~	200	ΧP	
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# Knowledge check

3 minutes

	vant to grant a user the permissions required to add and remove organization members to and from a team. Which permission you need to grant that user? *
	The admin permission on a repository
	The maintain permission on a repository
	Organization billing manager
	Team maintainer
. As ar	Correct! As a team maintainer, the user can add and remove organization members to and from a team.  n organization owner, you want to ensure that everyone who is signed in to your corporate network can access the GitHub website t requiring a second sign-in. Which technology would you enable to accomplish this? *
	Single sign-on
•	Correct! Single sign-on is the right technology to allow network users to access the GitHub website without extra sign-ins.
$\bigcirc$	Two-factor authentication
$\bigcirc$	Personal Access Tokens
	SSH keys
. Wha	t's the appropriate repository permission level for contributors who need to actively push changes to your repository? *
	admin
	write
•	✓ Correct! The write permission is the appropriate permission level.
	triage
	maintain
	unit: Summary

< Previous Unit 6 of 7 > Next >

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# Knowledge check

3 minutes

1. Wh	at type of user authentication is used to verify a user identity against a known identity provider? *
	Two-factor authentication (2FA)
	Time-based One-time Password (TOTP)
	SAML Single Sign-on (SAML SSO)
	✓ SAML authentication is a process used to verify user identity and credentials against a known identify provider.
	Short Message Service (SMS)
	u're an admin and want to enable team synchronization for your organization. What installation permissions do you need to gure team synchronization for Microsoft Entra ID? *
$\bigcirc$	Provide the tenant URL
	Read all users' full profiles
	✓ To enable team synchronization for Microsoft Entra ID, the installation needs the following permissions: read all users' full profiles, sign in and read user profile, and read directory data.
	Generate a valid Single Sign-on for Web Systems (SSWS) token
	Enable SAML Single Sign-on (SSO)
3. Wh	permissions for your Okta installation as a service user.  nere does a user authenticate after enabling SAML Single sign-on? *
	With a GitHub login
	With the organization credentials
	X Organization credentials are a different form of authentication.
	With the Identity Provider (IdP)
	✓ When a member accesses resources within an organization that uses SAML SSO, GitHub redirects the member to the IdP to authenticate.
4. Wh	nat two-factor authentication method supports the secure backup of your authentication codes in the cloud? *
4. Wh	nat two-factor authentication method supports the secure backup of your authentication codes in the cloud? *  Time-based One-time Password (TOTP)
4. Wh	
4. Wh	Time-based One-time Password (TOTP)  ✓ TOTP apps support the secure backup of your authentication codes in the cloud, and can be restored if you lose access to your

# Knowledge check

5 minutes

1. Whi	1. Which directory is the clone placed after creating a Codespace? *		
	/workspaces directory		
	✓ Correct. After you create a Codespace, the clone is placed into the /workspace directory.		
	/temp directory		
	~/.bashrc directory		
$\bigcirc$	Linux directory		
2. Wh	at's the maximum number of Codespaces that you can create per repository or branch? *		
	You can only create two Codespaces.		
	You can create a total of ten Codespaces.		
$\bigcirc$	You can create a total of thirty Codespaces.		
	You can create an unlimited number of Codespaces per repository or branch, depending upon available space. When you reach an upper amount of resources, a message displays that an existing Codespace needs to removed/deleted before a new Codespace can be created.		
3. Wh	✓ Correct. You can have an unlimited number of Codespaces per repository or even per branch. However, there are limits to the number of Codespaces that you can create and run at the same time. at happens when Codespace loses internet connectivity? *		
	If the connection to the internet is lost while working in a Codespace, you aren't able to access your Codespace.		
	✓ Correct. A Codespace requires an internet connection. If the connection to the internet is lost while working in a Codespace, you aren't able to access your Codespace.		
	Codespace doesn't require an internet connection. I can access my Codespace regardless if I lose connectivity.		
$\bigcirc$	If you lose internet connection while working on your Codespace, your changes aren't saved.		
4. Wh	at defines the beginning of a Codespace's lifecycle? *		
	A Codespace's lifecycle begins when you create a Codespace and ends when you delete it.		
	✓ Correct. A Codespace's lifecycle begins when you create a Codespace and ends when you delete it.		
	A Codespace's lifecycle begins immediately when GitHub is opened and ends when the software is closed.		
$\bigcirc$	A Codespace's lifecycle begins when a repository is created and ends when it's deleted.		

