Guides for Codespaces

Learn how to make the most of GitHub

All GitHub Codespaces guides 🔗

53 guides found

Quickstart for GitHub Codespaces

QUICKSTART

Try out GitHub Codespaces in 5 minutes.

Codespaces

Deep dive into GitHub Codespaces

QUICKSTART

Understand how GitHub Codespaces works.

Codespaces

Introduction to dev containers

HOW-TO GUIDE

When you work in a codespace, the environment you are working in is created using a development container, or dev container, hosted on a virtual machine.

Codespaces   Set up   Fundamentals

Setting up a Node.js project for GitHub Codespaces

TUTORIAL

Get started with a Node.js, JavaScript, or TypeScript project in GitHub Codespaces by creating a custom dev container configuration.

Codespaces   Developer   Set up

Setting up a Python project for GitHub Codespaces

TUTORIAL

Get started with a Python project in GitHub Codespaces by creating a custom dev container configuration.

Codespaces   Developer   Set up

Setting up a C# (.NET) project for GitHub Codespaces

TUTORIAL

Get started with a C# (.NET) project in GitHub Codespaces by creating a custom dev container configuration.

Codespaces   Developer   Set up

Setting up a Java project for GitHub Codespaces

TUTORIAL

Get started with a Java project in GitHub Codespaces by creating a custom dev container configuration.

Codespaces Developer Set up

Setting up a PHP project for GitHub Codespaces
TUTORIAL

Get started with a PHP project in GitHub Codespaces by creating a custom dev container configuration.

Codespaces Developer Set up

Setting a minimum specification for codespace machines
HOW-TO GUIDE

You can avoid under-resourced machine types being used for GitHub Codespaces for your repository.

Codespaces Set up

Adding features to a devcontainer.json file
HOW-TO GUIDE

With features, you can quickly add tools, runtimes, or libraries to your dev container configuration.

Codespaces Set up

Automatically opening files in the codespaces for a repository
HOW-TO GUIDE

You can set particular files to be opened automatically whenever someone creates a codespace for your repository and opens the codespace in the Visual Studio Code web client.

Codespaces Set up

Specifying recommended secrets for a repository
HOW-TO GUIDE

You can add a setting to your dev container configuration that will prompt people to set specific secrets when they create a codespace.

Codespaces Set up

Facilitating quick creation and resumption of codespaces
HOW-TO GUIDE

You can add a link to take people straight to a page for creating a codespace, with your choice of options preconfigured. Alternatively you can link to the "Resume codespace" page.

Codespaces Set up

Setting up a template repository for GitHub Codespaces
HOW-TO GUIDE

You can help people get started with a project by setting up a template repository for use with GitHub Codespaces.

Codespaces Set up

Personalizing GitHub Codespaces for your account
HOW-TO GUIDE

You can personalize GitHub Codespaces by using a dotfiles repository on GitHub Enterprise Cloud or by using Settings Sync.

Codespaces Set up Fundamentals

Creating a codespace for a repository
HOW-TO GUIDE

You can create a codespace for a branch in a repository to develop online.

Codespaces Fundamentals Developer

Creating a codespace from a template

HOW-TO GUIDE

If you're starting a new project, you can create a codespace from a blank template or choose a template specially designed for the type of work you want to do.

Codespaces Fundamentals Developer

Developing in a codespace

HOW-TO GUIDE

You can work in a codespace using your browser, Visual Studio Code, a JetBrains IDE, or in a command shell.

Codespaces Fundamentals Developer

Deleting a codespace

HOW-TO GUIDE

You can delete a codespace you no longer need.

Codespaces Fundamentals Developer

Forwarding ports in your codespace

HOW-TO GUIDE

You can forward ports in your codespace to test and debug your application. You can also manage the port protocol and share the port within your organization or publicly.

Codespaces Fundamentals Developer

Opening an existing codespace

HOW-TO GUIDE

You can reopen a codespace that you have closed or stopped and return to your work.

Codespaces Fundamentals Developer

Stopping and starting a codespace

HOW-TO GUIDE

You can stop and start your codespace to save resources and to pause work.

Codespaces Fundamentals Developer

Working collaboratively in a codespace

HOW-TO GUIDE

You can work collaboratively with other people in a codespace by using Visual Studio Live Share.

Codespaces Developer

Using GitHub Codespaces in Visual Studio Code

HOW-TO GUIDE

You can develop in your codespace directly in Visual Studio Code by connecting the GitHub Codespaces extension with your account on GitHub Enterprise Cloud.

Codespaces Visual Studio Code Developer

Using GitHub Codespaces in your JetBrains IDE

HOW-TO GUIDE

You can use the JetBrains Gateway to connect to your codespace and work in your favorite JetBrains IDE.

