

The background is a dark blue gradient. On the right side, there is a vertical column of white binary code (0s and 1s). Overlaid on this are several abstract, semi-transparent shapes: a large, light blue circular shape, a dark blue curved shape, and a network of red and purple lines that resemble a stylized globe or a data network. The overall aesthetic is futuristic and digital.

Closing remarks

PSNC ACH (ACH-04)

Michał K. Owsiak

Getting access to computational resources

Gateway: <https://wiki.eufus.eu>

GATEWAY ENEA CINECA

Welcome to the EUROfusion Gateway infrastructure within ENEA/ CINECA (Bologna-Italy).

The Gateway infrastructure is interoperable with the EUROfusion HPC facility.

Gateway username/password is required in order to access the Gateway Wiki Documents.

If you have forgotten Gateway username/password please send an email to Gateway support inserting the following:

Name
Surname
Organization
email address registered on the Gateway mailing list

How to get a user account

To get access to the EUROfusion Gateway at CINECA the following steps are required:

1. Download the Gateway User Agreement (GUA) here: [📄 Editable PDF file \(.pdf\)](#)
2. Fill and sign the GUA, send it via e-mail to EUROfusion Coordination Officer Denis Kalupin (Denis.Kalupin-at-euro-fusion.org), Subject: Gateway User Agreement
3. Request a userid and password to Gateway support.

MARCONI/GATEWAY status

The Gateway HPC infrastructure is an independent HPC system different from MARCONI FUSION partition, hence its status doesn't depend on the MARCONI status monitored [here](#).

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Getting access to computational resources

ITER Computing Cluster: <https://www.iter.org/accountcreation>

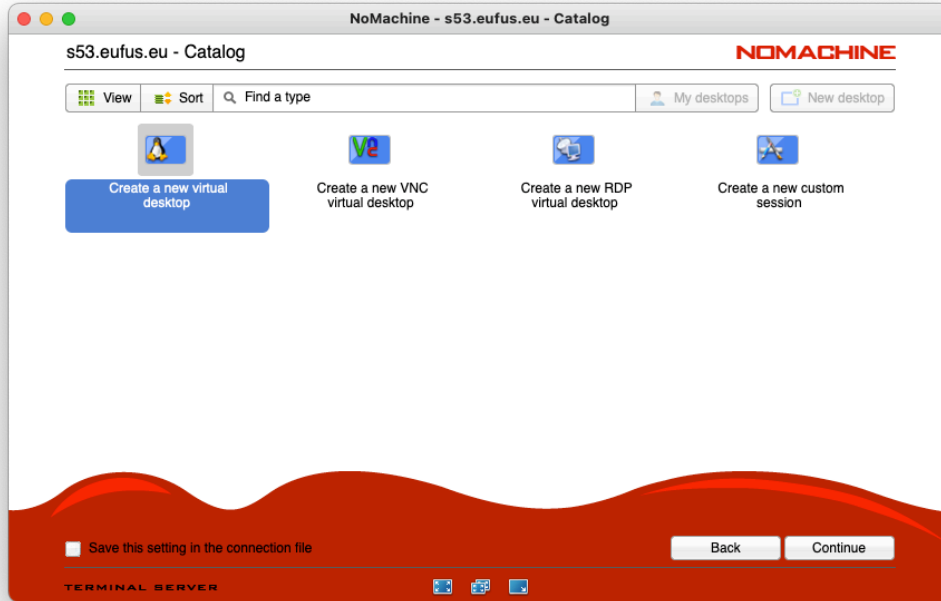
HOW TO APPLY FOR AN ITER ACCOUNT

In order to access ITER internal services, including IDM or the ITER Techweb, an ITER computer account is needed---

To apply for an ITER computer account, please send an e-mail to idm.accounts@iter.org.

