



# Supporto utenti e politiche di accesso

Corso di formazione per utenti DataCloud

WP2 DataCloud

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# Outline



- User Support – WP2 DataCloud
- Access Policies
  - Prerequisites
  - How to obtain INFN Cloud user account
  - How to request joining INFN Cloud IAM group
  - How to obtain system administrator role



# User support

WP2 DataCloud



# WP2 DataCloud



- Documentation
- User Support
- Communication and Training

# INFN Cloud Documentation



- The INFN Cloud User Guide can be found at <https://guides.cloud.infn.it/docs/users-guides/en/latest/>

A screenshot of the INFN Cloud documentation homepage. The header is blue with the INFN Cloud logo and the text 'INFN Cloud'. Below the logo is a search bar labeled 'Search docs'. The main content area is dark grey and contains a table of contents with sections for 'GETTING STARTED' and 'CENTRALISED SERVICES'.

INFN Cloud

latest

Search docs

GETTING STARTED

- Getting Started
- How To: Request the "nomination to be system administrator"
- How To: Request the "nomination to be system administrator" (italian version)

CENTRALISED SERVICES

- Use the INFN Cloud Registry service
- Use the INFN Cloud object storage service
- Use the Notebooks as a Service

Docs » Getting Started

[View page source](#)

## Getting Started

### Table of Contents

- [Getting Started](#)
  - [Using INFN Cloud](#)
    - [Prerequisites for using INFN Cloud resources](#)
  - [Registration in the INFN Cloud IAM](#)
  - [SSH Keys](#)

## Using INFN Cloud

You can use INFN Cloud for:

- access a centralized service, directly managed by the INFN Cloud team
- access a service that someone else has deployed and enabled the access for you;
- create one or more services on the INFN Cloud infrastructure. You will then be responsible for the administration of such services for your own use or for a group of users that you'll enable.

# INFN Cloud Documentation



- The INFN Cloud User Guide can be found at <https://guides.cloud.infn.it/docs/users-guides/en/latest/>
- General guides starting from how to get an account

<b>GETTING STARTED</b>	<b>GENERAL-PURPOSE GUIDES</b>
⊕ Getting Started	⊕ Enable authenticated security scans
⊕ How To: Request the "nomination to be system administrator"	⊕ Create a customized docker image for services
⊕ How To: Request the "nomination to be system administrator" (italian version)	⊕ Associate a FQDN to your VMs
<b>CENTRALISED SERVICES</b>	⊕ Request membership to an IAM group
⊕ Use the INFN Cloud Registry service	⊕ Deployment on private network
⊕ Use the Notebooks as a Service solution	⊕ Access the INFN Cloud Object Storage from a scientific environment
⊕ Use the INFN Cloud object storage service	⊕ Access Sync&Share aaS cloud storage from a scientific environment
	⊕ Manage and use SSH keys to connect to the VMs

# INFN Cloud Documentation



- The INFN Cloud User Guide can be found at <https://guides.cloud.infn.it/docs/users-guides/en/latest/>
- General guides starting from how to get an account
- Specific use case guides

## STORAGE SOLUTIONS

- ⊕ Deploy Sync&Share aaS (sys-admin nomination required)

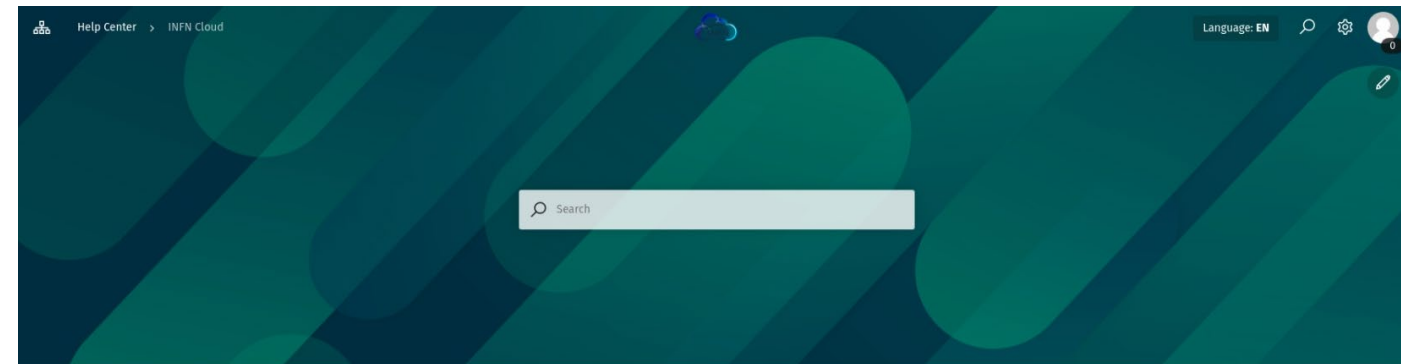
## COMPUTING SOLUTIONS

- ⊕ HTCondor mini user guide
- ⊕ Deploy Working Station for CYGNO Experiment (sys-admin nomination required)
- ⊕ Instantiate docker containers using custom docker-compose files (sys-admin nomination required)
- ⊕ Instantiate docker containers using docker run (sys-admin nomination required)
- ⊕ Deploy Elasticsearch & Kibana (sys-admin nomination required)
- ⊕ Deploy a HTCondor cluster on Kubernetes (sys-admin nomination required)
- ⊕ Run JupyterHub on a single VM enabling Notebooks persistence (sys-admin nomination required)
- ⊕ Deploy a Kubernetes cluster (sys-admin nomination required)
- ⊕ Manage VM ports
- ⊕ Run MATLAB Notebooks with persistence on a JupyterHub (sys-admin nomination required)
- ⊕ Deploy a Spark cluster + Jupyter notebook (sys-admin nomination required)

# INFN Cloud User Support



- A dedicated Service Desk portal is available at <https://servicedesk.cloud.infn.it/>
- A ticket can be also opened by sending an email at [cloud-support@infn.it](mailto:cloud-support@infn.it)





## Request Types

General Training Suggestions Technical Support

### General

 **account request**  
account request


 **Resources and Services for a new project**  
Do you need more resources to support the activities of a collaboration or project? Select this to request assistance.

