

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.

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Deep dive into GitHub Codespaces

QUICKSTART

Understand how GitHub Codespaces works.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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Personalizing GitHub Codespaces for your account

HOW-TO GUIDE

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

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Creating a codespace for a repository

HOW-TO GUIDE

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

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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.

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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.

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Deleting a codespace

HOW-TO GUIDE

You can delete a codespace you no longer need.

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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.

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Opening an existing codespace

HOW-TO GUIDE

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

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Stopping and starting a codespace

HOW-TO GUIDE

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

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Working collaboratively in a codespace

HOW-TO GUIDE

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

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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.

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Using GitHub Codespaces in your JetBrains IDE

HOW-TO GUIDE

HOW-TO GUIDE

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

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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 command line interface.

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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.

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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.

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Visual Studio Code

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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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Changing the machine type for your codespace

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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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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.

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Personalizing GitHub Codespaces for your account

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

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Setting your default editor for GitHub Codespaces

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

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Setting your default region for GitHub Codespaces

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

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Setting your timeout period for GitHub Codespaces

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

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Managing secrets for your codespaces

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

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Managing access to other repositories within your codespace

You can manage the repositories that GitHub Codespaces can access.

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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.

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Setting your default editor for GitHub Codespaces

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

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Setting your default region for GitHub Codespaces

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

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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 repositories.

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Managing the cost of GitHub Codespaces in your organization

REFERENCE

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

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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.

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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.

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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.

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Restricting the idle timeout period

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

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Restricting the retention period for codespaces

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

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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.

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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.

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About billing for GitHub Codespaces

OVERVIEW

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

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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.

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[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.

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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.

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