

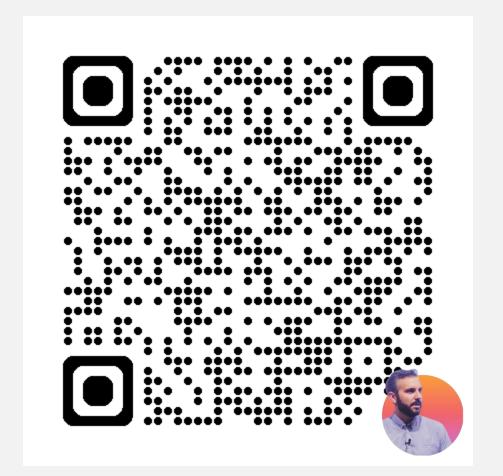
November 13-15, Oslo Spektrum

# Martin Ehrnst

GitHub a toolkit for platform engineers









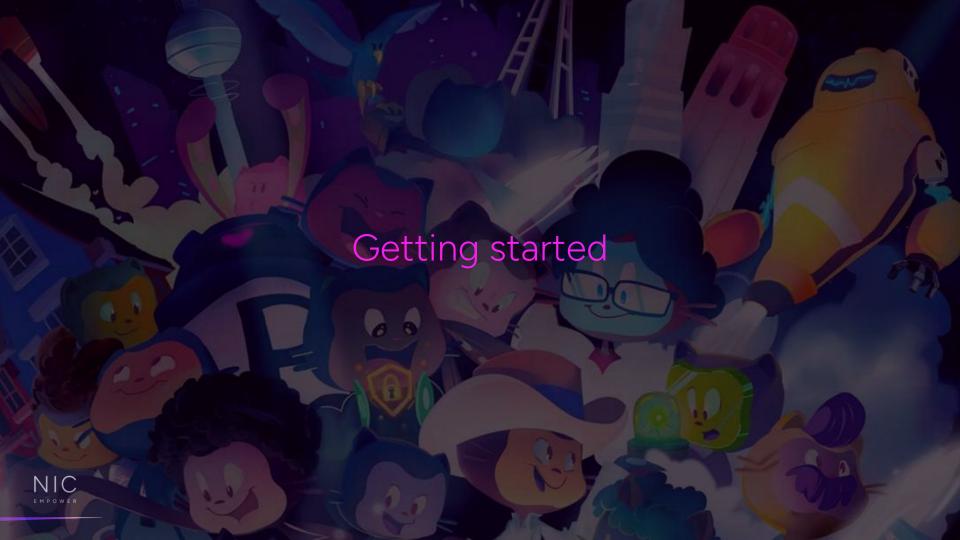
# The menu

- Day 0 getting started
- Security settings
- Shared Workflows
- Runners
- Self-service



















Main organization



All users All us have access





Protected organization



Only selected users









Main organization



have access





Protected organization



Only selected users



Require multiple SCIM setups or manual memberships







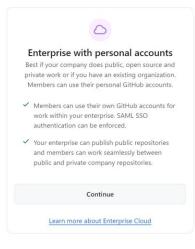


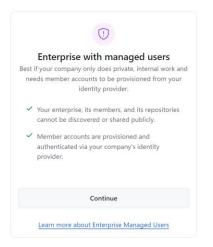


## Try Enterprise free for 30 days

#### How do you want to manage users on your enterprise?

Your enterprise type determines whether members can contribute to public repositories in addition to private company ones, and how members are given access to your enterprise.





Need more information? Contact your partner or seller. If you don't have a partner or seller and would like to get in contact with one, contact sales.



















#### Enterprise with personal accounts

Best if your company does public, open source and private work or if you have an existing organization. Members can use their personal GitHub accounts.

- ✓ Members can use their own GitHub accounts for work within your enterprise. SAML SSO authentication can be enforced.
- ✓ Your enterprise can publish public repositories and members can work seaml public and private company repositories.