 **Services trial questions**  
Want to see if our services can fit your workflows? Trying out our services and want more information? Select this and we'll be happy to answer your questions.


 **Technical support**  
Need help using one of the solutions from the INFN Cloud Service Catalog? Want to register? Select this to request assistance.

 **Technical support for Security Issues**  
Need help in addressing security vulnerabilities? Select this to request assistance.

 **Report a bug**  
Tell us the problems you're experiencing.

 **Training**  
Need training on specific INFN Cloud arguments? Let us know what are the fields of your interest and will find the right tutors and organize together the content of the training.

 **Hosting infrastructure for Training activities**  
Need a virtual infrastructure to use for your hands-on tutorials and courses. Select this to ask for a "training hosting infrastructure"

 **Suggest a new feature**  
Let us know your idea for a new feature.

 **Suggest improvement**  
See a place where we can do better? We're all ears.

 **Other questions**  
Don't see what you're looking for? Select this option and we'll help you out.



# INFN Cloud Training



- **Webinars:** Youtube channel with videos dedicated to most of the services
- **Training Events:** like the one you are following right now!

The screenshot shows the INFN Cloud website's 'Webinars Collection' page. The page has a dark blue header with the INFN Cloud logo and navigation links: Home, About us, Services, Resources, Documentation, News & Events, Training, and Contacts. Below the header, there is a section titled 'Visit our Webinars Collection' with a link to the collection. To the right, there is a video player showing a YouTube channel page for 'INFN Cloud' with a 'Subscribe' button. Below the video player, there is a list of available webinars, each with a play button icon and a link to the video.

Visit our [Webinars Collection](#)

Available webinars:

- ▶ [Introduction to INFN Cloud](#)
- ▶ [Getting Started](#)
- ▶ HowTOs
  - ▶ [Ssh key deployment](#)
  - ▶ [VM with persistent storage](#)
  - ▶ [Kubernetes](#)
  - ▶ [Deployment di Spark + Jupyter su INFN Cloud](#)
  - ▶ [Container deployment through INFN Cloud dashboard](#)
  - ▶ [Docker compose via INFN Cloud dashboard](#)
  - ▶ [Elasticsearch + Kibana deployment via INFN Cloud dashboard](#)
  - ▶ [INFN Cloud Notebook as a Service](#)
  - ▶ ..and much more on the youtube channel
- ▶ [Use Cases : Cygno \(Giovanni Mazzitelli\)](#)

# INFN Cloud access policies

INFN Cloud Account





# INFN Cloud Account

## Prerequisites

- Active INFN role (employee, associate, guest, ecc.)
- Verified digital identity (LoA2) on INFN-AAI, allowed to use INFN IT resources
- “Corso di Sicurezza Informatica - BASE”

For INFN employees and associates, is already satisfied.

# INFN Cloud Account



## What about users external to INFN that need to access INFN Cloud?

- First, you must first create a verified (LoA2) digital INFN-AAI identity
  - **It is straightforward with a SPID or CIE (*carta di identità elettronica*)**
  - If SPID/CIE is not an option (non-Italian citizens) an alternative procedure is being developed for such cases

**IN PROGRESS**

# Creating a LoA2 INFN-AAI with SPID/CIE



- Connect to <https://userportal.app.infn.it/>
- Select either the **SPID** or **CIE** option, depending on what ID you possess

A screenshot of the INFN user portal login page. The page features the INFN CCR-AAI logo at the top left and 'IT | EN' at the top right. Below the logo are two input fields: 'Username o e-mail' and 'Password'. There are three main buttons: 'ACCEDI' (orange), 'REGISTRATI' (blue), and 'Cambio o Rigenerazione Password - Recupero Username' (blue). Below these are two more buttons: 'CERTIFICATO X509' and 'KERBEROS - GSSAPI'. At the bottom, there are two buttons for external authentication: 'Entra con SPID' (blue) and 'Entra con CIE' (blue). The 'Entra con SPID' button is highlighted with a red border, and the 'Entra con CIE' button is highlighted with a purple border.

# Creating a LoA2 INFN-AAI with SPID/CIE



- Connect to <https://userportal.app.infn.it/>
- Select either the SPID or CIE option, depending on what ID you possess
- Complete the login process in the platform you chose

The image displays two screenshots of the login process. The left screenshot shows the SPID login page with fields for 'NOME UTENTE' (with a placeholder 'inserisci e-mail') and 'PASSWORD' (with a placeholder 'inserisci password'). It includes a QR code, a 'Poste ID NUOVO ASLUTIVO spid' logo, and a 'MINISTERO DELL'INTERNO' logo. Below the fields are buttons for 'ANNULLA' and 'ENTRA CON SPID'. The right screenshot shows the CIE login page with a 'RICHIESTA D'ACCESSO CIE LIVELLO 2 INPS' header. It features two main options: 'Entra con le tue credenziali CIE' (with fields for 'Numero CIE o Codice fiscale o Email' and 'Password') and 'Entra con App CielD' (with a QR code). Below these are buttons for 'Annulla' and 'Procedi'. At the bottom, there is an option for 'Entra con lettura carta' with a button 'Entra con lettura carta CIE' and a link 'Scopri di più.'.

# Creating a LoA2 INFN-AAI with SPID/CIE



- Congratulations, you have just created your verified (LoA2) INFN-AAI identity.
- That was easy!

