NGC User Guide

Application Note
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Chapter 1. What is NVIDIA NGC?

NVIDIA NGC™ is the cloud platform offering fully managed services, including NeMo LLM, BioNemo, and Riva Studio for NLU and speech AI solutions. AI practitioners can take advantage of NVIDIA Base Command for model training, NVIDIA Fleet Command for model management, and the NGC Private Registry for securely sharing proprietary AI software. NGC also hosts a catalog of GPU-optimized AI software, SDKs, and Jupyter Notebooks that help accelerate AI workflows and offers support through NVIDIA AI Enterprise.

Enterprises gain access to their AI cloud services through a dedicated virtual NGC organization where their services are enabled.
Chapter 2. Why NGC Software

NGC provides software to meet the needs of data scientists, developers, and researchers with various levels of AI expertise.

Software hosted on NGC undergoes scans against an aggregated set of common vulnerabilities and exposures (CVEs), crypto, and private keys.

In addition to security scanning, NGC software is tested against a broad range of GPU-enabled platforms, including public cloud instances, workstations, and OEM servers targeted for data center or edge deployments. Supported GPUs include H100, V100, A100, T4, Jetson, and the RTX Quadro.

NGC software is tested and assured to scale to multiple GPUs and, in some cases, to scale to multi-node, ensuring users maximize the use of their GPU-powered servers out of the box.

For a select set of containers, NVIDIA offers NGC Support Services for running software on DGX platforms or certified OEM servers. The service gives enterprise IT direct access to NVIDIA subject matter experts to quickly address software issues and minimize system downtime.
Chapter 3. NGC Organizations and Teams

An NGC org (organization) is a dedicated virtual instance used to enable and manage NVIDIA cloud services.

A user can gain access to an NGC org in the following ways:

1) A user can sign up for a free NGC org through the NGC sign-in portal and create a new NVIDIA account.

2) An NVIDIA representative onboards a user through a purchase order, early trial program, or other commercially related offers. The customer provides the users’ contact information to an NVIDIA representative. An NVIDIA NGC org gets created on behalf of the user, and an org owner welcome email is sent to the user’s email address. The user is requested to access NGC via an invite URL embedded in the email.

3) The org owner can onboard a user to an NGC org. The org owner will invite the user through an NGC invitation email or add the user using a corporate AD group membership rule mapped to the NGC org. Note that only ‘enterprise’ type orgs support the ability for org owners to manage additional users.

Users who sign up for an NGC org through the NGC sign-in portal get assigned an individual org that is automatically enabled with the NGC Catalog service and grants authenticated access to the catalog. An individual org is only accessible by a single user, the org owner.

An NVIDIA premium cloud service subscription, such as NVAIE or NeMoLLM, will be granted through purchase, an early access program, or the NGC Activate Subscription portal. Subscriptions get enabled on enterprise NGC orgs created by NVIDIA. Alternatively, an individual org is converted to an enterprise org when a user activates their subscription through the NGC activate subscription portal. An NGC enterprise org supports additional users, teams, and role-based access rules.
3.1. Teams

A team is a virtual sub-unit within an org with its own registry space. Only members of the same team have access to that team’s registry space. Creating teams is useful for allowing users to share images within a team while keeping them invisible to other teams in the same organization. Only the org owner or a user assigned the user admin role can create teams. The user admin role, when assigned at the org level (with no teams specified), has access and can manage users in all teams within the organization. If the user admin is assigned to a specific team, it can only access that team and manage users exclusively within the team.

To create a team,

1. Log on to the NGC application.
2. Select Organization from the user account menu.
3. On the dashboard or in the left navigation, select Teams.

4. On the Teams page, click Create Team on the upper right of the screen.
5. Enter a team name and description, then click Create Team. Team names must be all lowercase.

3.2. NGC Org Owner and Other Org Users

When an org is created, the Org Owner is the role assigned to the initial user. As mentioned above, an individual org is only accessible by the org owner. Additional users are not supported. To verify the type of org you manage, sign in to NGC to access your org. Under the user account menu, select Organization. Select Organization Profile on the left navigation.