200 XP

# Knowledge check

5 minutes

1. How	does GitHub Copilot work? *
	GitHub Copilot uses prompts and natural language text that you type to provide coding suggestions.
	<ul> <li>Correct! GitHub Copilot is trained on billions of lines of code. It turns natural language prompts into coding suggestions across dozens of languages.</li> </ul>
$\bigcirc$	GitHub Copilot uses lights, that you type, and it provides suggestions based on what you type.
$\bigcirc$	GitHub Copilot uses radio language, that you type, and it provides suggestions based on what you type.
2. Is Gi	tHub Copilot Free? *
$\bigcirc$	Yes, it's free for everyone.
	No, it's a service you can sign up for that's free for students to use but currently costs 10 dollars per month.
	✓ GitHub Copilot is free for verified students, teachers, and maintainers of popular open-source projects.
$\bigcirc$	It's not free, even if you're a student or a teacher.
3. How	can you accept GitHub Copilot's suggestions? *
$\bigcirc$	Press the Tab key.
	Copilot offers you a suggestion, which appears as grey code if you use black as your text color. To accept the suggestion, you need to press the τab key.
$\bigcirc$	Press the F1 key.
$\bigcirc$	Press the F4 key.
4. Iden	tify which statement is valid and select the correct answer: *
$\bigcirc$	A prompt, which is our output, is a collection of songs that tells our copilot what to generate.
	A prompt, which is our input, is a collection of instructions or guidelines that tell our copilot what to generate.
	A prompt is crucial in eliciting specific responses from Copilot. The prompt might be a comment that steers Copilot to generate code on your behalf or writing code that Copilot autocompletes.
$\bigcirc$	A prompt, which is our document, is a collection of laptops that tells our Copilot what to generate.
5. Wha	at does the quality of the output from GitHub Copilot depend on? *
$\bigcirc$	Your code editor.
$\bigcirc$	How well your extensions were installed.
	How well you crafted your prompt.
	✓ Designing an effective prompt is therefore crucial in ensuring we achieve our desired outcomes. You need to detail your

Check your answers

prompt as much as possible.

# Knowledge check

5 minutes

0	GitHub Copilot is an Al pair programmer that you can use to get code suggestions.
	✓ GitHub Copilot is an Al pair programmer that you can use to get suggestions for whole lines or entire functions right insic your editor.
$\bigcirc$	GitHub Copilot is OpenAl Codex, a new Al system created by OpenAl.
	GitHub Copilot is a JavaScript public repository and is one of the best supported languages.
$\bigcirc$	GitHub Copilot can write a comment describing logic and you can add your suggested code to implement the solution.
Wha	at are the supported integrated development environment extensions for GitHub Copilot? *
	Visual Studio Code and Visual Studio
	GitHub.com, Visual Studio Code, Visual Studio, Neovim, and JetBrains
. Wha	Visual Studio Code, Visual Studio, Neovim, and JetBrains  ✓ Correct! All of the IDEs listed have supported GitHub extensions.  at is the difference between GitHub Copilot Business and GitHub Copilot Enterprise? *
Wha	✓ Correct! All of the IDEs listed have supported GitHub extensions.  at is the difference between GitHub Copilot Business and GitHub Copilot Enterprise? *  GitHub Copilot Enterprise has code completions, while GitHub Copilot Business does not.
. Wha	✓ Correct! All of the IDEs listed have supported GitHub extensions.  at is the difference between GitHub Copilot Business and GitHub Copilot Enterprise? *
. Wha	Correct! All of the IDEs listed have supported GitHub extensions.  at is the difference between GitHub Copilot Business and GitHub Copilot Enterprise? *  GitHub Copilot Enterprise has code completions, while GitHub Copilot Business does not.  GitHub Copilot Enterprise has chat in IDE and mobile, while GitHub Copilot Business does not.  GitHub Copilot Enterprise has an extra layer of personalization, with organization utilizing their own codebase to train GitHub
. Who	✓ Correct! All of the IDEs listed have supported GitHub extensions.  at is the difference between GitHub Copilot Business and GitHub Copilot Enterprise? *  GitHub Copilot Enterprise has code completions, while GitHub Copilot Business does not.  GitHub Copilot Enterprise has chat in IDE and mobile, while GitHub Copilot Business does not.  GitHub Copilot Enterprise has an extra layer of personalization, with organization utilizing their own codebase to train GitHub Copilot.  ✓ Correct! GitHub Copilot Enterprise allows organizations to have a smarter more tailored experience by utilizing their own