Connecting to remote machines

Gateway: s51-s54.eufus.eu



https://wiki.eufus.eu/doku.php?id=namespace:connecting_to_the_gateway

Connecting to remote machines

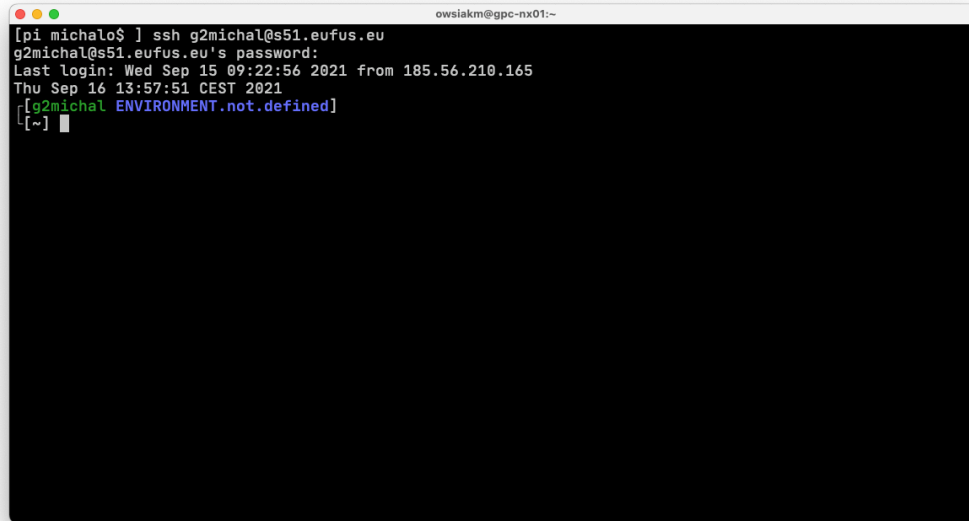
ITER Computing Cluster: sdcc-login.iter.org



<https://confluence.iter.org/display/IMP/ITER+Computing+Cluster>

Connecting to remote machines

Gateway: [s51-s54.eufus.eu](https://wiki.eufus.eu/doku.php?id=namespace:connecting_to_the_gateway)



```
owsiakm@gpc-nx01:--
[pi_michalo$ ] ssh g2michal@s51.eufus.eu
g2michal@s51.eufus.eu's password:
Last login: Wed Sep 15 09:22:56 2021 from 185.56.210.165
Thu Sep 16 13:57:51 CEST 2021
[g2michal ENVIRONMENT.not.defined]
[~] █
```

https://wiki.eufus.eu/doku.php?id=namespace:connecting_to_the_gateway

Connecting to remote machines

ITER Computing Cluster: sdcc-login.iter.org

```
owsiakm@gpc-nx01--
[pi michalo$ ] ssh owsiakm@sdcc-login.iter.org
Password:
Last login: Thu Sep 16 13:56:39 2021 from ftth-nat-165.ip4.greenlan.pl

+-----+
|               Welcome owsiakm to the ITER SDCC Access               |
|               Have a nice day!                                       |
+-----+
|               Thu Sep 16 13:57:15 CEST 2021                           |
+-----+
|   ↓↓↓ FRONT SERVER - PLEASE 'ssh -X' TO A SERVER BELOW ↓↓↓   |
|   + Login nodes status                                           |
|   sdcc-login01 -> Uptime: 137 days, 16:56:24.64      Load: 2.96 3.71 3.99 |
|   sdcc-login02 -> Uptime: 177 days, 21:28:51.72      Load: 12.43 4.68 3.23 |
|   sdcc-login03 -> Uptime: 72 days, 1:54:00.25       Load: 2.13 2.31 2.47 |
|   ↑↑↑ FRONT SERVER - PLEASE 'ssh -X' TO A SERVER ABOVE ↑↑↑   |
+-----+
| For graphical environment, connect with NoMachine Client to sdcc-login.iter.org:4000 |
| For Nomachine Web-based, point your web browser to https://sdcc-login.iter.org      |
| Please connect (ssh -X) to the LEAST LOADED login node, above                    |
| To hide this motd, create a .nomotdix file in your home folder                  |
+-----+

[owsiakm@gpc-nx01]-----[13:57:15]
[~] █
```

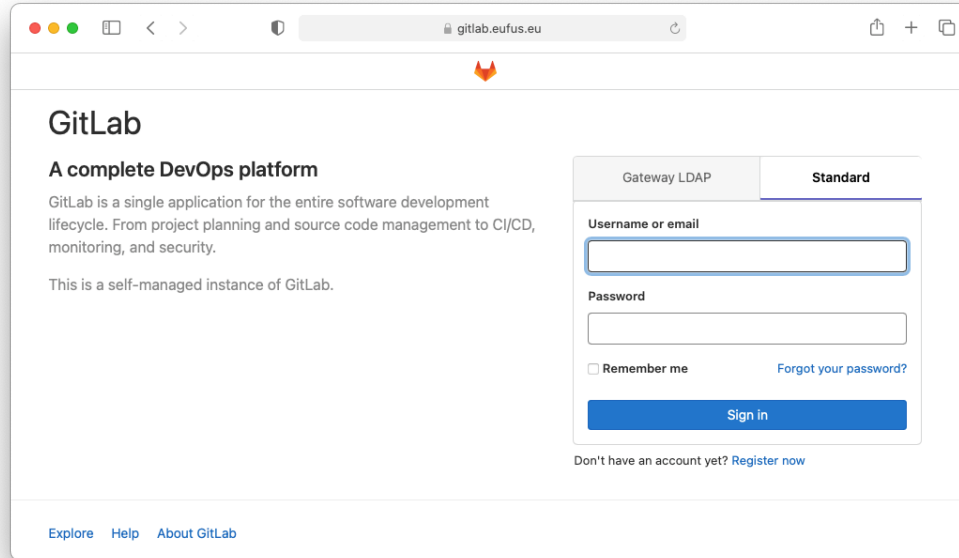
<https://confluence.iter.org/display/IMP/ITER+Computing+Cluster>

