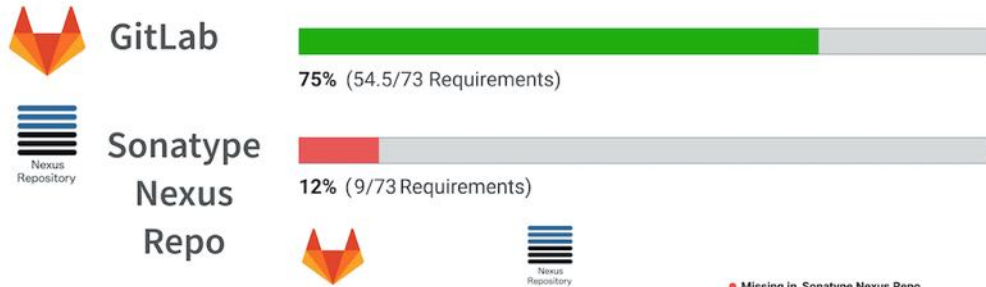


Sonatype GitLab vs Nexus Repository

Decision Kit



Category	GitLab Score	GitLab Progress	Sonatype Score	Sonatype Progress	Missing in Sonatype Nexus Repo
Manage	5.5/8	<div style="width: 69%;"></div>	1/8	<div style="width: 12.5%;"></div>	<ul style="list-style-type: none"> Subgroups Audit Events Audit Reports Compliance Management Code Analytics DevOps Reports Value Stream Management Insights
Plan	6/8	<div style="width: 75%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Issue Tracking Kanban Boards Time Tracking Epics Roadmaps Service Desk Requirements Management Quality Management
Create	7.5/8	<div style="width: 93.75%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Source Code Management Code Review Wiki Static Site Editor Web IDE Live Preview Snippets Design Management
Verify	6/8	<div style="width: 75%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Continuous Integration Code Quality Code Testing and Coverage Load Testing Web Performance Usability Testing Accessibility Testing Merge Trains
Package	4.5/6	<div style="width: 75%;"></div>	6/7	<div style="width: 85.7%;"></div>	<ul style="list-style-type: none"> Package Registry Container Registry Helm Chart Registry Dependency Proxy Jupyter Notebooks Git LFS Dependency Firewall
Secure	7/8	<div style="width: 87.5%;"></div>	2/8	<div style="width: 25%;"></div>	<ul style="list-style-type: none"> SAST DAST Fuzz Testing Dependency Scanning Container Scanning License Compliance Secret Detection Vulnerability Management
Release	7/8	<div style="width: 87.5%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Continuous Delivery Pages Review Apps Advanced Deployments Feature Flags Release Orchestration Release Evidence Secrets Management
Configure	4.5/7	<div style="width: 64.3%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Auto DevOps Kubernetes Configuration ChatOps Runbooks Serverless Infrastructure as Code Cluster Cost Optimization
Monitor	5/8	<div style="width: 62.5%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Metrics Alert Management Incident Management Logging Tracing Error Tracking Product Analytics Synthetic Monitoring
Defend	1.5/3	<div style="width: 50%;"></div>		<div style="width: 0%;"></div>	<ul style="list-style-type: none"> Web Application Firewall Container Host Security Container Network Security

Sonatype Nexus Repository (available in both OSS and Pro) is a part of the Sonatype Nexus suite. Other products are Nexus Lifecycle, Nexus Auditor, Nexus Firewall, Nexus Platform, and the Nexus Intelligence service.

Both Sonatype and GitLab offer a binary artifact repository and container registry, but Sonatype currently offers a support for more package types.

Feature Comparison

FEATURES



Built-in Container Registry

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

GitLab Container Registry is a secure and private registry for Docker images. It allows for easy upload and download of images from GitLab CI. It is fully integrated with Git repository management. (Codefresh will be ending their support for private docker registries as of May 1, 2020)



[Documentation on Container Registry](#)

Docker image support

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Supports storage and retrieval of Docker style containers.



[Learn more about the GitLab container registry](#)

Container registry webhooks

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Trigger actions after a successful push to a registry to integrate Docker Hub with other services.



[Learn more about GitLab registry webhooks](#)

Container registry high availability

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Highly available through the use of multiple replicas of all containers and metadata such that if a machine fails, the registry continues to operate and can be repaired.



[Learn more about GitLab high availability](#)

Container Registry geographic replication

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Supports distributed teams by running multiple registry instances across several regions and syncing between data centers.



[Learn more about GitLab replication](#)

Supports private container registries

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Offers the ability to have private container registries and repositories



[Learn more about GitLab private container registries](#)

SaaS container registry offering

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

The container registry is available as a software service.



[Learn more about the container registry available on GitLab.com](#)

Self-managed container registry offering

CORE	STARTER	PREMIUM	ULTIMATE
FREE	BRONZE	SILVER	GOLD

Container registry which is available to be self-installed and self-managed in an organizations data center, co-hosted, or in a chosen cloud provider.