The org owner possesses the highest admin privileges in an org. The org owner of an enterprise org can add/edit/delete teams and users. The org owner can define access control rules against each added user by managing the assignment of teams and roles. When a new user gets added, the org owner will assign access to the entire org or limit the user's access to a team or a set of teams created within the org. Then, the org owner will control the user's access by assigning roles based on each user's required access to perform their functions within the org or team.
An org supports up to three org owners, and only an org owner can add or invite additional org owners to share in the NGC org management responsibilities. To prevent accidentally adding an outside user as an org owner, the email address domain between all org owners’ users must match.

For example, if the users’ email addresses are john@intelligence.ai, jane@intelligence.ai, and peter@intelligence.ai, then all three can be added as org owners because their email address domains match. In contrast, if Peter’s email address was peter@artificial.ai, then Peter cannot be added as an org owner.

Note: If the org has not linked to an external IdP, an org owner can invite a user with a different email domain as an org user and assign the required roles to that user.

Follow the steps below to add a new org owner.

1. **Sign in to NGC as an org owner** by clicking the Use alternate method option on the sign-in page. Make sure to select the correct org if you manage multiple NGC orgs. Select Organization from the user account menu. On the dashboard or in the left navigation, click Users.

2. Click Invite User at the top-right corner of the page.

   Important: If your org is linked to an external IdP/SSO service, make sure you **deactivate IdP rules** first to enable the option to invite users. When you finish adding org owners, reactivate your IdP rules.
3. Fill out the required fields to add the additional org owner and assign the "Owner" role under the Organization service. Be sure that you are using an email address that matches the email domain of the initial org owner. Click Add Role, then Invite User to complete adding the new org owner.

4. The added org owner will receive an NGC invite email message that includes the NGC URL to accept the invite and sign into the NGC org. The user must also follow the org owner sign-in steps by clicking the Use alternate method option on the sign-in page.

After all three org owners are added, any org owner can initiate the replacement of another org owner when needed. An org owner can remove another org owner by going to the ‘users’ list and selecting Remove User.
When an org owner is deleted, an email message is sent to the remaining active owners, notifying them of the deletion event. A replacement owner can be invited using the same steps above.

3.2.1. Secure Org Owner with Multi-Factor Authentication

When you create your org owner, you receive an NVIDIA identity account that is protected by a password you set at the time of org owner account creation. You can further secure access to your org owner account by setting up multi-factor authentication using the directions below:

1. Go to NVIDIA and click the sign-in icon.

2. Sign in with the credentials you set up during the org owner account setup.
3. From your NVIDIA user profile page, navigate to the bottom of the page, click on Security settings, and click Update.

4. You will be prompted to enter your password again to access security settings.
6. You can now configure your identity account for two-factor authentication. Go to the NVIDIA N-factor help page for details on how to set it up.

3.2.2. Contacting your Org Owner

As a user within an NGC organization, you may need to contact the organization owner to request a new service subscription or add a new user. NGC simplifies this communication with the Contact Admin option in your user account menu.

1. First, sign into the NGC application with your organization. Then click on your user ID in the top right corner to access the user account menu.
2. Select Contact Admin to open the email editor dialog.

Within this editor, you can choose from the following email templates:
NGC Organizations and Teams

- Product Request: Use this template when requesting a specific product for your <org-name> organization. For example, "I'd like to request the [product name] product for the <org-name> organization."

- Team Access Request: Select this template if you need to request access to the org or a particular team, such as "[team-name]," within your <org-name> organization.

Both templates come with pre-populated message content, but you can edit or delete portions of the message to create a customized message to send to your organization owner.

3. Once you are ready to send the message, click Send.

The organization owner will receive the email from noreply-ngc@nvidia.com and will include your email address. The following is a sample email message:

Contact Admin

Send an email to this Organization's Owner. Replies will be sent to your registered email address. All emails will be logged.

Organization
demo

Select Message Template
Team Access Request

Message
I'd like to request access to [team-name] in demo org.

Cancel  Send

3. Once you are ready to send the message, click Send.

The organization owner will receive the email from noreply-ngc@nvidia.com and will include your email address. The following is a sample email message:
By following these steps and using the Contact Admin option, you can easily initiate communication with your organization owner.

3.2.3. Example of Adding a User to an Org

The following is an example of adding a user to an enterprise org that is enabled with Fleet Command cloud service.

To add a new user to an org or team, select Organization from the user account menu. On the dashboard or in the left navigation, click Users. On the Users page, click Invite User to open the user page.
Fill in the information for the user.