The screenshot shows the 'INFN User Portal' interface. On the left is a dark sidebar with the user's name 'Alessandro Alberto Oliva' and a list of menu items: 'Profilo', 'Indirizzi email', 'Titoli di studio', 'Abilitazioni', and 'Ospitalità'. The main content area is titled 'Profilo' and contains a section 'Informazioni personali' with the following data:

Informazioni personali	
Nome	Alessandro Alberto
Cognome	Oliva
Sesso	Maschio
Nazionalità	ITALIA
Data di nascita	28/05/1985
Luogo di nascita	CATANZARO
Codice fiscale	1474389010000000000
infNUUID	00000000-0000-0000-0000-000000000000

# Creating a LoA2 INFN-AAI without SPID/CIE



- This procedure is for such cases when the user cannot obtain a SPID/CIE
- An unverified INFN-AAI identity should be first created by clicking the “register” option at <https://userportal.app.infn.it/>

A screenshot of the INFN CCR-AAI user portal login page. The page features the INFN CCR-AAI logo at the top left and a language selector 'IT | EN' at the top right. Below the logo is a login form with two input fields: 'Username o e-mail' and 'Password'. Underneath the form are two buttons: an orange 'ACCEDI' button and a blue 'REGISTRATI' button. A red box highlights the 'REGISTRATI' button, and a red arrow points to it from the left. Below these buttons is a link for 'Cambio o Rigenerazione Password - Recupero Username'. Further down are two blue buttons: 'CERTIFICATO X509' and 'KERBEROS - GSSAPI'. At the bottom of the page are two more blue buttons: 'Entra con SPID' and 'Entra con CIE'.



# Creating a LoA2 INFN-AAI without SPID/CIE



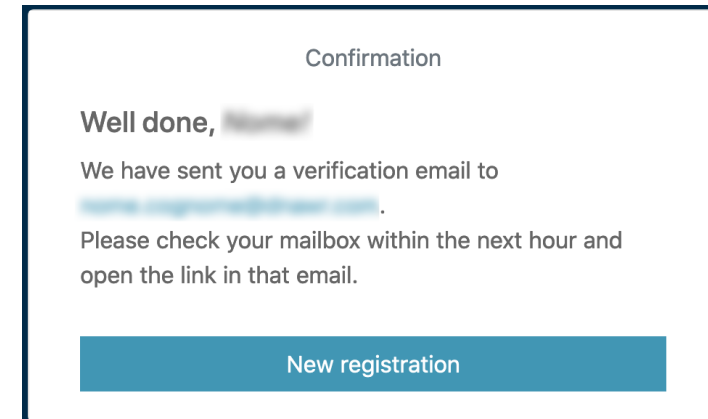
- Fill the form with your data, taking extra care for the email address and password
- Italian tax code field is optional (*if you have a C.F. you should be also eligible for a SPID -> use previous procedure!*)

A screenshot of the INFN registration form titled 'Register a new identity'. The form is set against a dark blue background with the INFN logo and 'Istituto Nazionale di Fisica Nucleare' text at the top. The form fields include: 'First name', 'Last name', 'Email address', 'Password', 'Retype password', 'Month of birth' (dropdown), 'Day', 'Year', 'Italian city or country of birth' (dropdown), 'Nationality' (dropdown), 'Gender' (dropdown), and 'Italian tax code'. At the bottom, there is a reCAPTCHA widget with the text 'I'm not a robot' and a 'Register' button.

# Creating a LoA2 INFN-AAI without SPID/CIE



- You will see a confirmation message that your request has been received
- A verification email has been sent to the provided address, click on the **link** inside



Dear [redacted],  
you started the INFN profile creation process. To continue, you need to verify that [redacted] is indeed your email address. Please click the following link to continue the registration process:

[https://signup.app-pre.infn.it/verify/\[redacted\]](https://signup.app-pre.infn.it/verify/[redacted])

Best regards,  
INFN-AAI team

This is an autogenerated mail. Please do not respond to it.

# Creating a LoA2 INFN-AAI without SPID/CIE



- Your email is now verified and your LoA1 account should be active

## Email verification

Congratulation. Your email is correctly verified. You will receive a confirmation by email when your account will be active.

- [Agenda](#)
- [Associations](#)
- [Recruitment](#)
- [User portal](#)

# Creating a LoA2 INFN-AAI without SPID/CIE



- Your email is now verified and your LoA1 account should be active
- You can use it alongside the password to login at <https://userportal.app.infn.it/>

A screenshot of the INFN CCR-AAI login portal. The page features the INFN logo and 'CCR - AAI' text at the top. Below the logo is a language selector 'IT | EN'. The main content area contains a login form with two input fields: 'Username o e-mail' and 'Password', both enclosed in a red rectangular box. Below the form are three buttons: 'ACCEDI' (orange), 'REGISTRATI' (blue), and a link for 'Cambio o Rigenerazione Password - Recupero Username'. Further down are two more blue buttons: 'CERTIFICATO X509' and 'KERBEROS - GSSAPI'. At the bottom, there are two blue buttons for external authentication: 'Entra con SPID' and 'Entra con CIE'. A red arrow points from the left side of the slide to the 'ACCEDI' button.