Continue

Learn more about Enterprise Cloud



#### Enterprise with managed users

Best if your company only does private, internal work and needs member accounts to be provisioned from your identity provider.

- ✓ Your enterprise, its members, and its repositories cannot be discovered or shared publicly.
- ✓ Member accounts are provisioned and authenticated via your company's identity

Learn more about Enterprise Managed Users

Need more information? Contact your partner or set







## GitHub Docs ← Home

### Enterprise administrators

Overview
Manage enterprise account
Configuration
Identity and access management
Understand enterprise IAM
About IAM
About IAM
About Tamaged users
Restrictions for managed users
Concision an prosperie have

Choosing an enterprise type

Get started with managed users

Troubleshoot IAM

IAM configuration reference

SAML for enterprise IAM

Authentication for managed users

Provision managed user accounts

Reconfigure IAM for managed users

Manage recovery codes

Manage accounts and repositories

Policies

Monitor user activity
GitHub Actions
Code security

Copilot Business only Guides Enterprise administrators / Identity and access management / Understand enterprise IAM /

## **About Enterprise Managed Users**

Learn how your enterprise can manage the lifecycle and authentication of users on GitHub from your identity provider (IdP).

With Enterprise Managed Users, you manage the lifecycle and authentication of your users on GitHub from an external identity management system, or IdP:

- Your IdP provisions new user accounts on GitHub, with access to your enterprise.
- . Users must authenticate on your IdP to access your enterprise's resources on GitHub.
- You control usernames, profile data, organization membership, and repository access from your IdP.
- If your enterprise uses OIDC SSO, GitHub will validate access to your enterprise and its resources using your IdP's Conditional Access Policy (CAP). See "About support for your IdP's Conditional Access Policy."
- Managed user accounts cannot create public content or collaborate outside your enterprise. See "Abilities and restrictions of managed user accounts."

#### ① Note

Enterprise Managed Users is not the best solution for every customer. To determine whether it's right for your enterprise, see "Choosing an enterprise type for GitHub Enterprise Cloud."

#### Identity management systems $\mathscr O$

GitHub partners with some developers of identity management systems to provide a "paved-path" integration with Enterprise Managed Users. To simplify your configuration and ensure full support, use a single partner IdP for both authentication and provisioning.

#### Partner identity providers $\mathscr O$

Partner IdPs provide authentication using SAML or OIDC, and provide provisioning with System for Cross-domain Identity Management (SCIM).

	Partner IdP	SAML	OIDC	SCIM
	Entra ID	~	~	~
	Okta	~	×	~
	PingFederate	~	×	~

When you use a single partner IdP for both authentication and provisioning, GitHub provides support for the application on the partner IdP and the IdP's integration with GitHub.

#### Other identity management systems &

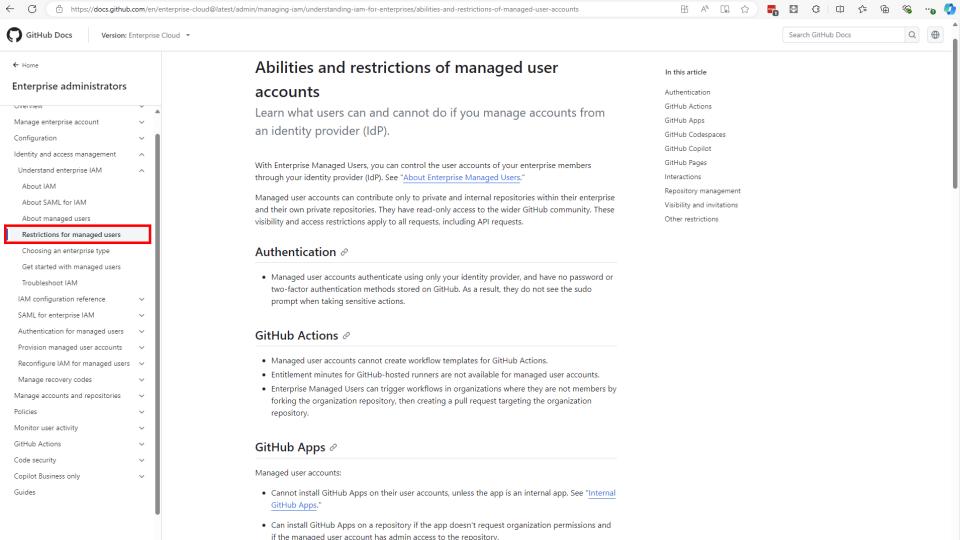
If you cannot use a single partner IdP for both authentication and provisioning, you can use another identity management system or combination of systems. The system must:

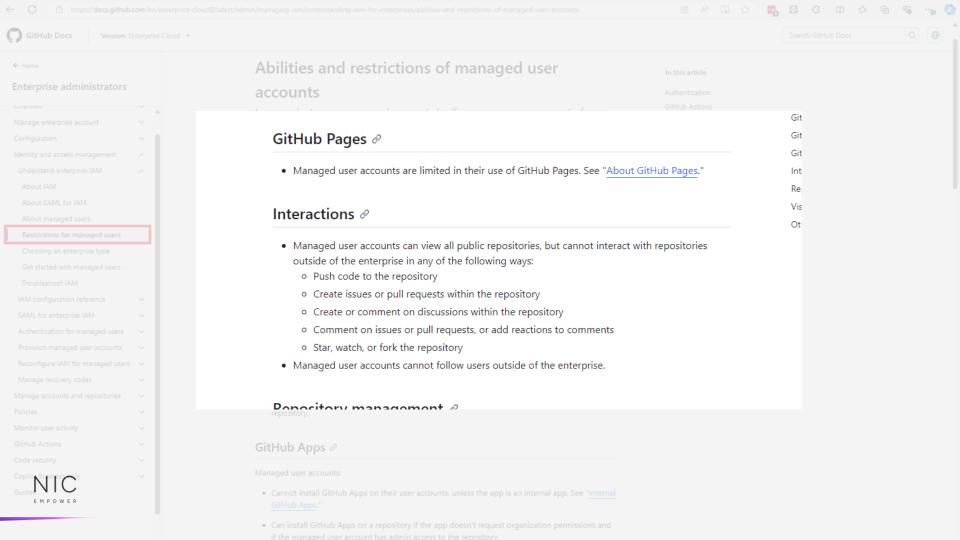
- Adhere to GitHub's integration guidelines
- Provide authentication using SAML, adhering to SAML 2.0 specification
- Provide user lifecycle management using SCIM, adhering to the SCIM 2.0 specification and communicating with GitHub's REST API (see "Provisioning users and groups with SCIM using the REST API")

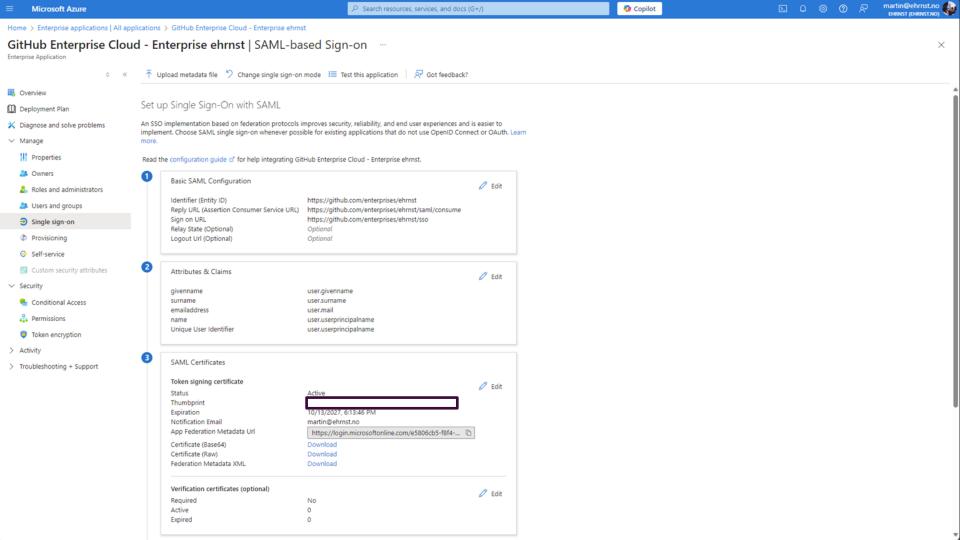
GitHub does not expressly support mixing and matching partner IdPs for authentication and provisioning and does not test all identity management systems. GitHub's support team may not be able to assist you with issues related to mixed or untested systems. If you need help, you must