In this example, the org owner adds a new user to team "team1", assigns admin roles across all available cloud services within the org, and grants the privilege to add and edit new teams and users by assigning the "user admin" role. To limit the user's access, the org owner can assign lesser-privileged roles under each cloud service.

To learn more about NGC cloud services user roles, refer to the links below.

- [Base Command roles](#)
- [Fleet Command roles](#)
- [Private Registry roles](#)
- [NVAIE viewer role](#)

Note that assigning the user at the team level allows the new user to perform commands within the assigned team. If the new user needs access to the entire org, the user must be assigned at the "Organization" level.

After the org owner assigns the roles to the user being created, the owner must click Add Role to confirm the role assignment. After the roles are assigned, the Invite User button becomes enabled for the org owner to select to complete the creation of the user.

### 3.3. New User Accepting an NGC Org Invitation

A newly added user will receive an NGC invite email requesting the user to join the NGC org.
After clicking the acceptance link in the email message, the user is automatically redirected to their appropriate sign-in method. Suppose this is the user's first time signing into NVIDIA NGC. In that case, they will be automatically prompted to create a new NVIDIA account using their email address or can select More Signup Options in the NVIDIA account creation portal to sign in using an existing social platform user account (e.g., Google, Facebook, Apple, or Discord).

Users who have an existing NVIDIA account are automatically prompted for their password to sign in and access their NGC org. Users whose company has federated their NGC org to an external SSO identity provider are automatically redirected to their SSO portal to provide authentication credentials to sign in. To learn more about bringing your own SSO/IdP provider, see NGC Org Authentication Using an External SSO Provider.

Important: For a successful user onboarding experience, customers should add the following NVIDIA email addresses to their allow-list in their firewall rules: 'noreply-ngc@nvidia.com', 'account@tmail.nvidia.com', and 'account@nvidia.com'.
3.4. NGC Org Authentication Using an External SSO Provider

An enterprise org can be federated to an external SSO/IdP identity service to centrally manage a company's rules for user authentication to cloud services.

The setup process to federate an NGC org to an external SSO identity provider requires manual steps between the customer and an NVIDIA representative. To learn more on how to bring your own SSO/IdP service to NGC, contact your NVIDIA sales representative or submit a support case with NVIDIA Enterprise Support. If you don't have an NVIDIA sales rep or an active support contract, email ngc-sso@nvidia.com with your request.

The setup process to federate an NGC org to an external SSO identity provider requires manual steps between the customer and an NVIDIA representative. To learn more on how to bring your own SSO/IdP service to NGC, email ngc-sso@nvidia.com with your request.

After an NGC org is federated against an enterprise SSO/IdP identity service, the users signing into NGC will automatically be prompted to authenticate against their enterprise SSO/IdP service and redirected back to NGC after a successful sign-in. To add new users to an org federated to an external SSO/IdP provider, the org owner follows the same steps described in Example of Adding a User to an Org. Alternatively, suppose the external IdP provider supports OIDC claims to identify the user's membership to a group or set of groups. In that case, NGC can be configured to map these OIDC claims to NGC org, teams, and role assignments. See the section NGC IdP Membership Rules for more details.

Note the org owner role is created as the break-glass/recovery account and must always authenticate through an NVIDIA account. This provides access to the org in case the external SSO/IdP service is unavailable. See the section Signing In to your NGC Org Owner Account (External SSO IdP) to learn how to sign in to your org owner account.

NVIDIA recommends org owners add themselves to their enterprise org as new users and assign access rules set at the org level with admin roles across all org services. Using the same org owner email address to add themselves as new admin users is supported. The users' new service admin accounts will be authenticated using the external SSO/IdP authentication service and inherit the same role privileges as their org owner account.

Important:

For NVIDIA to automatically detect the deletion or deactivation of a user managed by the external IdP, the customer must also integrate their IdP user management service to our NVIDIA identity federation system using "SCIM" or "Security Event Tokens" and allow the user update events to flow to NVIDIA. NVIDIA will use these events to ensure deleted user accounts from the enterprise side are reflected across all NVIDIA services. Any credential assets (e.g., API keys) owned by the removed user are immediately revoked upon receiving the deletion or deactivation event.