# Creating a LoA2 INFN-AAI without SPID/CIE



- Your email is now verified and your LoA1 account should be active
- You can use it alongside the password to login at <https://userportal.app.infn.it/>
- After the login, your profile page should open

A screenshot of the INFN User Portal interface. The left sidebar shows the user's name 'Alessandro Alberto Oliva' and navigation options: Profile, Emails, Qualifications, Enabling requests, and Guest Access. The main content area displays the 'Profile' page with a 'Personal information' section containing the following data:

Personal information	
First name	Alessandro Alberto
Last name	Oliva
Gender	MALE
Nationality	ITALIA
Date of birth	1988-01-01
Place of birth	ROMA
Fiscal code	000000000000000000
infUID	00000000-0000-0000-0000-000000000000

# Creating a LoA2 INFN-AAI without SPID/CIE



- To verify the identity and upgrade to LoA2 you should click on **“Enabling request”**

The screenshot shows the INFN User Portal interface. On the left, a dark sidebar contains a menu with the following items: Profile, Emails, Qualifications, **Enabling requests** (highlighted with a red box), and Guest Access. The main content area displays the 'Profile' page for user Alessandro Alberto Oliva. The profile information is as follows:

Personal information	
First name	Alessandro Alberto
Last name	Oliva
Gender	MALE
Nationality	ITALIA
Date of birth	05/05/1985
Place of birth	VERONA
Fiscal code	00000000000000000000
infUID	00000000-0000-0000-0000-000000000000

# Creating a LoA2 INFN-AAI without SPID/CIE



- To verify the identity and upgrade to LoA2 you should click on “Enabling request”
- Select “Verify identity”

A screenshot of the INFN User Portal interface. On the left is a dark sidebar with the 'INFN User Portal' header and a user profile for 'Alessandro Alberto Oliva'. The sidebar menu includes 'Profile', 'Emails', 'Qualifications', 'Enabling requests' (highlighted in blue), and 'Guest Access'. The main content area is titled 'Enabling requests' and contains a section 'Select the requests' with three toggle options: 'Verify identity' (which is checked and highlighted with a red box), 'IT resources', and 'Economic ties'. Each option has a brief explanatory text below it. At the bottom of the main area are 'Previous' and 'Next step' buttons.

# Creating a LoA2 INFN-AAI without SPID/CIE



- To verify the identity and upgrade to LoA2 you should click on “Enabling request”
- Select “Verify identity”
- Press “Next step” button

A screenshot of the INFN User Portal interface. On the left is a dark sidebar with the user's name 'Alessandro Alberto Oliva' and navigation options: Profile, Emails, Qualifications, Enabling requests (highlighted in blue), and Guest Access. The main content area is titled 'Enabling requests' and contains a section 'Select the requests' with three toggle options: 'Verify identity' (which is selected and highlighted with a blue box), 'IT resources', and 'Economic ties'. Each option has a brief explanatory text below it. At the bottom of the page are 'Previous' and 'Next step' buttons, with a large blue arrow pointing from the 'Next step' button to the right.





# Creating a LoA2 INFN-AAI without SPID/CIE



- Choose the INFN site and the contact person that will verify your identity.

### Enabling requests

 Site where verify your identity

 Your identity must be verified. Please select the INFN site where you prefer to be vetted. You will be contacted by the appointed office.

**Verification site**

**Message to verification office (Optional)**


[Previous](#) [Next step](#)


# Creating a LoA2 INFN-AAI without SPID/CIE



- Choose the INFN site and the contact person that will verify your identity.
- INFN staff/associates:
  - *the site should be your Section/Laboratory of reference*

### Enabling requests

 Site where verify your identity

 Your identity must be verified. Please select the INFN site where you prefer to be vetted. You will be contacted by the appointed office.

**Verification site**

**Message to verification office (Optional)**


[Previous](#) [Next step](#)


# Creating a LoA2 INFN-AAI without SPID/CIE



- Choose the INFN site and the contact person that will verify your identity.
- External users: **IN PROGRESS**
  - a site named «CCR» will be available for ICSC projects
  - the verification will be carried out over an online video call with a member of the INFN Cloud user support
  - please keep your ID with you and check that your webcam is working before starting the call

### Enabling requests

 Site where verify your identity

 Your identity must be verified. Please select the INFN site where you prefer to be vetted. You will be contacted by the appointed office.

**Verification site**

**Message to verification office (Optional)**

[Previous](#) [Next step](#)



# Request access to INFN IT resources

- Once you have a LoA2 INFN AAI account you can request the access to INFN IT resources
  - That includes INFN Cloud!