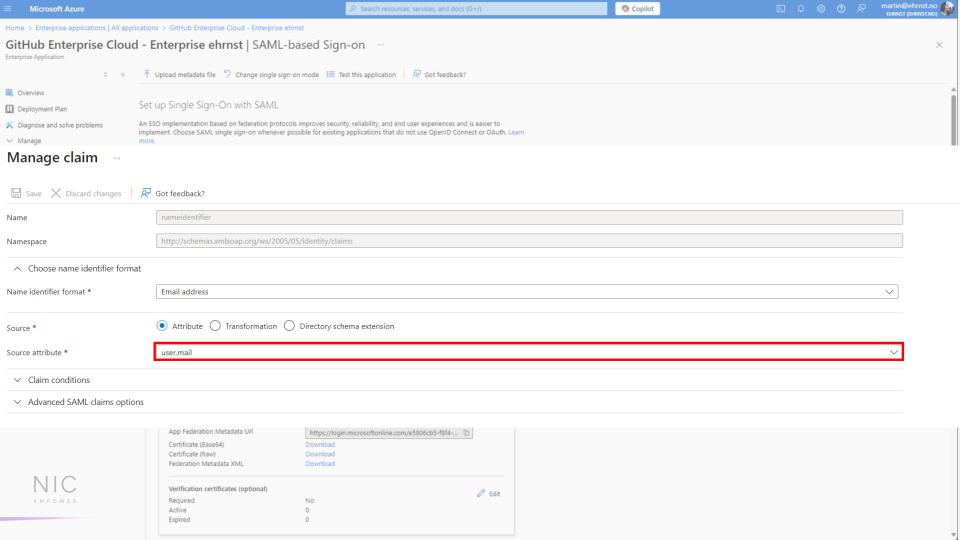
#### In this article

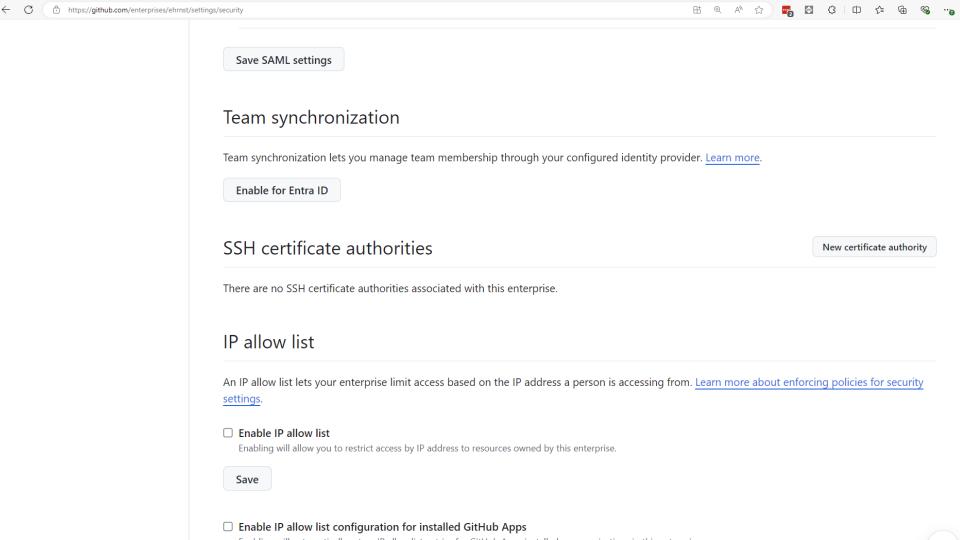
Identity management systems
Usernames and profile information
Managing roles and access
Authentication for managed user accounts
Further reading

