

Security Controls

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Why secure shared repositories?

Imagine leaving the door to your home unlocked—anyone could enter! The same goes for code repositories. We need to lock the door to keep our code safe.

Key Points:

- Protect your intellectual property.
- Prevent unauthorized changes.
- Maintain trust and code integrity.

What could go wrong?

Without security, anyone could...

- Steal or leak your code.
- Modify your code maliciously.
- Delete critical components.

Basic security steps

Let's start with the basics—just like locking your front door.

- Step 1: Use strong passwords.
- Step 2: Enable two-factor authentication.
- Step 3: Review access permissions regularly.

Code Review and Collaboration

Reviewing code with peers helps catch mistakes early.

- Have at least one other person review your code.
- Use tools like GitHub's pull requests for collaborative reviews.

Encryption – Keeping Data Safe

Encryption means turning data into a secret code. This way, even if it's stolen, no one can read it!

- Use HTTPS for secure communication.
- Encrypt sensitive data in your repository.

Monitor Activity

Set up alerts to know who's doing what. Think of it like a home security system for your code.

- Use GitHub's security settings to track changes.
- Enable notifications for unusual activities.

Backup and Restore

Always have a backup, just in case something goes wrong—like saving your homework twice.

- Schedule regular backups of your repository.
- Keep a separate copy offline for extra safety.

Best Practices:

Here's your security checklist!

- Strong passwords
- Two-factor authentication
- Code reviews
- Encryption
- Backups

References:

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