

Computerome 2.0 Wiki



Welcome to the Computerome 2.0 Wiki

Access to Computerome

Access to Computerome is available to everyone interested in Danish Life Sciences and we encourage both academic and industry users to use the facility.

If you are interested in accessing Computerome 2.0 please find the form that suits your need and send it to computerome@dtu.dk.

- [Create new group](#)
- [Create new group at DTU](#)
- [Modify user information](#)
- [Add new user to an existing group](#)
- [Add existing user to an existing group](#)
- [Remove user from a group](#)
- [Inactivate user](#)
- [Reactivate user](#)
- [Change legal group owner of an existing group](#)
- [Change technical group owner of an existing group](#)
- [Disable group](#)
- [Reactivate group.pdf](#)

For information regarding pricing and quotes please contact Computerome National Life Science Supercomputing Center: computerome@dtu.dk.

If you are from University of Copenhagen and need access please contact KU IT: KU-IT-raadgivning@adm.ku.dk.

Differences between Computerome 1.0 and Computerome 2.0

Computerome 2.0 has been built with similar principles and technologies, as Computerome 1.0. Those users, who will migrate their Computerome 1.0 projects to the new cluster, will experience the following differences:

- The 2-factor authentication happens with either SMS codes or the **Entrust IdentityGuard soft token**. See [the guide](#) on how to set up this soft token. No other soft tokens (e.g. Google Authenticator) are available for Computerome 2.0.
- The **virtual desktop solution** relies on the **regular ThinLinc client**, which can be downloaded from [Cendio's website](#). Read more on this [here](#).
- Changes in the default project directory structure compared to the one in Computerome 1.0:
 - `/home/projects/<PROJECT>/archive` is removed. Computerome 2.0 does not provide archiving services.
 - `/home/projects/<PROJECT>/backup` has been created. In Computerome 2.0, only the data physically stored in the backup directory is backed up for disaster recovery purposes.
 - `/home/people/<user>` has now a 10 GB quota on each personal directory.
- The support email for Computerome 2.0 changed to computerome@dtu.dk. Computerome 1.0 related requests and incidents remain to be reported to hpc@bio.dtu.dk.

There is no difference between Computerome 1.0 and Computerome 2.0 regarding:

- [Job execution](#)
- [Installed software](#)

COMPUTEROME 2.0 IS RUNNING NORMALLY

About Computerome

The **Danish National Supercomputer for Life Sciences** (a.k.a. Computerome) is installed at the **DTU National Lifescience Center** at **Technical University of Denmark**.

The computer hardware is funded with grants from **Technical University of Denmark (DTU)**, **University of Copenhagen (KU)** and **Danish e-infrastructure Cooperation (DeiC)** - also, it is the official Danish ELIXIR Node.

Computerome's original compute resources consisted of **16704 CPU cores with 102 TeraBytes of memory**, connected to **8 PetaBytes of High-performance storage**, and with a total peak performance of more than **483 TeraFLOPS** (483 million floating-point operations per second).

It debuted in November 2014 at **#121 on TOP500 Supercomputing Sites**.

Next generation Computerome 2.0 was opened in 2019. Its compute resources consists of **31760 CPU cores with 210 TeraBytes of memory**, connected to **8 PetaBytes of High-performance storage**,

Please see the [Hardware](#) page for further details.

Recently Updated

[Computerome 2.0 Wiki](#)

20 Nov, 2020 • updated by [Hiroki Takano](#) • [view change Terms and Conditions](#)

19 Nov, 2020 • updated by [Megan Guertner](#) • [view change Backup and Restore](#)

19 Nov, 2020 • updated by [Megan Guertner](#) • [view change Computerome 2.0 Wiki](#)

Setup and Security framework

The Danish National Supercomputer for Life Sciences has an ultra high-density footprint, and is installed in two 500kW containerized Tier IV data center modules.

The system is designed using the bioinformatics reference architecture developed by CBS over the past 20 years and using the standard practices in the industry. It has a full set of comprehensive tools for both management and usage of the system. To get acquainted with the physical Hardware setup [please visit here](#).

Getting Started

The **Getting Started** page guides new users in the use of the system.

Recommended places to start	Resources
<ul style="list-style-type: none">• Getting started, including How to login• Two-factor authentication• Virtual desktop• Batch System• Installed Software• Directory structure• Terms and conditions of use	<ul style="list-style-type: none">• Unix Basics• Video Tutorials• Press Clippings

Contact and Support

You are welcome to send us your questions or requests to [Computerome support \(computerome@dtu.dk\)](mailto:computerome@dtu.dk)

When requesting support, it is very helpful if you can include at least the following information:

- A relevant and descriptive **Subject**:
- Which system am I on - Computerome main or <named> cloud system
- What I did - command line(s), loaded modules, working directory, etc.
 - Specifically for **login** issues, please always provide - tool you use (ThinLinc, SSH login), hostname you connect to, messages you receive
- What I want to happen
- What happened instead - warnings, error messages, logs, etc.

Please send your support requests from your official e-mail address.

16 Nov, 2020 • updated by [Megan Guertner](#) • [view change Security](#)

13 Nov, 2020 • updated by [Megan Guertner](#) • [view change Computerome 2.0 security overview 2020.pdf](#)

13 Nov, 2020 • attached by [Megan Guertner](#)


Computerome and the Tryggve project

Computerome is a building-block in the [Tryggve project](#) that is working to establish a Nordic platform for collaboration on sensitive data, and that is funded by NelC and the ELIXIR nodes in Denmark, Finland, Norway and Sweden.

The Tryggve project welcomes use-cases from researchers collaborating on sensitive data with researchers in other Nordic countries. Please follow instructions on the [Tryggve Getting Started page](#).

As part of the Computerome engagement in Tryggve, Computerome is committed to the [Tryggve Code of Conduct](#).

The Name

 The Computerome (pronunciation: \km-pyü-tr-m\) cluster supercomputer is named in accordance with the [use of the '-ome' suffix in the field of study in biology](#).

Computerome is housed at [DTU Risø Campus](#).