During the federation process, NVIDIA will share our IdP federation "Synchronization of users and group changes" document, and we will need to record a written
Some NVIDIA products (like NGC) provide a UI option for customers to manually disable/deactivate/dis-enroll users manually within the NVIDIA application and trigger the revocation of credential assets by deleting the user. For example, NGC supports removing a user from an NGC org, and this event automatically triggers the revocation of user-owned NGC API keys. However, such application-specific admin functions do not remove users from other NVIDIA applications. The risk with this process is that if the user were part of other NVIDIA services that grant credential assets, these assets would remain as active dangling assets against those services because the user account remains "active" in our central identity service. The user's API keys are thus not revoked.

The only way to guarantee NVIDIA-wide user account removal is to integrate user event sharing with the NVIDIA IdP federation service, and the customer must be guided to execute the NVIDIA recommended de-provisioning operations in the NVIDIA IdP federation service.

### 3.4.1. NGC IdP Membership Rules

An enterprise org can be federated to an external SSO/IdP identity service to centrally manage a company’s rules for user authentication to cloud services.

When the NGC org is linked to an external IdP, the org owner will see the ability to start creating membership rules under the Organization > External IdP configuration page.

Important: Only the org owner role is permitted to create membership IdP Rules.

If the NGC org is not linked to an enterprise-owned SSO IdP provider, the ‘External IdP’ web prompt is disabled with a message stating the org is not linked to an IdP. You can request to link your org to an enterprise-owned SSO IdP by emailing ngc-sso@nvidia.com.
The membership rules feature uses Open ID Connect (OIDC) claims containing the user's membership attributes, either included in the ID token or retrieved from the OIDC user-info endpoint. Here is an example of an OIDC claim that carries membership attributes.
The ID-token contains several claims that carry attributes associated with the user. Specifically, we are interested in the "groups" claims values that map users to specific membership groups in their Active Directory (AD) service.

It's important to note that the external IdP uses the name "groups" to carry membership attribute values in the example above. However, other IdP providers may use a different name for their membership attribute claim. If your IdP provider uses a different claim name, check that NGC supports it by emailing ngc-sso@nvidia.com.

An org owner will create membership rules by mapping the name (alias) value of the IdP 'groups' claim to NGC org roles and permissions. Within the enterprise AD service, users assigned to these groups will receive the roles and permissions assigned to the group name in the NGC IdP rules.

Example

In this example, we are using Okta as the enterprise-owned SSO IdP provider. It is assumed the same person managing Okta also has NGC org owner permissions.

Okta Settings
First, the NGC org gets linked as a client application to the Okta IdP service.

On Okta, managed users get assigned to the NGC client application, enabling them to sign in to NGC using their Okta SSO account.

At this point, users have not been assigned to a 'group'.
On Okta, secure AD groups are created, and users can be assigned to a group or a set of groups.
In this example, Adam and Amy are assigned to the NGC_AIE_PR_Admin group. Note that this is being done manually using the Okta user management feature, but this is typically managed automatically by using an enterprise active directory integrated into the IdP provider.
At this point, Adam and Amy can sign into NGC, but there isn’t an IdP rule that assigns them NGC org roles and permissions. The next section covers creating the NGC IdP membership rules that will grant Adam and Amy their roles.

Configuring NGC

After the IdP groups are created and users are assigned to secure AD groups on the Okta IdP side, the administrator (org owner) is ready to configure NGC IdP membership rules.

NGC

In the NGC web application, go to NGC External IdP settings and click Create Rule. Type in a Rule Name that describes the purpose of the rule.

Then, under the If group equals field, enter the name of the IdP ‘group’ claim that will map to this rule. Note that the name must match exactly and is case-sensitive.

Finally, assign the NGC team or org-level access, and assign cloud service roles to grant to users that are assigned to the group. Click Save.
**Rule Name**

NVAIE and Private Registry admin

**If group equals**

NGC_AIE_PR_Admin

⚠️ This field is case sensitive. Please ensure the group name entered matches the one in your IdP.

**then assign to**

TB2-org (no team)

**as**

- **Base Command Platform**
  - Admin
  - User
  - Viewer

- **Fleet Command**
  - Admin
  - Operator
  - Viewer

- **NVIDIA AI Enterprise**
  - Viewer

- **Omniverse Cloud**
  - Admin
  - User
  - Read

- **Private Registry**
  - Admin

- **Organization**
  - User Admin

[Buttons: Cancel, Save]
Once the rule is saved, the org owner must activate the rules to apply the membership roles to Adam and Amy when they sign in.