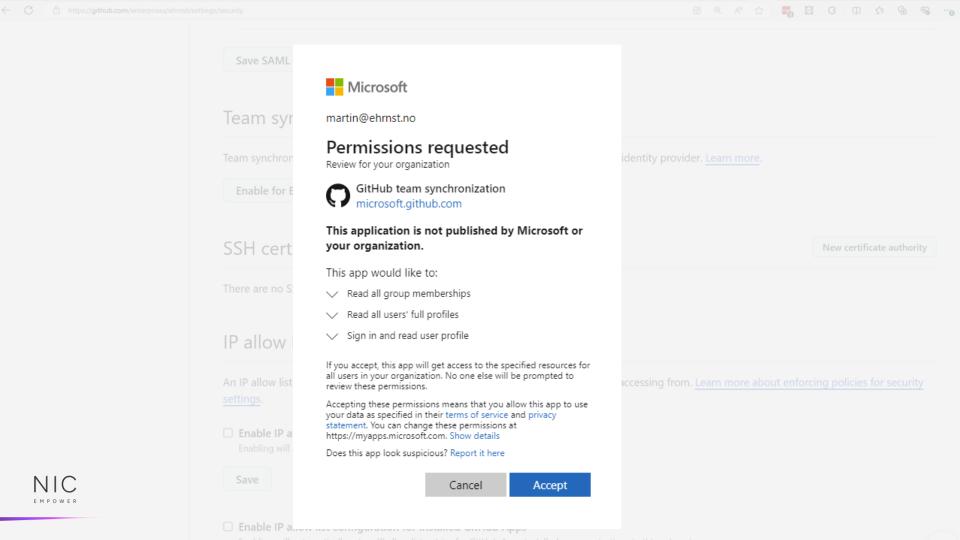


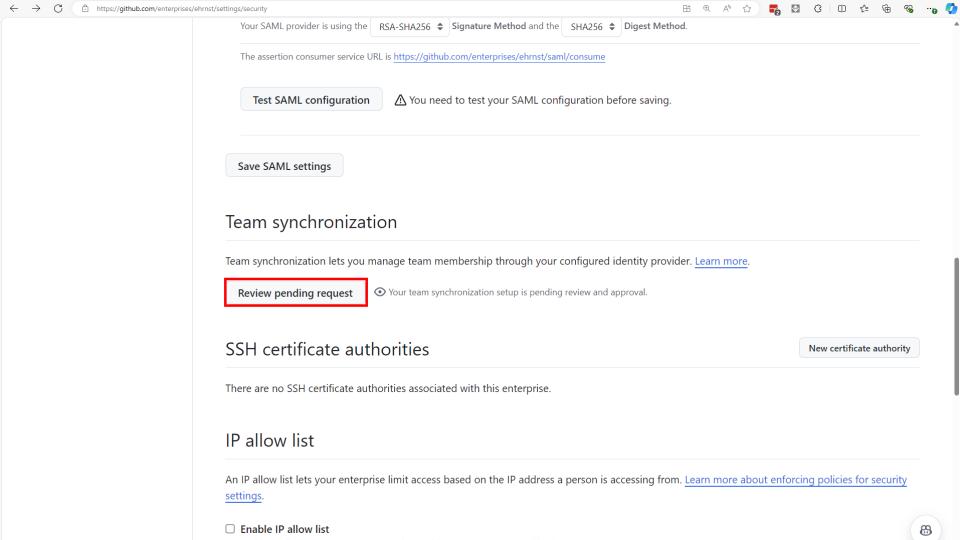


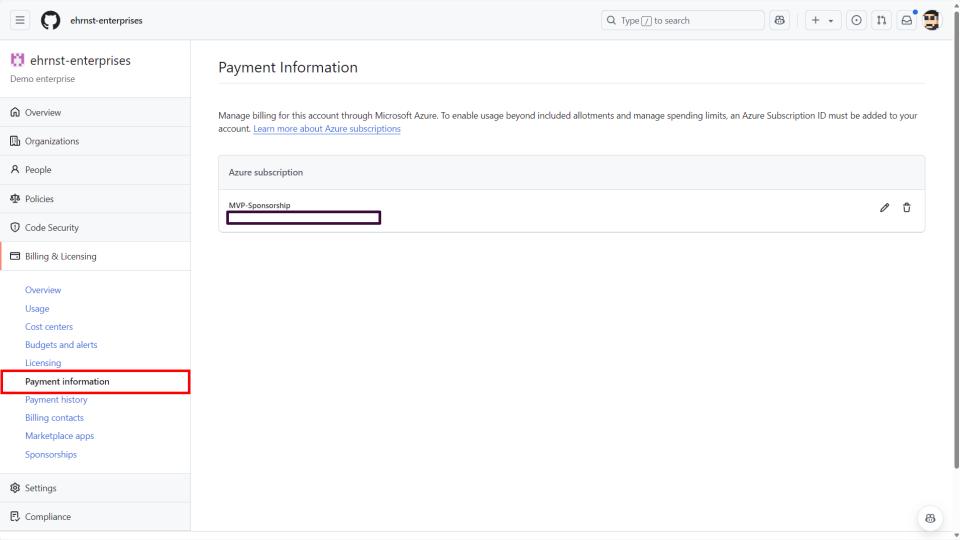






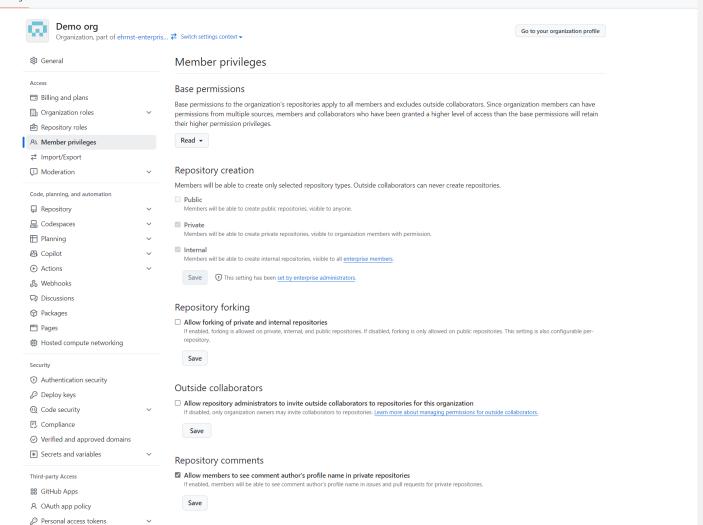


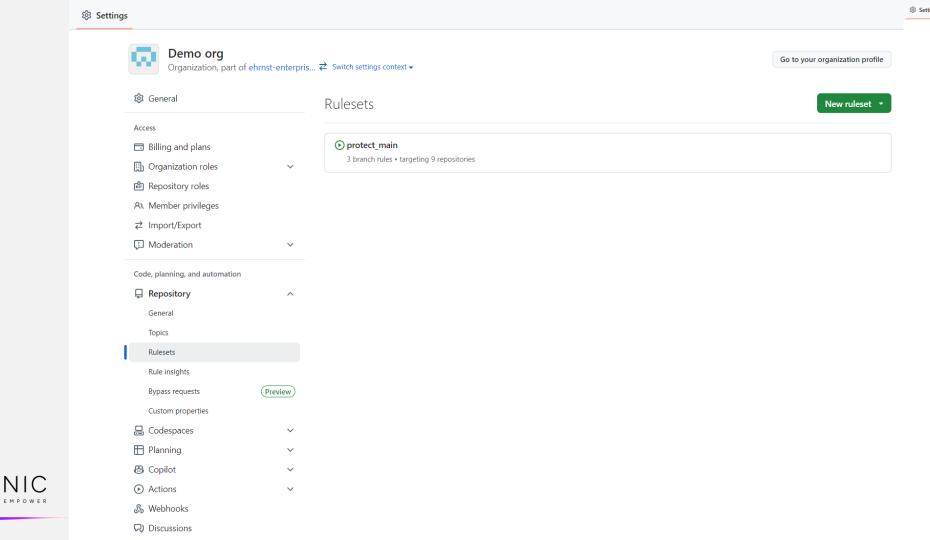


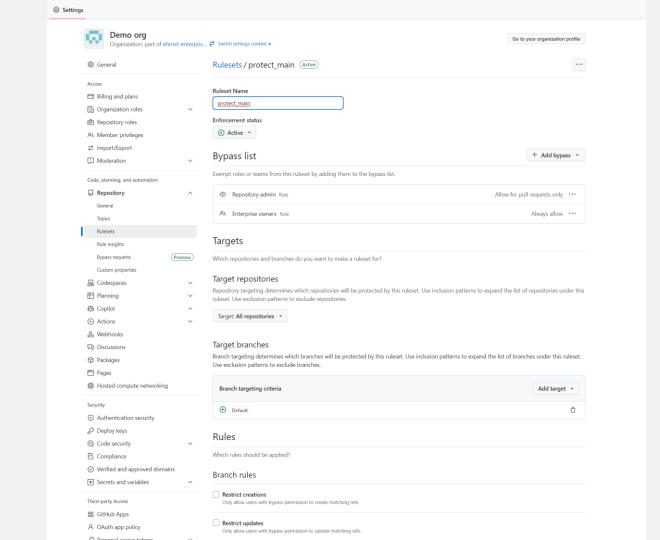


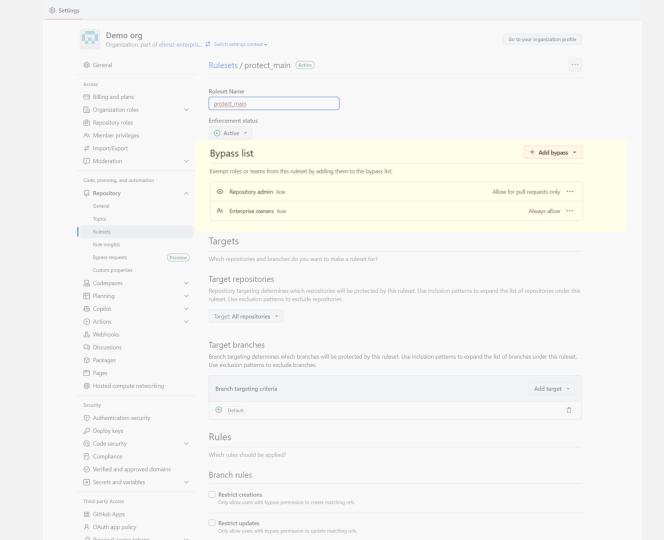