# Request access to INFN IT resources

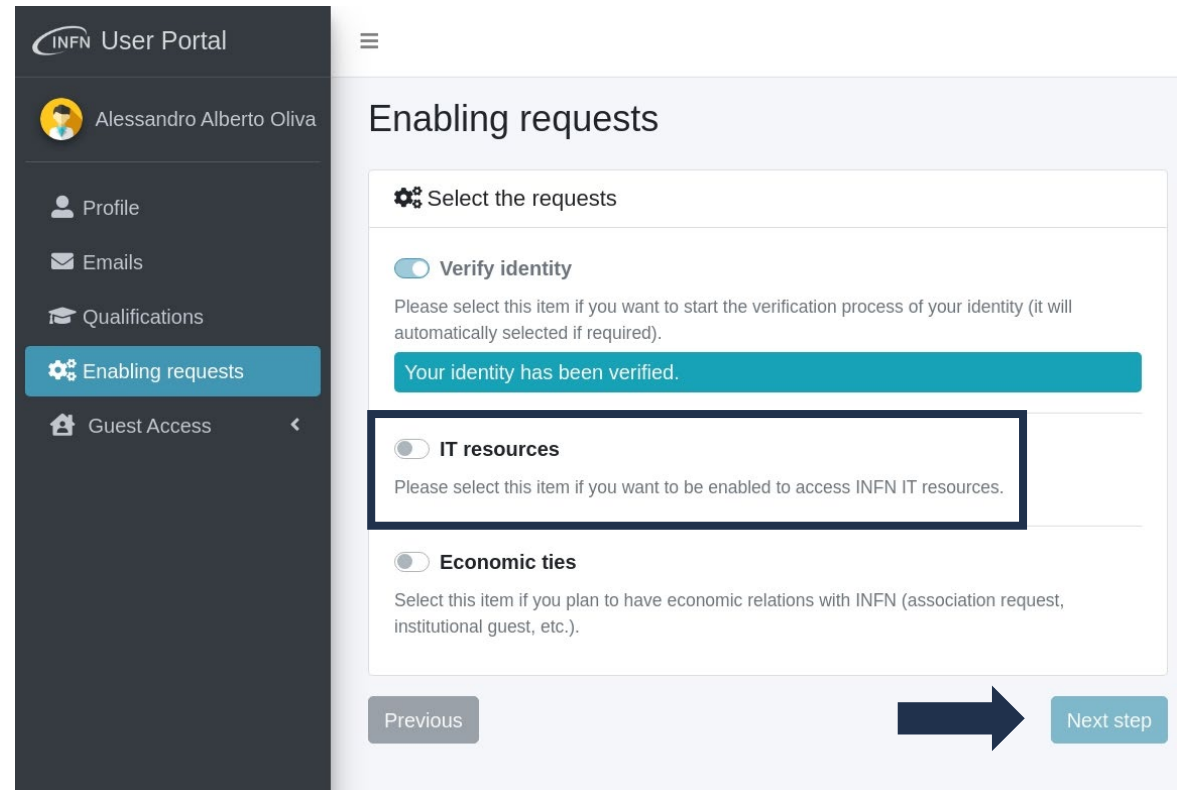


- Once you have a LoA2 INFN AAI account you can request the access to INFN IT resources
  - That includes INFN Cloud!
- Login into your user portal and click on “Enabling requests”

A screenshot of the INFN User Portal interface. On the left is a dark sidebar with the 'INFN User Portal' header and a user profile for 'Alessandro Alberto Oliva'. The sidebar menu includes 'Profile', 'Emails', 'Qualifications', 'Enabling requests' (highlighted in blue), and 'Guest Access'. The main content area is titled 'Enabling requests' and contains a section 'Select the requests' with three toggle options: 'Verify identity' (checked), 'IT resources', and 'Economic ties'. A teal notification bar states 'Your identity has been verified.' At the bottom are 'Previous' and 'Next step' buttons.

# Request access to INFN IT resources

- Once you have a LoA2 INFN AAI account you can request the access to INFN IT resources
  - That includes INFN Cloud!
- Login into your user portal and click on “Enabling requests”
- Select “IT resources” and press Next step button



# Request access to INFN IT resources



- Fill the form with the required personal data
- Read and accept INFN rules for the processing of such personal data

### Enabling requests

**Personal information**

**i** If you want access to INFN IT resources, you have to compile the form in this page. Your personal data will be processed in compliance with the Regulation UE679/2019. **Data controller:** INFN - **Data Protection Officer:** dpo@infn.it

<b>First name</b>	<input type="text"/>	<b>Last name</b>	<input type="text"/>
<b>Gender</b>	<input type="text"/>	<b>Nationality</b>	<input type="text"/>
<b>Date of birth</b>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Place of birth</b>	<input type="text"/>		
<b>Fiscal code</b>	<input type="text"/>		

**Processing of personal data**

I declare that I have read the general information note on processing of personal data

INFN rules for the processing of personal data

# Request access to INFN IT resources



- Select the INFN site and the contact person that will approve your request to access INFN IT resources

### Enabling requests

**⚙️ Contact person that guarantees for your use of IT resources**

**ℹ️** You must define your INFN contact person. Select the INFN site and then the person. You can also send a short message to your INFN contact.

**Contact's site**

**Contact's name**

**Message to INFN contact (Optional)**

**📄 Regulation**

**I declare that I have read and accept the disciplinary regulation**

Regulation for the use of INFN information technology resources

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# Request access to INFN IT resources



- Select the INFN site and the contact person that will approve your request to access INFN IT resources
- INFN staff/associates:
  - the site should be your Section/Laboratory of reference
  - the contact person usually is the head of the IT dept.

### Enabling requests

**⚙️ Contact person that guarantees for your use of IT resources**

**ℹ️** You must define your INFN contact person. Select the INFN site and then the person. You can also send a short message to your INFN contact.

**Contact's site**

**Contact's name**

**Message to INFN contact (Optional)**

**📄 Regulation**

**I declare that I have read and accept the disciplinary regulation**

Regulation for the use of INFN information technology resources

[Previous](#) [Next step](#)

# Request access to INFN IT resources

- Select the INFN site and the contact person that will approve your request to access INFN IT resources
- External users: **IN PROGRESS**
  - a site named «CCR» will be available for ICSC projects
  - the contact will be a member of WP2 DataCloud

### Enabling requests

**⚙️ Contact person that guarantees for your use of IT resources**

**ℹ️** You must define your INFN contact person. Select the INFN site and then the person. You can also send a short message to your INFN contact.

**Contact's site**

**Contact's name**

**Message to INFN contact (Optional)**

**📄 Regulation**

**I declare that I have read and accept the disciplinary regulation**

Regulation for the use of INFN information technology resources

[Previous](#) [Next step](#)

# Request access to INFN IT resources



- Select the INFN site and the contact person that will approve your request to access INFN IT resources
- Read and accept disciplinary regulation for the use of INFN IT resources

### Enabling requests

Contact person that guarantees for your use of IT resources

You must define your INFN contact person. Select the INFN site and then the person. You can also send a short message to your INFN contact.

**Contact's site**

**Contact's name**

**Message to INFN contact (Optional)**

Regulation

I declare that I have read and accept the disciplinary regulation

Regulation for the use of INFN information technology resources

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# Request access to INFN IT resources



- Your request is now submitted
- The chosen contact person will go through your request and approve/refuse it as soon as possible



# INFN Cloud Account

## Prerequisites

- Active INFN role (employee, associate, guest, ecc.)
- Verified digital identity (LoA2) on INFN-AAI, allowed to use INFN IT resources
- “Corso di Sicurezza Informatica - BASE”

Once you met the prerequisites, you can submit a request through the Identity and Access Management (IAM) platform of INFN Cloud.

In doing so you accept the **INFN Cloud Acceptable Usage Policy (AUP)**, please take the time to read it.

