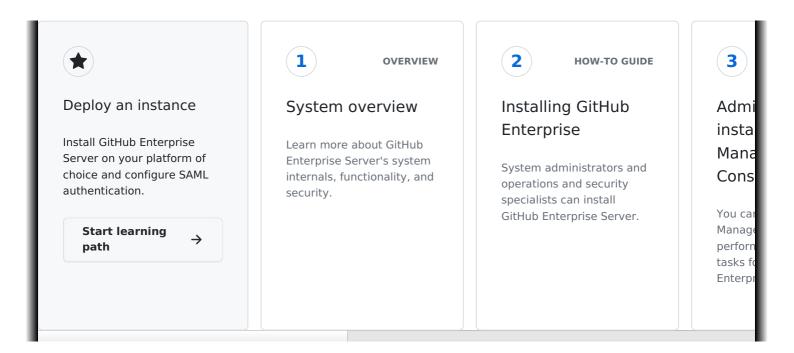This version of GitHub Enterprise was discontinued on 2023-03-15. No patch releases will be made, even for critical security issues. For better performance, improved security, and new features, upgrade to the latest version of GitHub Enterprise. For help with the upgrade, contact GitHub Enterprise support.
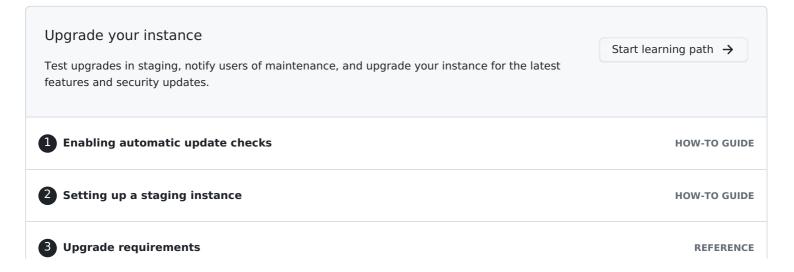
Guides for GitHub Enterprise

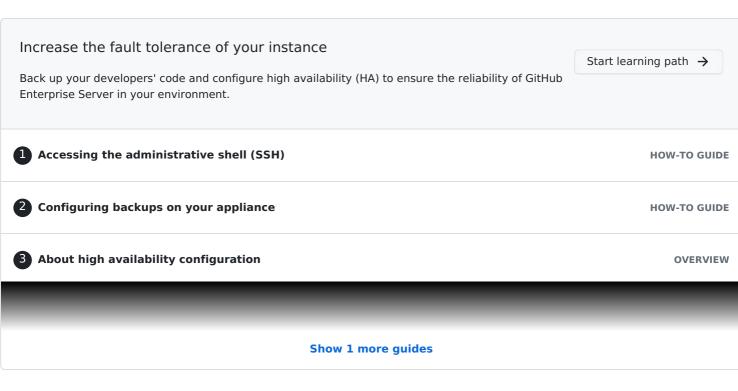Learn how to increase developer productivity and code quality with GitHub Enterprise Server.

★ Deploy an instance

Install GitHub Enterprise Server on your platform of choice and configure SAML authentication.

Start learning path →

1 OVERVIEW

System overview

Learn more about GitHub Enterprise Server's system internals, functionality, and security.

2 HOW-TO GUIDE

Installing GitHub Enterprise

System administrators and operations and security specialists can install GitHub Enterprise Server.

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Enterprise administrators learning paths 🔗

Learning paths are a collection of guides that help you master a particular subject.

Upgrade your instance

Test upgrades in staging, notify users of maintenance, and upgrade your instance for the latest features and security updates.

Start learning path →

1	**Enabling automatic update checks**	HOW-TO GUIDE
2	**Setting up a staging instance**	HOW-TO GUIDE
3	**Upgrade requirements**	REFERENCE

Adopt GitHub Actions for your enterprise

Learn how to plan and implement a rollout of GitHub Actions in your enterprise.