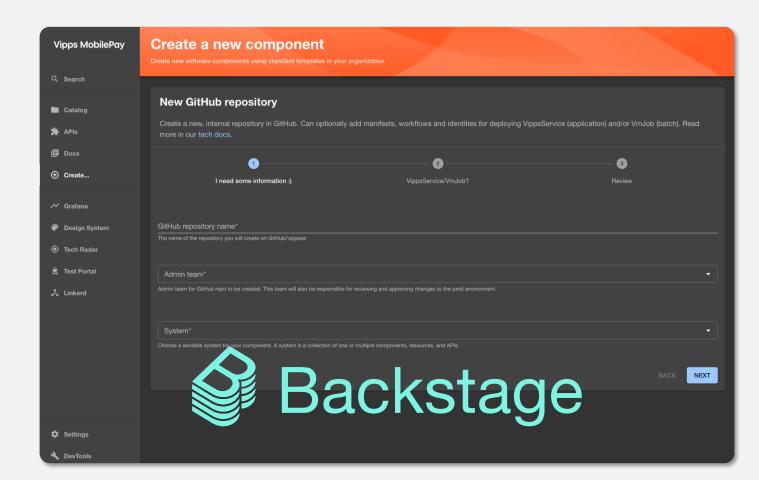




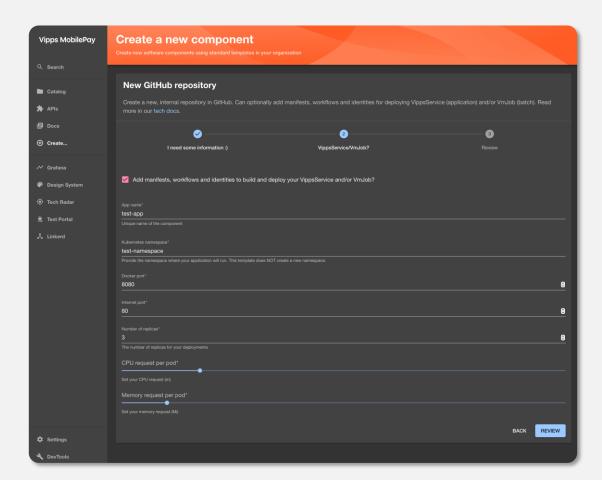
```
🚩 terraform { Untitled-1 🌘
       terraform {
           required_providers {
               github = {
                   source = "integrations/github"
                   version = "~> 6.0"
       provider "github" {
           token = var.github_token
