprocessing   | OK |   |
| Pytorch  | OK |   |
| Scrapy  | OK |   |
| Beautiful Soap  | OK |   |
| NLTK  | OK |   |
| Sympy  | OK |   |
| Ipython Notebook  | OK |   |
| Opencv-Python   | OK |   |
| Pickleshare  | OK |   |
| Gpustat   | OK |   |
| Tensorflow   | OK |   |
| Tensorflow-Gpu   | OK |   |
| Xgboost   | OK |   |
| Matplotlib   | OK |   |
| Seaborn  | OK |   |
| Bokeh  | OK |   |
| Plotly   | OK |   |
| Pydot  | OK |   |
| Shiny  | OK |   |
| bcftiiks  | OK |   |
| plink  | OK |   |
| Pytorch with cuda  | OK |   |
| Shutil  | OK |   |
| Natsort  | OK |   |
| Timm  | OK |   |
| Efficient-pytorch  | OK |   |
| Pretrained models  | OK |   |
| Openslide  | OK |   |
| Urllib  | OK |   |
| sqlite3 | OK |   |
| SQLite | OK |   |
| Visual Studio Code 1.67 | OK |   |
| Microsoft Python-extensions for Visual Studio Code | OK | Python, Jupyter ja Jupyter Notebook Renderers extensions |
| Pycharm community 2022.1.2 | OK |   |
| SPSS | OK |   |
| Notepad++ | OK |   |
| Winmerge | OK |   |
| Libre Office | OK |   |
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