# Knowledge check

3 minutes

Continue >

Choose the best response for each question, then select **Check your answers**.

	ch of the following choices best describes the relationship between <i>open source</i> and <i>InnerSource</i> programs? *
	Anyone can offer a contribution to an open source program, whereas InnerSource programs only accept contributions from members of the team that owns the repository.
$\bigcirc$	InnerSource programs are forked from open source programs by organizations that only use and maintain them privately moving forward.
0	InnerSource programs are fundamentally the same as open source programs, except that their access is limited to people within their organization.
	✓ InnerSource offers all of the benefits of traditional open source patterns, but to a limited audience in order to protect intellectual property.
	pose your team has been receiving some low-quality bug reports without enough information to properly diagnose. Which of the ing choices is the best way to address the issue? *
$\bigcirc$	Use GitHub Script to add a workflow action that automatically rejects any issues with a description fewer than 200 characters long.
	Add an ISSUE_TEMPLATE.md file that includes fields for reproduction steps, system properties, and instructions for generating and including important logs.
	✓ This file will ensure that anyone filing a bug knows what's expected of them at the moment they're writing the report.
	Add a CONTRIBUTING.md file that clearly explains what's expected in bug reports, such as reproduction steps, system properties, and instructions for generating and including important logs.
	pose your team has been tracking data of all kinds since your InnerSource program went live three months ago. Which of the ing metrics indicates your program is a great success? *
	A dramatic rise in pull requests that address bugs in your software.
	✓ This metric indicates that more people are motivated to improve the quality of your software and are making the investment themselves.
	A growing rate of bug reports that are quickly closed because they cannot be reproduced.
	A steady decline in new issues.
	X A decline in new issues may be an indication that users are satisfied with your software, or it could mean that they have low confidence that reporting issues and requesting features will produce progress. This metric alone is not enough to infer success.

# Knowledge check

3 minutes

Choose the best response for each question, then select **Check your answers**.

	Other than being located in different parts of the user interface, they are otherwise the same.
	They support different filter syntax options.
0	The top-level search bar supports searching everything across all of GitHub, whereas the repository tab searches are scoped to cover specific types in the current repository.
	✓ The top-level search allows the most flexibility, whereas the scoped tab searches provide popular filter dropdowns for easier refinement.
Wha	at does git blame do?*
	It creates a bug assigned to the last person who committed changes to the specified file.
$\overline{\bigcirc}$	
	✓ Despite the accusatory name, git blame is just a command to display commit history. It reverts the effects of a git praise command. pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following
Sup	✓ Despite the accusatory name, git blame is just a command to display commit history.  It reverts the effects of a git praise command.  pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following is is not a cross-linking best practice? *
Supportion	✓ Despite the accusatory name, git blame is just a command to display commit history.  It reverts the effects of a git praise command.  pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following
Supportion	Despite the accusatory name, git blame is just a command to display commit history.  It reverts the effects of a git praise command.  pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following is is not a cross-linking best practice? *  Do not create cross-links when the root cause of the issue is already known.
Supption	✓ Despite the accusatory name, git blame is just a command to display commit history.  It reverts the effects of a git praise command.  pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following is is not a cross-linking best practice? *  Do not create cross-links when the root cause of the issue is already known.  ✓ It's a good practice to always add cross-links in case you or someone else needs the context later on.
. Supption	✓ Despite the accusatory name, git blame is just a command to display commit history.  It reverts the effects of a git praise command.  pose a bug issue is reported on your project, and you know which pull request introduced the problem. Which of the following is is not a cross-linking best practice? *  Do not create cross-links when the root cause of the issue is already known.  ✓ It's a good practice to always add cross-links in case you or someone else needs the context later on.  Add a comment to the bug report that includes the pull request's author by using an @mention.

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# Knowledge check

3 minutes

Choose the best response for each question, then select **Check your answers**.