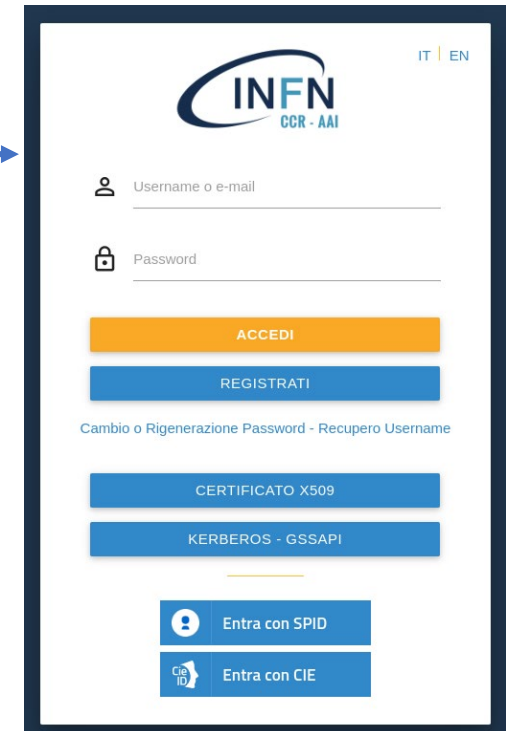
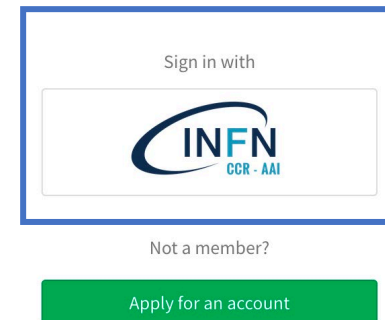
# INFN Cloud: Request user account



- Go to: <https://iam.cloud.infn.it/>
- Click on "Sign in with INFN CCR-AAI"
- Sign in with your INFN CCR-AAI account

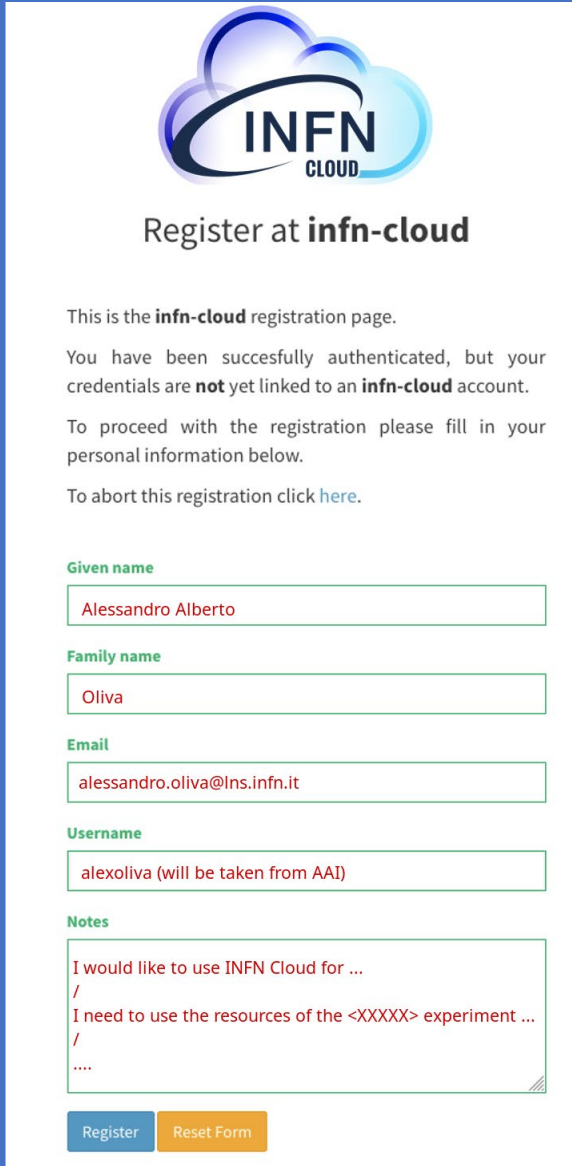


Welcome to **infn-cloud**



# INFN Cloud: Request user account

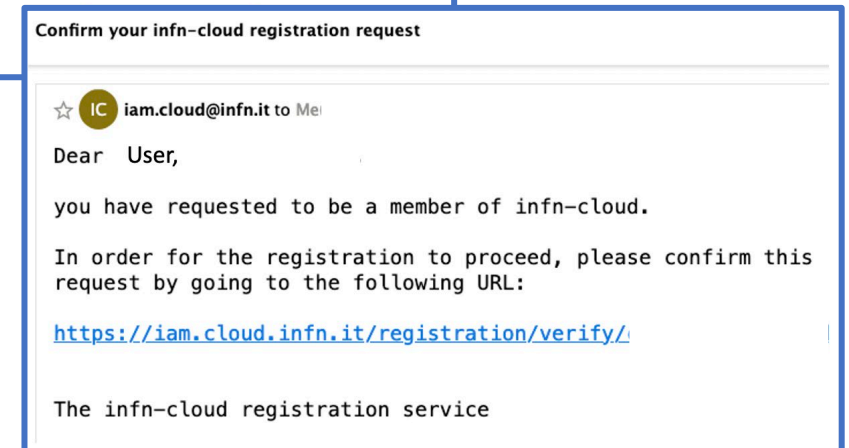
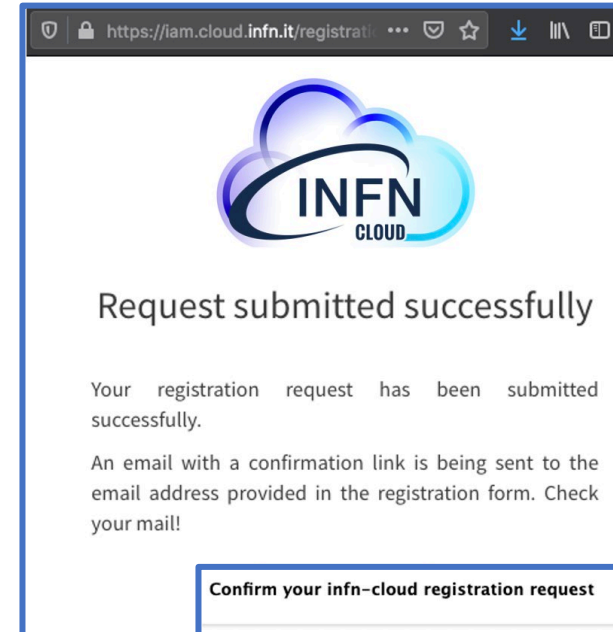
- Go to: <https://iam.cloud.infn.it/>
- Click on "Sign in with INFN CCR-AAI"
- Sign in with your INFN CCR-AAI account
- Compile the request form