Codespaces   Developer

Using GitHub Codespaces with GitHub CLI

HOW-TO GUIDE

You can work with GitHub Codespaces directly from your command line by using gh, the GitHub Enterprise Cloud command line interface.

Codespaces   CLI   Developer

Using source control in your codespace

HOW-TO GUIDE

After making changes to a file in your codespace you can quickly commit the changes and push your update to the remote repository.

Codespaces   Fundamentals   Developer

Using GitHub Codespaces for pull requests

HOW-TO GUIDE

You can use GitHub Codespaces in your web browser, or in Visual Studio Code to create pull requests, review pull requests, and address review comments.

Codespaces   Visual Studio Code   Developer

Changing the machine type for your codespace

HOW-TO GUIDE

You can change the type of machine that's running your codespace, so that you're using resources appropriate for the work you're doing.

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Codespaces

Configuring automatic deletion of your codespaces

HOW-TO GUIDE

Inactive codespaces are automatically deleted. You can choose how long your stopped codespaces are retained, up to a maximum of 30 days.

Codespaces

Personalizing GitHub Codespaces for your account

HOW-TO GUIDE

You can personalize GitHub Codespaces by using a dotfiles repository on GitHub Enterprise Cloud or by using Settings Sync.

Codespaces   Set up   Fundamentals

Setting your default editor for GitHub Codespaces

HOW-TO GUIDE

You can set your default editor for Codespaces in your personal settings page.

Codespaces

Setting your default region for GitHub Codespaces
HOW-TO GUIDE

You can set your default region in the GitHub Codespaces profile settings page to personalize where your data is held.

`Codespaces`

Setting your timeout period for GitHub Codespaces
HOW-TO GUIDE

You can set your default timeout for GitHub Codespaces in your personal settings page.

`Codespaces`

Managing secrets for your codespaces
HOW-TO GUIDE

You can store sensitive information, like tokens, that you want to access in your codespaces via environment variables.

`Codespaces` `Developer` `Security` `Secret store`

Managing access to other repositories within your codespace

You can manage the repositories that GitHub Codespaces can access.

`Codespaces` `Security`

Managing GPG verification for GitHub Codespaces
HOW-TO GUIDE

You can allow GitHub to automatically use GPG to sign commits you make in your codespaces, so other people can be confident that the changes come from a trusted source.

`Codespaces` `Developer` `Security`

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Setting your default region for GitHub Codespaces
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`Codespaces`

Enabling or disabling GitHub Codespaces for your organization
HOW-TO GUIDE

You can control which users can use GitHub Codespaces in your organization's private and internal repositories.

`Codespaces` `Billing` `Administrator`

Managing the cost of GitHub Codespaces in your organization
REFERENCE

You can check your GitHub Codespaces usage and set usage limits.

`Codespaces` `Billing`

Managing secrets for your repository and organization for GitHub Codespaces

Secrets allow you to store sensitive information in your organization or repository for use with GitHub Codespaces.

Codespaces   Secret store   Security

Restricting access to machine types
HOW-TO GUIDE

You can set constraints on the types of machines users can choose when they create codespaces in your organization.

Codespaces

Restricting the base image for codespaces
HOW-TO GUIDE

You can specify which base images can be used for new codespaces created within your organization.

Codespaces

Restricting the idle timeout period
HOW-TO GUIDE

You can set a maximum timeout period for any codespaces owned by your organization.

Codespaces

Restricting the retention period for codespaces
HOW-TO GUIDE

You can set a maximum retention period for any codespaces owned by your organization.

Codespaces

Restricting the visibility of forwarded ports
HOW-TO GUIDE

You can set constraints on the visibility options users can choose when they forward ports from codespaces in your organization.

Codespaces

Reviewing your organization's audit logs for GitHub Codespaces
HOW-TO GUIDE

You can use the audit log to review all actions related to GitHub Codespaces.

Codespaces   Security   Administrator

About billing for GitHub Codespaces
OVERVIEW

Learn about the costs for using GitHub Codespaces, and the monthly usage quotas included with GitHub personal accounts.

Codespaces   Billing

Using the Visual Studio Code Command Palette in GitHub Codespaces
REFERENCE

You can use the Command Palette feature of Visual Studio Code to access many commands in GitHub Codespaces.

Codespaces   Visual Studio Code

Disaster recovery for GitHub Codespaces

This article describes guidance for a disaster recovery scenario, when a whole region experiences an outage due to major natural disaster or widespread service interruption.

Security in GitHub Codespaces

REFERENCE

Overview of the GitHub Codespaces security architecture, with guidelines to help you maintain security and minimize the risk of attack.

Codespaces   Security

Legal