This completes the creation of an NGC IdP membership rule.
The org owner can create multiple rules to support multiple group claim values from the IdP. An example of multiple IdP membership rules created can be seen below.

Important: The NGC IdP membership rules do not go into effect until they are "activated". Users' accounts that were added using the manual method will continue to use NGC role permissions assigned through 'Users' invite user membership configurations.

When the Activate Rules button is clicked, the org owner is prompted to confirm activation of the IdP rules. When the rules are activated, the NGC IdP rule system reviews user memberships previously added to the org using the "user invitation" method. The NGC IdP rule system will check if the user account maps to a new IdP membership rule. If one does, the previous account membership is deleted, and a new user account membership using the same email address and IdP association will be created. The permissions and roles that get assigned to the new account membership are based on the IdP 'groups' claim attribute.

Note: Previous user accounts that are determined not to have an associated IdP rule remain as active user accounts under "Users" account memberships. An org owner or user admin can remove these users if the org should only be accessible by members mapped to IdP rules.

### 3.4.2. IdP Rules and Org Owner Accounts
Org owner accounts are always based on NVIDIA account identity, however, the email address used to create an org owner account must match the email domain of the federated IdP service.

To add or remove org owner accounts, the IdP rules must be deactivated and re-activated after completing org owner account management.

To deactivate IdP rules, see the image below:
Chapter 4. Accessing NGC Org

The following are ways to access an NGC org.

**Org owner**
A user must create a new NVIDIA account and register a new NGC individual org against it. Alternatively, the user receives an NGC welcome email and is invited to accept and sign in as the org owner of a new enterprise org.

**Org user**
The org owner, or an org user admin, adds a new user to the org (or team) and sends an NGC welcome email inviting the user to sign in.

**Subscription**
To access subscription-based software, users must provide Business Address details and a token (serial number, activation code, and so on.). Note that this category also requires Authenticated Access.
Chapter 5. Accessing NGC as Org Owner

Instructions for accessing NGC org as org owner.

5.1. Signing Up for an NVIDIA Account and Activating a New NGC Org

This section describes the steps to sign up for an individual NGC org.

1. Go to the NGC sign-in page from your browser, enter your email address, and then click Continue.
2. At the Create your Account screen, create a password, make sure to review the NVIDIA Account Terms of Use and Privacy Policy, and click Create Account to accept and proceed with account creation. You will receive an email to verify your email address.
A verification email is sent to your email address.

3. Open the NVIDIA account creation email and click Verify Email Address.
You are automatically directed to nvidia.com and see an Email verified successfully page.

4. At the Almost done! dialog, set your communications preferences, and then click Submit.

5. Complete your user profile at the Set Your Profile screen, agree to the NVIDIA GPU Cloud Terms of Use, and then click Submit.
Your NVIDIA account is created, and you will be automatically logged in to your NGC org.

5.2. Accessing an Org as Owner (from Welcome Email)

This section describes accessing a new NGC org where the user is invited to join as the org owner.

After NVIDIA creates an NGC org, the designated user will receive a welcome email that invites them to continue the activation and sign-in process.
In the email, the user selects the SIGN IN TO NGC button and is redirected to the NGC sign-in page.

5.2.1. Existing NVIDIA User

This section describes signing in if you already have an NVIDIA account.

If you are a user with an existing NVIDIA account, click on Use alternate method to be redirected and sign in with your NVIDIA account credentials. If you don’t own an NVIDIA account, go straight to section New NGC User.
At the Your NVIDIA Account sign-in page, enter your email address and click Continue. Alternatively, if the NVIDIA account was created using a social platform IdP the user can select the social platform provider to sign in.
After clicking Continue, the user is prompted to enter their password and select Log In.
Your NVIDIA Account

Sign in to the client

ncvisc1@gmail.com

Password

Enter your password

Stay logged in

Log In

More Login Options

By proceeding, I agree to the NVIDIA Account Terms Of Use and Privacy Policy

Login Help

After successfully signing in, the user may need to accept new cloud service subscription terms of use, and if the org owner is part of multiple orgs will need to select the new org from the list.
Terms of Use

Please review and accept the following Terms of Use

☐ I agree to the NVIDIA Privacy Policy
☐ I agree to the NVIDIA GPU Cloud Terms of Use

Agree
Accessing NGC as Org Owner

Organizations within NVIDIA GPU Cloud allow you to share registries and resources with colleagues.

