



GitProtect.io | GitHub use cases



Enterprise backup, recovery, and resilience controls for GitHub

Understand key areas where a third-party backup
for your GitHub account makes a difference

USE CASE: BACKUP AUTOMATION

Set GitHub protection to automatic, not manual

GitProtect lets you create both scheduled and on-demand restore points to ensure your data is captured exactly when needed.



Eliminate dependence on human discipline

GitHub backups should run on schedule, not on reminders or individual ownership.



Create predictable restore points

A defined cadence makes backup readiness measurable and operationally reliable.



Establish checkpoints before risk

On-demand execution helps teams protect major changes, migrations, and release windows.



How GitProtect operationalizes backup automation

1 Scheduled backup execution

GitProtect runs backups on a user defined schedule, which helps turn restore-point creation into a predictable operating routine, rather than a manual task.

2 Time-zone-aware scheduling

GitProtect supports time-zone configuration, which helps align backups with regional working windows and reduces the risk of plans running at the wrong time.

3 On-demand backup runs

A backup can be triggered at any time, which helps teams create a controlled checkpoint before releases, migrations, or other high-risk changes.

4 Error-handling for missed runs

GitProtect can rerun overdue tasks when conditions allow, which helps prevent temporary failures or offline devices from becoming lasting protection gaps.

USE CASE: FLEXIBLE DEPLOYMENT

Deployment model: align GitHub backup with control requirements

Deploy your GitHub backup solution with architectural flexibility: as SaaS, hybrid, or on-premises. Ensure protection across all cloud-based and self-hosted GitHub environments.



Deployment selection is typically shaped by **data sensitivity, internal policies, or regulatory compliance.**



GitProtect matches your operating model by **supporting GitHub Enterprise Cloud, Server, and Cloud with Data Residency** for total regional data control.



GitProtect's deployment also adapts to your infrastructure needs, **deploying seamlessly as a fully managed SaaS or as a self-hosted, on-premises solution.**



GitProtect's deployment models & GitHub installations

1 SaaS deployment option

GitProtect provides a SaaS deployment model, enabling organizations to implement backup protection without the need to build or operate the underlying infrastructure themselves.

2 Hybrid execution model

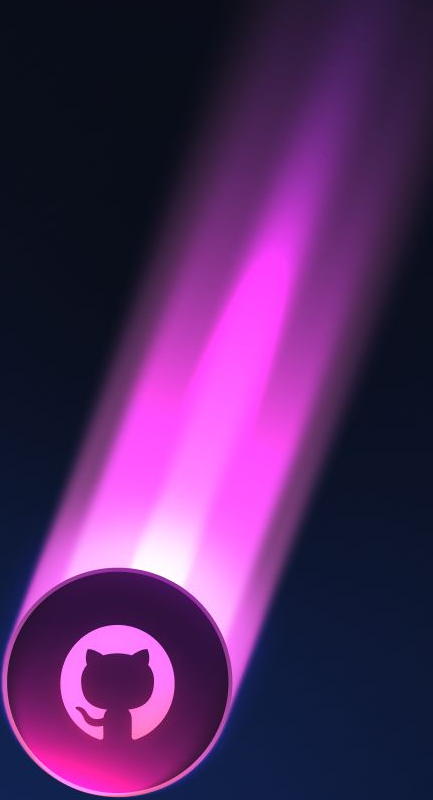
GitProtect maintains management in the cloud while execution runs via a customer-hosted local agent, securing private-network resources and ensuring reachability when network boundaries limit vendor-hosted access.

3 On-prem deployment option

GitProtect supports full on-premises deployment, allowing organizations to maintain the backup service entirely within their own infrastructure whenever policy or architecture mandates it.

4 Comprehensive GitHub installation support

Regardless of your GitProtect deployment, the system integrates seamlessly across GitHub installation variants, including GitHub Enterprise Cloud, Server, or Cloud with Data Residency.



USE CASE: **RECOVERY**

Versatile recovery across GitHub destinations

Scalable and flexible recovery options ensure that any specific version of your data is consistently ready for point-in-time restoration to any destination: existing or new.



Recovery should support **more than returning to the original environment**.



Large-scale incidents require **destination choice and operational visibility**.



Point-in-time recovery helps **restore the right known-good state**, not just the latest available copy.

How GitProtect supports controlled recovery

1 Point-in-time and granular recovery selection

GitProtect offers granular recovery precision to address specific disruptions or compliance requirements. Teams can select exact backup versions to ensure point-in-time recovery that aligns with a specific incident window, rather than being forced to restore an arbitrary latest state.

2 Restore to original or another GitHub destination

GitProtect supports recovery to the original target or an alternative destination (in selected scenarios). Users can restore to the same or new GitHub destination, including between cloud and self-hosted. This flexibility is essential when the primary GitHub environment is unavailable or a different recovery site is preferred for testing or migration.

3 Visible restore execution

Restore tasks are tracked through task summaries and details, which helps large recovery operations stay manageable rather than running as blind processes.

An abstract graphic on the left side of the slide. It features several concentric circles and elliptical orbits in shades of blue and white. A small white ring with a dark blue interior is positioned on one of the orbits. Dotted lines and arrows suggest a path or trajectory around a central point.

USE CASE: DATA RETENTION

Retain data long enough for meaningful recovery

How far back can you recover your data? GitProtect lets you set custom retention periods, including infinite, to ensure your backup history is always available when needed.



Align your backup history with audit and compliance

needs: retention must reflect real governance requirements, not arbitrary defaults.



Protected recoverability over time: GitProtect ensures even the oldest copies remain restorable.



Support delayed incident discovery: not every loss or corruption event is detected immediately; custom retention helps you address this.