The screenshot shows the registration page for INFN Cloud. At the top, there is the INFN Cloud logo and the heading "Register at infn-cloud". Below this, there is a message: "This is the infn-cloud registration page. You have been successfully authenticated, but your credentials are **not** yet linked to an infn-cloud account. To proceed with the registration please fill in your personal information below. To abort this registration click [here](#)." The form contains several input fields: "Given name" with the value "Alessandro Alberto", "Family name" with "Oliva", "Email" with "alessandro.oliva@Ins.infn.it", and "Username" with "alexoliva (will be taken from AAI)". There is also a "Notes" section with a text area containing the text: "I would like to use INFN Cloud for ... / I need to use the resources of the <XXXXX> experiment ... / ....". At the bottom of the form, there are two buttons: "Register" and "Reset Form".

# INFN Cloud: Request user account

- Go to: <https://iam.cloud.infn.it/>
- Click on "Sign in with INFN CCR-AAI"
- Sign in with your INFN CCR-AAI account
- Compile the request form
- Approve the verification email: a ticket to the support team will be opened on your behalf





# INFN Cloud: Request user account



- A member of the INFN Cloud user support will get back to you via the ticketing system and approve/refuse your request as soon as possible

A screenshot of the INFN Cloud user support ticketing system. The page title is 'New infn-cloud account request' with the ID '(INFNCLOUD-1071)'. The status is 'RESOLVED'. The activity log shows a message from Carmelo Pellegrino dated 18/May/23 10:53 AM, marked as 'LATEST'. The message reads: 'Ciao Alessandro, grazie della nomina. Ti abbiamo aggiunto ai gruppi infn-cloud-catchall e admins/beta-testers. Inoltre ti abbiamo aggiunto qui su servicedesk come membro del team. A presto! Carmelo'. A notification bar at the bottom states: 'Your request status changed to Resolved with resolution Done 18/May/23 10:53 AM'. The right sidebar includes a 'Don't notify me' option, 'REQUEST PARTICIPANTS' section with a 'Share' button, and the user 'Alessandro Alberto Oliva' listed as the 'Creator'.

# INFN Cloud centralized services



- Once approved, your user account will give you access to centralized services (see F. Fanzago's lesson tomorrow!)

⚙️ CENTRALISED SERVICES

A red circular icon with a stylized white 'O' shape inside.

**INFN Cloud object storage**  
the centrally managed service based on Ceph Rados-Gateway

🔖

**GO TO SERVICE →**

The Jupyter logo, featuring an orange circle with a white 'j' and the word 'upyter' below it.

**Notebooks as a Service (NaaS)**  
Jupyter Notebooks as a Service

🔖

**GO TO SERVICE →**

The Harbor logo, featuring a green lighthouse icon inside a circle with the word 'HARBOR' below it.

**INFN Cloud Registry**  
The centrally managed service INFN Cloud Registry, based on Harbor

🔖

**GO TO SERVICE →**

A stylized orange and yellow gear-like icon with a white spiral inside.

**INFN-Cloud monitoring**  
the INFN-Cloud monitoring service

🔖

**GO TO SERVICE →**

# INFN Cloud custom services



- You may get access to multi-users services managed by a system administrator
- If you need to use resources assigned to a specific research group you should request the access to the corresponding IAM group



## Computational envirom...

Run a single VM with exposing both ssh access and multiuser JupyterHub interface, integrating the AI-INFN environment

**CONFIGURE →**



## Working Station for ...

Run a single VM with all the CYGNO environment exposing both ssh access and Jupyter

**CONFIGURE →**

# Request access to IAM group



- Login to INFN Cloud IAM <https://iam.cloud.infn.it>

The screenshot shows the user profile page for Alessandro Alberto Oliva in the INFN Cloud IAM system. The page is divided into three main sections: a left sidebar, a central profile card, and a right-hand panel.

**Left Sidebar (Navigation):**

- Account Management
  - Home
- Organization Management
  - Users (515)
  - Groups (61)
  - Requests
  - AUP
  - Clients
  - Tokens (29445)
  - Scopes (29)
- Client management
  - MitreID Dashboard

**Central Profile Card (Alessandro Alberto Oliva):**

- Role: VO administrator
- Username: alexoliva
- ID: f4ef6f22-edfe-42a5-944c-cd596ed3eb55
- Email: alessandro.oliva@lns.infn.it
- Status: Active
- Created: a year ago
- Updated: 3 months ago
- End time: N/A
- Signed AUP: a year ago
- Actions: Edit Details, Change membership end time, Change Password

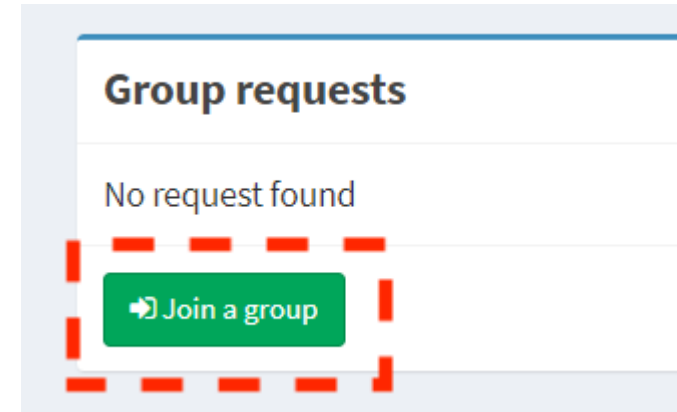
**Right Panel (Groups and Requests):**

- Groups:** A list of groups with a 'Remove' button for each.