Set Your Organization

Search

TB4-org

TB3-org

Continue
5.2.2. New NGC User

This section describes signing in if you are new to NGC.

New users are automatically prompted to create a new NVIDIA account.

Take note of the following important information in the email.

- "TB3-org" is the display name for your org. The display name identifies your org in the NGC web UI.
- "njdfzzqagzno" is the unique identifier for your org. This identifier represents your org namespace. You can use this identifier in some CLI commands.

1. Click the SIGN IN TO NGC button in the email, or using a browser, navigate to the NGC sign-in page.

2. Type in your email address and click Continue
3. You will be presented with a create account screen.

Create Your Account

Email
novisc1@gmail.com

Password
**********

Confirm password
**********

Stay logged in

By proceeding, I agree to the NVIDIA Account Terms Of Use and Privacy Policy

Create Account

More Signup Options

Verify your email and create a password. Review NVIDIA Account Terms of Use and Privacy Policy, and click “Create Account”

A verification email is sent.
4. Open the email and click Verify Email Address.
5. In the Almost done! dialog, select your communication preferences, and then click Submit.
6. At the Your NVIDIA Account sign-in page, enter your email address and click Continue. Alternatively, If the NVIDIA account was created using a social platform IdP the user can select the social platform provider to sign in.

7. After clicking Continue the user is prompted to enter their password and select Log In.
You can always change to a different org or team that you are a member of after logging in. Refer to [Switching Orgs or Team After Logging into NGC](#) for more information.

The NGC web UI opens to the NGC Catalog landing page.

### 5.2.2.1. Signing In to your NGC Org Owner Account (External SSO IdP)
NVIDIA accounts always handle an NGC org owner authentication. If your org is federated to an external SSO/IdP service as explained in NGC Org Authentication Using an External SSO Provider, the company email address used to create the org owner account will be redirected to the company’s external SSO provider when the email address is entered at the NGC sign-in page. This prevents access to the org owner account. To gain access to your org owner account, you must go through NGC’s alternate sign-in method.

1. At the NGC sign-in page, select Use alternate method to access the NVIDIA account login page.

2. At the Your NVIDIA Account sign-in page, enter your email address and click Continue. You will be prompted to enter your password. Click Log in when done.
6.1. Joining an NGC Org or Team with an Existing NVIDIA Account

This section describes joining an org or team when your email address is already associated with an NVIDIA account.

After NVIDIA or your organization administrator adds you to a new org or team within an organization, you will receive a welcome email that invites you to continue the activation and sign-in process.
Dear Olivia Sciences,

Welcome to NVIDIA NGC!

You have been added and are invited to access NGC org TB-org (xvy2tenwrbmg).

Accept your invitation by clicking the link below. At the NGC sign-in page enter your email address and click Continue to sign-in. If you do not have an account you will be automatically prompted to create a new NVIDIA account to sign in.

Thanks for joining! We’re excited to have you with us.

ACCEPT INVITATION AND SIGN IN

1. Click the Accept Invitation and Sign In link to open the NGC sign-in page.
   Enter your email address and sign in using your NVIDIA account credentials.
The Set Your Organization screen appears.
2. Select the new organization and team you have been invited to. Click Continue. You can always change to a different org or team that you are a member of after logging in. Refer to Switching Orgs or Team After Logging into NGC for more information.

The NGC web UI opens to the NGC Catalog landing page.
6.2. Joining an Org or Team with a New NVIDIA Account

This section describes activating a new account where the domain of your email address is not mapped to an organization's single sign-on.

After your organization administrator invites you to an org or team, you will receive a welcome email that invites you to continue the activation and login process.

1. Click the Accept Invitation and Sign In link to open the NGC sign-in dialog in your browser, or go to NGC sign-in.
2. Type in your email address and click Continue. You will be automatically prompted to create a new NVIDIA account.
3. Fill in your information, create a password, agree to the Terms and Conditions, and click Create Account.
   An email is sent to you to verify your email address.
4. Open the email and click Verify Email Address.
5. In the Almost done! dialog, select your communication preferences and then click Submit.