How GitProtect supports GitHub retention strategy

1 Policy-based retention per backup plan

GitProtect lets teams define retention as part of the backup plan, which helps align recovery history with business and governance requirements instead of relying on default behavior.

2 Configurable retention rules

GitProtect supports multiple retention approaches, which helps organizations balance short-term operational recovery with longer-term evidence and history needs. An unlimited retention ensures all recovery points are kept forever.

3 Retention that preserves restore chains

GitProtect does not remove versions if doing so would break the backup chain, which helps avoid backup copies that exist but cannot be restored.

4 Retention managed alongside scheduling

Retention is configured together with schedule settings, which helps keep recovery history intentional and easier to govern over time.

USE CASE: STORAGE FLEXIBILITY

Store backups where your policy dictates

With GitProtect, your data resides in your preferred locations with multiple copies for complete security and controlled access.



Ensure storage types adhere to your corporate policies regarding security, residency, and procurement.



Preserve recovery independence from the primary environment.



Avoid forcing one storage model on every workload and every region.



How GitProtect supports storage flexibility

1 Multiple storage destinations

GitProtect supports multiple datastores to avoid locking all backup copies into a single storage model.

2 Plan-to-storage assignment

Backup plans can be linked to selected storages, which helps different data sets follow different residency, cost, or governance requirements while staying centrally managed.

3 Support for cloud, local, and network-based storage options

GitProtect supports a range of storage types to seamlessly align backup architecture with approved infrastructure rather than creating a separate standard.

4 Storage strategy that can evolve over time

Additional storage destinations can be added as needed to strengthen resilience without redesigning the backup operating model.

USE CASE: **ENCRYPTION**

Maintain end-to-end privacy for your backup data

GitProtect's integrated security measures ensure your backup data remains private and protected throughout its entire lifecycle.



Your **backup copies** contain sensitive intellectual property and operational context. **Encrypting them is of utmost importance.**



GitProtect ensures that **encryption protects data before it leaves the environment**, during transfer, and while in the storage.



At GitProtect, **strong encryption is standard**, not optional.



How GitProtect applies encryption controls

1 AES encryption with selectable strength

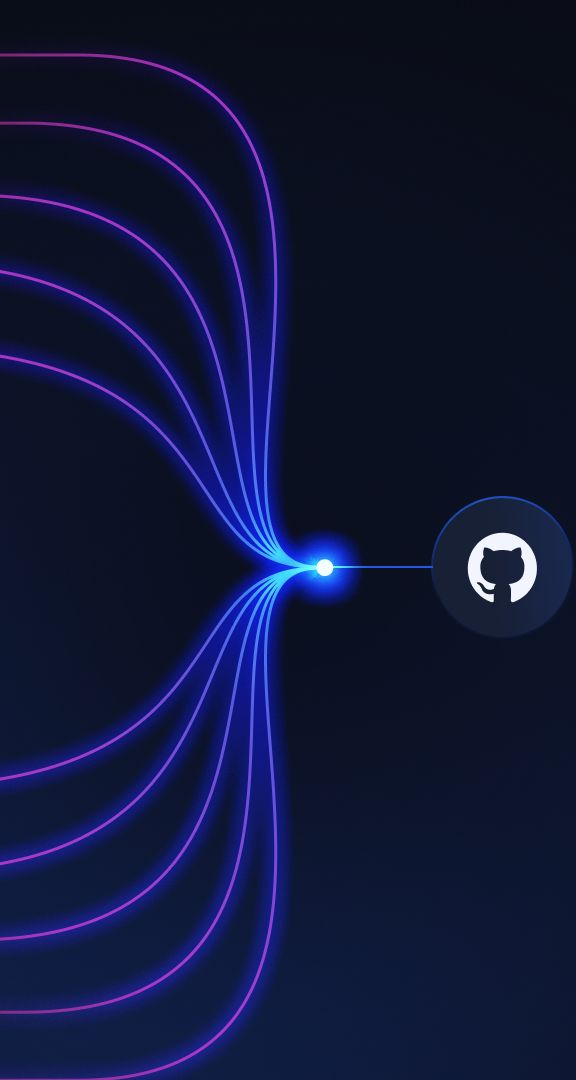
GitProtect supports AES encryption with selectable strengths, allowing organizations to balance protection with internal performance requirements. In-flight encryption further secures data during transfer, minimizing exposure as backups move to storage.

2 Customer-defined encryption key

GitProtect supports a private, user-defined encryption key helping organizations retain control over how backup data is decrypted.

3 Restricted access to credential storage mechanisms

GitProtect limits access to credential storage mechanisms to reduce the risk that a compromised machine also exposes accesses to backup storage.



USE CASE: DATA MOBILITY AND MIGRATIONS

Utilize backups to enable safe transitions to GitHub

GitProtect enables recovery into new environments, allowing teams to use backups for both, system migrations and development testing.



Backups should facilitate migrations and system transitions, extending their value beyond simple incident recovery.



Change is safer when **teams have a reliable rollback point** tied to a known healthy state.



The ability to migrate data freely **reduces platform dependency and minimizes the risk** of major transformation projects.

How GitProtect supports controlled data mobility

1 Cross-platform recovery for migrations

GitProtect supports cross-recovery scenarios, enabling organizations to leverage backup data for platform transitions and migration workflows instead of treating it as an incident-only tool. You can easily migrate to GitHub from another git-hosting platform.

2 Alternative restore destinations

Recovery can target different environments in supported scenarios, allowing teams to use backup data for staging, archiving, controlled imports, or strategic transition planning.

3 Governed point-in-time migrations

GitProtect lets teams select the exact backup version for recovery, ensuring that migration testing and cutover work remain aligned to a known, stable state. By managing these restores through structured plans and tasks, mobility workflows remain fully visible, governed, and repeatable rather than improvised.



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