Loading IMAS environment

| | Gateway | ITER |
|--------------------------|----------------------------------|-------------------------------|
| Loading IMAS environment | <code>module load imasenv</code> | <code>module load IMAS</code> |
| Browsing Data Dictionary | <code>dd_doc</code> | <code>dd_doc</code> |

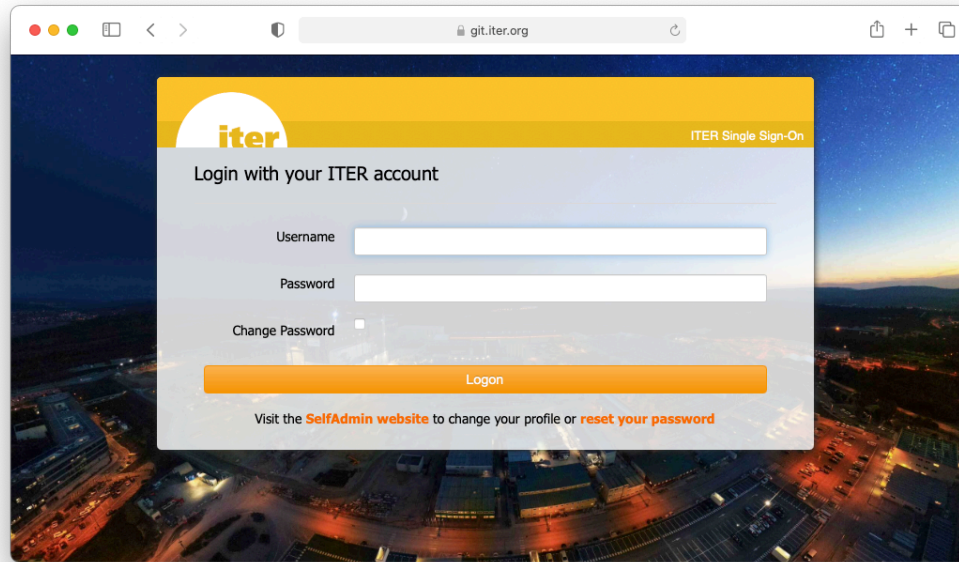
Working with source code

Gateway: <https://gitlab.eufus.eu>



Working with source code

ITER Computing Cluster: <https://git.iter.org>



Working with issues

Gateway - Issues with GW configuration, missing libraries, etc.

<https://gforge-next.eufus.eu/#/project/generalsupport/tracker/184/browse>

ITER - Malfunctioning or feature requests regarding tools and libraries owned by ITER

<https://jira.iter.org/>

Working with issues

Reporting a bug in "proper" way can greatly reduce response time

- IMAS versios, Data Dictionary version
- Location of application, source code, means of building and running the code
- Source code and **Makefile**, **CMakeLists.txt**
- Link to any documentation that allows to get familiar with the code
- Your environment settings
 - preferably, script that sets up the environment exactly the same way you have it set

source ~/YOUR_LOGIN/your_script_and_we_have_everything_set_up_as_you_do

- Your environment variables

env > ~/my_environment_while_spotting_the_bug

- Your module list

module list > ~/my_module_list_while_sporring_the_bug

PSNC ACH (ACH-04) - Cooperation with TSVVs

Different aspects of the cooperation

- Discussing problems/issues/activities
 - Video conference systems (GotoMeeting - WebEx - Zoom)
 - Slack
- Tracking issues
 - GForge (will be mentioned at the end of the training)
 - JIRA (will be mentioned at the end of the training)
 - Trello (we already share Trello boards with some of TSVVs)
- Help people during the process of code adaptation (e.g. explaining IMAS related topics)
 - Trainings - like this one
 - Tutorial pages: <https://docs.psnc.pl/display/WFMS/ACH>
 - Demo movies (recorded training sessions)
 - microCodeCamps
- Mailing list
 - ach-psnc@lists.man.poznan.pl - every ACH member gets the copy

Questions?

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marcin.plociennik@man.poznan.pl

PSNC ACH (ACH-04) page:

<https://wiki.euro-fusion.org/wiki/ACH-04>

training materials:

<https://docs.psnc.pl/display/WFMS/Tutorial+-+adapting+codes+to+IMAS>

mailing list:

ach-psnc@lists.man.poznan.pl