6. In the NVIDIA Account Terms of Use dialog, select the desired options and click Agree.
7. Select the organization and team you want to log in under and then click Continue.
You can always change to a different org or team that you are a member of after logging in. Refer to [Switching Orgs or Team After Logging into NGC](#) for more information.

The NGC web UI opens to the NGC Catalog landing page.
Chapter 7. Activating Your Subscription (Offer Dependent)

This section describes activating a subscription and linking it to your NGC Account.

Note: These steps are only required for customers who have been given an activation code as part of the purchase of a GPU or DPU.

1. Access the activation page directly via Activate Subscription.
2. Sign in to NGC with your email address and password if prompted. If you have not created an NGC account, create one now.
3. On the Activate Subscription page, enter your Business Information using your company’s headquarters address and the serial number or activation code described by the specific offer.
   If entering multiple serial numbers or activation codes, use a comma to separate each.
4. Click Activate Subscription.
5. Once the system validates the serial numbers, review the information displayed and click Request Activation.
6. The Subscriptions page will display for your organization with the active NVIDIA AI Enterprise subscription.
7. Use the left navigation and click Enterprise Catalog to access the NVIDIA AI Enterprise software suite.
Chapter 8. Switching Orgs or Team After Logging into NGC

This section describes switching to a different org or team after logging in.

In the top menu bar, click your user account icon. Then, select your org menu to expand the view to other available orgs. If you manage many orgs, you can use the search field to find the specific org you want to select. Select the desired org by clicking it once.

Depending on the org or team you select, your current page may also refresh.
Chapter 9. NGC API Keys

NVIDIA NGC API keys are required to authenticate to NGC services using NCG CLI, Docker CLI, or API communication. NVIDIA NGC supports three types of API keys.

API Key (Original)
This is the original type of API key available in NGC since its inception. With this type, you can create only one "API key" at a time. Generating a new key automatically revokes the previous one, as they cannot be rotated. The active key immediately becomes invalid when you create a new key.

NVIDIA NGC introduces two new types of API keys supporting Role-Based Access Control (RBAC) configuration and the ability to manage the state of each key.

Personal API Key
Any user who is a member of an NGC org can generate Personal API Keys. These keys are tied to the user’s lifecycle within the NGC org and can access up to the permissions and services assigned to the user. During the key generation steps, the user can configure which NGC services are accessible by the API key and the time-to-live from one hour to 'never expires'.

Service API Key
Service API keys are not associated with individual user accounts; instead, they are linked to an NVIDIA cloud account and manage their lifecycle within the NGC org they are created under. Only "Org Owners" can create Service API keys.

As NVIDIA rolls out support for "Personal" and "Service" API keys, the original NGC API keys will continue to be supported. We highly recommend generating new API keys using the latest "Personal" or "Service" type API keys. These key types deliver the ability to configure an expiration date, revoke or delete the key using an action button, and rotate the key as needed.

The list of NVIDIA NGC applications/services that support Personal and Service Keys is listed below:

<table>
<thead>
<tr>
<th>NGC Application/ Services</th>
<th>Service API Keys</th>
<th>Personal API Keys</th>
<th>NGC API Keys (Original)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA NGC Catalog</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>NVIDIA NGC Private Registry (Helm charts are not yet supported)</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>NVIDIA NGC Picasso</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>
### NGC Application/Services

<table>
<thead>
<tr>
<th>NGC Application/Services</th>
<th>Service API Keys</th>
<th>Personal API Keys</th>
<th>NGC API Keys (Original)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVIDIA NGC cuOpt</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>NVIDIA Cloud Functions</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>NVIDIA Fleet Command</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>NVIDIA Base Command</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

If your NGC service isn’t listed under Personal or Service Keys, continue using the original NGC API key. We’ll update this list by adding support for other NGC services into our next-generation key types.

### 9.1. Generating a Personal API Key

1. Sign in to the NGC website.
   - From a browser, go to [https://ngc.nvidia.com/signin](https://ngc.nvidia.com/signin) and then enter your email and password.
2. Click your user account icon in the top right corner and select Setup.
3. Click Generate Personal Key from the available options.

   Personal Keys allow access to a set of NGC service APIs.
4. On the Setup > Personal Keys page, click + Generate Personal Key, either on the menu or on the pane.

5. In the Generate Personal Key dialog, fill in the required information for your key.
Key Name: Enter a unique name for your key.
Expiration: Choose the expiration date for the key.
6. Click Generate Personal Key when finished.