       resource "github_repository" "example" {
           name = "example"
           description = "This is your first repository"
           visibility = "internal"
           repository_template {
               template owner = "adatum-inc"
 20
               template repo = "start-from-template"
```

\$ # Create a new github repo from a templa Untitled-1 ●

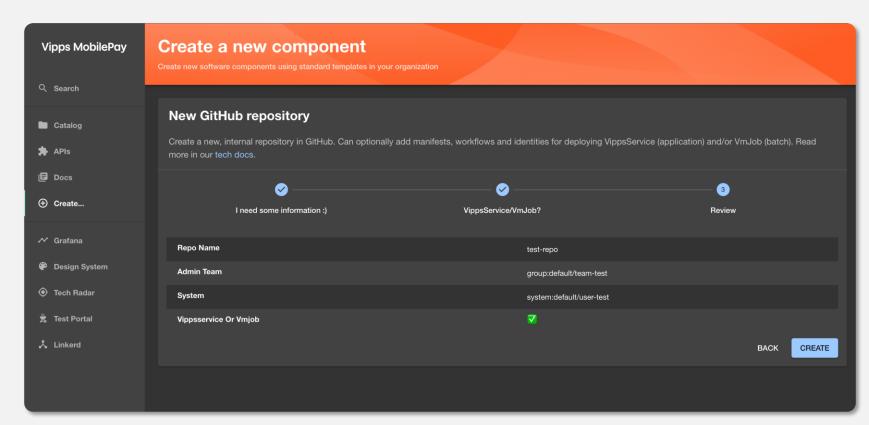
1 # Create a new github repo from a template
2
3 gh repo create my-new-repo --template adatum-inc/start-from-template --internal















```
Interpolation is a second in the second
```



# Thanks! Don't forget to evaluate