Start learning path →

1 **About GitHub Actions for enterprises** OVERVIEW

2 **Understanding GitHub Actions** OVERVIEW

3 **Introducing GitHub Actions to your enterprise** HOW-TO GUIDE

Increase the fault tolerance of your instance

Back up your developers' code and configure high availability (HA) to ensure the reliability of GitHub Enterprise Server in your environment.

Start learning path →

1 **Accessing the administrative shell (SSH)** HOW-TO GUIDE

2 **Configuring backups on your appliance** HOW-TO GUIDE

3 **About high availability configuration** OVERVIEW

Improve the security of your instance

Review network configuration and security features, and harden the instance running GitHub Enterprise Server to protect your enterprise's data.

Start learning path →

1 **Enabling private mode** HOW-TO GUIDE

2 **Configuring TLS** HOW-TO GUIDE

③ **Troubleshooting TLS errors**   HOW-TO GUIDE

Show 5 more guides

Configure GitHub Actions

Allow your developers to create, automate, customize, and execute powerful software development workflows for your GitHub Enterprise Server instance with GitHub Actions.

Start learning path →

① **Getting started with GitHub Actions for GitHub Enterprise Server**   HOW-TO GUIDE

② **Enforcing policies for GitHub Actions in your enterprise**   HOW-TO GUIDE

③ **Enabling automatic access to GitHub.com actions using GitHub Connect**   HOW-TO GUIDE

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Configure GitHub Advanced Security

Improve the quality and security of your developers' code with GitHub Advanced Security.

Start learning path →

① **About billing for GitHub Advanced Security**   OVERVIEW

② **Enabling GitHub Advanced Security for your enterprise**   HOW-TO GUIDE

③ **Configuring code scanning for your appliance**   HOW-TO GUIDE

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All Enterprise administrators guides 🔗

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Allowing built-in authentication for users outside your provider

HOW-TO GUIDE

You can configure fallback authentication to allow built-in authentication for people who don't have an account on your CAS, LDAP, or SAML authentication provider.

Accounts   Authentication   Enterprise   Identity

Changing authentication methods

OVERVIEW

You can change the way GitHub Enterprise Server authenticates with your existing accounts at any time.

Accounts   Authentication   Enterprise   Identity

Configuring SAML single sign-on for your enterprise

HOW-TO GUIDE

You can control and secure access to your GitHub Enterprise Server instance by configuring SAML single sign-on (SSO) through your identity provider (IdP).

Accounts   Authentication   Enterprise   Identity   SSO

About SAML for enterprise IAM

OVERVIEW

You can use SAML single sign-on (SSO) to centrally manage access to your GitHub Enterprise Server instance.

Accounts   Access management   Authentication   Enterprise   Identity

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Configuring SAML single sign-on for your enterprise

HOW-TO GUIDE

You can control and secure access to your GitHub Enterprise Server instance by configuring SAML single sign-on (SSO) through your identity provider (IdP).

Accounts   Authentication   Enterprise   Identity   SSO

Using CAS

HOW-TO GUIDE

If you use Central Authentication Service (CAS) to centralize access to multiple web applications, you can integrate GitHub Enterprise Server by configuring CAS authentication for your instance.

Accounts   Authentication   Enterprise   Identity   SSO

Using LDAP

HOW-TO GUIDE

If you use Lightweight Directory Access Protocol (LDAP) to centralize access across applications, you can integrate GitHub Enterprise Server by configuring LDAP authentication for your instance.

Accounts   Authentication   Enterprise   Identity

Using SAML for enterprise IAM

You can centrally manage accounts and access to your GitHub Enterprise Server instance with SAML single sign-on (SSO).

Accessing the administrative shell (SSH)

HOW-TO GUIDE

SSH access allows you to run the GitHub Enterprise Server command line utilities to troubleshoot, run backups, and configure replication.

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