Your API key appears in the following dialog.

7. NGC does not save your key, so store it securely. Copy your API Key to the clipboard by selecting Copy Personal Key or using the copy icon to the right of the API key.
You can generate up to eight personal keys and manage them from the Setup > Personal Keys dashboard. To activate or deactivate a key, click the Active toggle. The Actions (ellipsis) menu allows you to rotate or delete a personal key.
9.2. Generating a Service API Key

1. Sign in to the NGC website.
   From a browser, go to https://ngc.nvidia.com/signin and then enter your email and password.

2. Click Organization > Service Keys from the left navigation menu.

3. On the Organization > Service Keys page, click + Generate Service Key button to create a key.
4. In the Create Service Key dialog, fill in the required configuration. Currently, Service keys are only supported for NVIDIA Cloud Functions as the service, allowing you to configure scopes and resource permissions.

In the Scope field, select from the available roles to grant to the API key.
In the Resource Type field, choose from the available options.

5. Click Next Step to review your key configuration.
6. Once you verified the configuration, click Confirm to generate your service key. Your service key appears in the next dialog.

7. NGC does not save your key, so store it securely. You can copy your API Key to the clipboard by clicking the copy icon to the right of the API key or the Copy Service Key button.

Make sure to copy the key value before leaving this page. Once you navigate away, the key value cannot be retrieved. Losing this value will require generating a new key.

NGC supports multiple Service API keys which are managed from the Organization > Service Keys dashboard.

To activate or deactivate a key, click the Active toggle. The Actions (ellipsis) menu allows you to rotate or delete a service key.
9.3. Generating NGC API Keys

This section describes obtaining an API key to access locked container images from the NGC Registry.

1. Sign in to the NGC website.
   From a browser, go to https://ngc.nvidia.com/signin and then enter your email and password.
2. Click your user account icon in the top right corner and select Setup.

3. Click Generate API Key to open the API Key page.
   The API Key is the mechanism to authenticate your access to the NGC container registry.
4. On the API Key page, click + Generate API Key to generate your API key.
   A warning message shows that your old API key will become invalid if you create a new one.
5. Click Confirm to generate the key.
   Your API key appears.
   You only need to generate an API Key once. NGC does not save your key, so store it securely.

Tip: You can copy your API Key to the clipboard by clicking the copy icon to the right of the API key.

You can generate a new one from the NGC website if you lose your API Key. When you generate a new API Key, the old one is invalidated.
Chapter 10. Notification Services

The NGC Notification Services feature enables NGC users to subscribe to email notification to receive service change events. By subscribing to notifications, users can stay updated with the latest changes and developments in the NGC cloud platform and its services.

NGC customers can be informed of the following types of changes:

- Customer-impacting service enhancements (release notes)
- Security vulnerabilities (CVEs) and scanning reports
- Software end-of-life announcements
- Scheduled web portal maintenance to an NGC property

NGC customers can subscribe to notifications in the following ways:

- During their first sign-in, the NGC portal will pop up a modal allowing users to set their notifications preferences.
### Set Email Preferences For Your Services

**Services Email Preferences** are available from *Account Settings* under your user ID account menu.

- Send me information regarding security, announcements and maintenance for all of my services
- **Private Registry**
  - Security
  - Security vulnerabilities
  - Maintenance
  - Planned maintenance events
  - Announcement
  - New s/w version release notes, API end of service, NGC CLI updates and end of service
- **Organization**
  - Security
  - Security vulnerabilities
  - Maintenance
  - Planned maintenance events
  - Announcement
  - New s/w version release notes, API end of service, NGC CLI updates and end of service
- **NVIDIA AI Enterprise Essentials**
  - Security
  - Security vulnerabilities
  - Maintenance
  - Planned maintenance events
  - Announcement
  - New s/w version release notes, API end of service, NGC CLI updates and end of service

Set Email Preferences

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The following sample toast notification confirms the user’s email preference settings:

- **Email preferences has been updated for 3 services:**
  - Private Registry
  - Organization
  - NVIDIA AI Enterprise Essentials

View *Account Settings*

- After their initial sign-in, users can edit their notification preferences under their NGC user account settings page.
Notification preferences are organized based on the subscriptions enabled within the organization. Access to these preferences will be gated by the service roles assigned to each user.