[Learn more about self-installing GitLab](#)

Use container registry through REST API

CORE	STARTER	PREMIUM	ULTIMATE
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	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>Enables support for automation and integration of container registry through a REST API.</p> <p>View the docs</p>					✓	✓
<p>Lower the cost of storage for the GitLab Container Registry by running garbage collection</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>In the context of the Docker registry, garbage collection is the process of removing blobs from the filesystem when they are no longer referenced by a manifest.</p> <p>Check out the documentation, and get started today.</p>					✓	✓
<p>Use search to find and container images</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>Search your group and project's Container Registry by image name</p> <p>Learn more about the GitLab Container Registry</p>					✓	✓
<p>Helm chart repository support</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>Supports storage and retrieval of Helm charts.</p> <p>View the GitLab issue.</p>					✓	✗
<p>Image Expiration policies</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>Easily define, manage and update project-level policies to define which images should be removed and preserved. This feature is designed to help you reduce storage costs and prevent important images from being deleted.</p> <p>Learn more about Image Expiration policies</p>					✓	✓
<p>Leverage virtual package registries to simplify package management workflows.</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>A virtual registry is a collection of local, remote and other virtual registries accessed through a single logical URL.</p> <p>GitLab Epic detailing the issues required to add this functionality.</p>					✓	✗
<p>Forward requests for packages not found in GitLab to npmjs.com</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>By default, when an NPM package is not found in the GitLab NPM Registry, the request is forwarded to npmjs.com</p> <p>Check out the docs to learn more</p>					✓	✓
<p>Conan (C/C++) Repository</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>Conan is an open source, decentralized and multi-platform C/C++ Package Manager for developers to create and share native binaries.</p> <p>Documentation on the Conan Repository</p>					✓	✓
<p>Maven (Java) Repository</p>						
	CORE	STARTER	PREMIUM	ULTIMATE		
	FREE	BRONZE	SILVER	GOLD		
<p>GitLab's Maven repository makes it easier to publish and share Java libraries across an organization, and ensure dependencies are managed correctly. It is fully integrated with GitLab, including</p>					✓	✓

authentication and authorization.

[Documentation on the Maven Repository](#)

NPM (node) Registry



GitLab's NPM repository makes it easier to publish and share NPM packages across an organization, and ensure dependencies are managed correctly. It is fully integrated with GitLab, including authentication and authorization.



[Documentation on the NPM Registry](#)

NuGet (.NET) Repository



GitLab's NuGet Repository allows C#/.NET developers to create, publish and share packages using the NuGet client or visual studio.



[Documentation on the NuGet Repository](#)

PyPI (Python) Repository

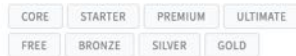


Python developers can set up GitLab as a remote PyPI repository and build, publish, and share packages using the PyPI client or GitLab CI/CD.



[Documentation for the PyPI Repository](#)

RPM (Linux) Repository

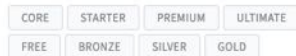


This planned feature will enable Linux developers to build, publish and share RPM packages alongside their source code and pipelines.



[Check out the issue for additional details on implementation and timing](#)

Debian (Linux) Repository



This planned feature will enable Linux developers to build, publish and share Debian packages alongside their source code and pipelines.



[Check out the issue for additional details on implementation and timing](#)

RubyGems (Ruby) Repository



This planned feature will enable Ruby developers to setup GitLab as a remote RubyGems repository and to build, publish and share packages using the command line or GitLab CI/CD. This will also be a valuable feature for GitLab and help with [dogfooding](#)



[Check out the issue for additional details on implementation and timing](#)

Go Proxy



This planned feature will enable Go developers to publish and share their packages right alongside their source code and pipelines. This will also be a valuable feature for GitLab and help with [dogfooding](#)



[Read the Go Proxy docs](#)

Composer (PHP) Repository



This planned feature will enable PHP developers to build, publish and share their packages right alongside their source code and pipelines.



[Check out the docs](#)

Use the Package Registry through REST API



Enables support for automation and integration of the GitLab Package Registry through a REST API.

[Documentation on API](#)

Get Your Free Trial



Why GitLab?

- Product
- Solutions
- Services
- DevOps lifecycle
- DevOps tools
- Is it any good?
- Releases
- Pricing
- Get started

Resources

- All resources
- All-Remote
- Blog
- Newsletter
- Events
- Webcasts
- Topics
- Training
- Docs
- Install

Community

- Customers
- Contribute
- Partners
- Channel Partners
- Explore repositories
- Source code
- Shop
- Direction
- Contributors
- Core Team
- Hall of fame
- Community Forum

Support

- Get help
- Contact Sales
- Contact Support
- Support options
- Status
- Customers portal

Company

- About
- What is GitLab?
- Jobs
- Culture
- Team
- Press
- Analysts
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