Group Name	Action
admins	Remove
admins/beta-testers	Remove
admins/catchall	Remove
end-users-catchall	Remove
priv-admins	Remove
priv-admins/catchall	Remove
users	Remove
users/catchall	Remove
users/naas	Remove
users/s3	Remove
- Group requests:** No request found.

# Request access to IAM group

- Login to INFN Cloud IAM  
<https://iam.cloud.infn.it>
- Select “Join a group”  
under Group requests  
section



# Request access to IAM group

- Login to INFN Cloud IAM  
<https://iam.cloud.infn.it>
- Select “Join a group”  
under Group requests  
section
- Fill the form properly

Join group(s)?

Select one or more groups **Start typing here the name of a group to join - a menu selector will show up**

Only groups you're not already a member of or for which there's no pending request will be shown...

Type something...

Provide a motivation for your request(s) **Type here a reasonable motivation**

This motivation will be show to the administrators that will manage your request

Explain why you want to be a member of group ...

Join group(s) Cancel



# Request access to IAM group

- Login to INFN Cloud IAM  
<https://iam.cloud.infn.it>
- Select “Join a group”  
under Group requests  
section
- Fill the form properly

Join group(s)?

**Select one or more groups**  
Only groups you're not already a member of or for which there's no pending request will be shown...

users/cygn0 ✕

**Provide a motivation for your request(s)**  
This motivation will be show to the administrators that will manage your request

Access to the cygn0 resources



# Request access to IAM group

- Login to INFN Cloud IAM <https://iam.cloud.infn.it>
- Select “Join a group” under Group requests section
- Fill the form properly
- A support ticket will be automatically opened
- Wait for the approval by:
  - IAM admin for *admins/\** requests
  - Group Manager for *users/\** requests





# On-demand deployments

To deploy an on-demand service you have two options:

## 1. Multi-user deployment **with a public IP:**

- You need the **system administrator nomination**
- You have the **full responsibility of maintaining** the deployment (security updates/bugfix, known vulnerabilities, etc.)
- Please **read** the **INFN Cloud AUP** to understand your responsibilities

## 2. Private deployment **without public IP**

- No need for the sys-admin nomination
- Accessible via a VPN
- You are the only one who can use the deployment
- Treated in the same way as a personal computer



# On-demand deployments

- Periodic **security scans** of all the deployments are performed
- If your deployment has security issues you will receive an email alert with a detailed report and (if available) suggestions on how to resolve/mitigate them.
- **A failure to comply with the instructions may result in the termination of the deployment and the user ban**

# INFN Cloud: Request sys-admin nomination



## INFN staff/associates

- You must receive the “*nomination to be system administrator*” from the Director of your INFN Section or Laboratory
- You can use the public template available in the INFN “Libro Firma”
- More info on this procedure can be found in the user guide

A screenshot of the INFN Cloud web interface. The top navigation bar includes the INFN logo, 'Home &gt; Crea Dst', a red '+ Nuova' button, a bell icon, and a user profile icon labeled 'AAD'. Below the navigation bar, there are tabs for 'Nuova Transazione' and 'Nuova da Modello'. A pagination control shows 'Elementi per pagina 10' and '1 - 10 di 20'. The main content area displays a list of documents. The first document is 'Silvia Cappelli' with the title 'RICHIESTA DI TRASFERTA ALL'ESTERO (versione 29.6.2021)'. The second document, 'Claudio Grandi', has the title 'Nomina ad amministratore INFN Cloud (quale utente amministratore)' and is highlighted with a red rectangular box. The third document is 'Lucio Toscano' with the title 'LNS: Nota di carico'. Each document entry includes a vertical ellipsis menu icon and a 'Pubblicata' button.

# INFN Cloud: Request sys-admin nomination



## External users

- You must receive the “*nomination to be system administrator*” from your employer
- You can use the specific template that will be made available soon
- More info on this procedure will be shared in the near future



# INFN Cloud: First steps



- More info on what we have seen so far can and specific guides for all the INFN Cloud services can be found in the

[INFN Cloud user guide](#)

A screenshot of the INFN Cloud documentation website. The header shows 'INFN Cloud' with a home icon and the INFN Cloud logo. Below the logo is the word 'latest' and a search bar labeled 'Search docs'. The main content area is dark blue and lists sections: 'GETTING STARTED' with links to 'Getting Started' and two 'How To' guides for requesting system administrator status; and 'CENTRALISED SERVICES' with links to 'Use the INFN Cloud Registry service', 'Use the INFN Cloud object storage service', and 'Use the Notebooks as a Service'.

[Docs](#) » [Getting Started](#)

[View page source](#)

## Getting Started

### Table of Contents

- [Getting Started](#)
  - [Using INFN Cloud](#)
    - [Prerequisites for using INFN Cloud resources](#)
  - [Registration in the INFN Cloud IAM](#)
  - [SSH Keys](#)

## Using INFN Cloud

You can use INFN Cloud for:

- access a centralized service, directly managed by the INFN Cloud team
- access a service that someone else has deployed and enabled the access for you;
- create one or more services on the INFN Cloud infrastructure. You will then be responsible for the administration of such services for your own use or for a group of users that you'll enable.

**Thank you for the attention!**