	*Hello, *world*!*
	**Hello, *world*!**
	***Hello, world!***
	✓ Correct. Remember that you can also use underscores (_) instead of asterisks if you prefer.
	### Hello, world!
2. Hov	do you print certain characters, like asterisks (*) and underscores (_), literally on your output? *
	Use three in a row, like *** or
	Escape them with a backslash, like \* or \
	✓ Correct. You can also escape other reserved characters, including { and #, using backslashes.
$\bigcirc$	✓ Correct. You can also escape other reserved characters, including { and #, using backslashes.  Unfortunately, this isn't supported at this time.
	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render
it. Wh	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *
it. Wh	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *  Just add the HTML inline.  Correct. Markdown isn't a complete replacement for HTML. You might need to add HTML to get the final results you're looking
it. Wh	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *  Just add the HTML inline.  Correct. Markdown isn't a complete replacement for HTML. You might need to add HTML to get the final results you're looking for.
it. Wh	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *  Just add the HTML inline.  Correct. Markdown isn't a complete replacement for HTML. You might need to add HTML to get the final results you're looking for.  Cut the content. If it's not supported in Markdown, then it's probably not worth including.
it. Wh	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *  Just add the HTML inline.  Correct. Markdown isn't a complete replacement for HTML. You might need to add HTML to get the final results you're looking for.  Cut the content. If it's not supported in Markdown, then it's probably not worth including.  Open an issue that requests Markdown support for your specialized scenario.
it. Who	Unfortunately, this isn't supported at this time.  pose there's an HTML snippet that you want to include on your GitHub Pages web site, but Markdown doesn't offer a way to render at should you do? *  Just add the HTML inline.  Correct. Markdown isn't a complete replacement for HTML. You might need to add HTML to get the final results you're looking for.  Cut the content. If it's not supported in Markdown, then it's probably not worth including.  Open an issue that requests Markdown support for your specialized scenario.

### Knowledge check

4 minutes

### Contribute to an open-source project using GitHub

1. Wha	t is the best place on a GitHub repository to find where you can help a project? *
	The README file
	The issues list
	✓ Correct. Existing issues with the project are listed here. They're also labeled according to help needed.
	The search bar
	The LICENSE file
2. Wha	t is the preferred way to ask for help or reviews on a pull request? *
	Send a negative or disrespectful comment to the project's maintainers via social media.
	Create an issue
	Add comment in the pull request
	✓ Correct. You can either directly request a review or add a comment to your pull request to discuss anything about it.
	Send an email to a random committer on the project
3. Wha	t is needed before you can create a pull request on GitHub? *
	Send a patch file to maintainers via email
	Clone a repo, commit changes, and force push
	Get accepted as a team member
	Fork a repo, clone it, commit changes, and push to your fork
	Correct. While you can clone any public GitHub repository, by default you don't have the right to push any modifications. Fork the repository to create your own copy first.
Next	: unit: Summary
Cont	inue >

# Knowledge check

3 minutes

	Project name
	✓ The name of a GitHub Project is the only descriptor that automatically saves.
	Project description
	Project README
2. Wha	at does an iteration field help you do in Projects? *
	Allows you to keep track of the various changes made to an issue or pull request.
	Allows you to reverse the changes you made to your Project.
	Allows you to create sequential phases of your project and group issues and pull requests based on the phase.
	✓ An iteration field helps you and your team organize your Project into different phases. The value of the field allows you to prioritize what comes first. Setting priorities allows you to implement timelines to keep you on track and accomplish your goals.
3. Wha	at field can you use in order to make a Priority grouping like High, Medium, and Low in your Project? *
	Date
	Single select
	Single select  ✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.
	✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize
$\bigcirc$	The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.
$\bigcirc$	✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.  Iteration field
$\bigcirc$	✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.  Iteration field  at is the easiest way to add automation to your Project? *  Output  Description:    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.    The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize you organize and prioritize you organize and priority grouping in order to help you organize and priority grouping in order to help you organize and priority group you organize
4. Wha	✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project. Iteration field at is the easiest way to add automation to your Project? * GraphQL API
4. Wha	✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project. Iteration field at is the easiest way to add automation to your Project? * GraphQL API Built-in Automation
4. Wha	<ul> <li>✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.     Iteration field     </li> <li>at is the easiest way to add automation to your Project? *</li> <li>GraphQL API</li> <li>Built-in Automation</li> <li>✓ Built-in automation built within Projects allows you a simple way to automate your Project.</li> </ul>
4. Wha	<ul> <li>✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.     Iteration field     </li> <li>at is the easiest way to add automation to your Project? *</li> <li>GraphQL API</li> <li>Built-in Automation</li> <li>✓ Built-in automation built within Projects allows you a simple way to automate your Project.</li> <li>GitHub Actions</li> </ul>
4. Wha	<ul> <li>✓ The Single select field allows you to create multiple groups like Priority grouping in order to help you organize and prioritize your Project.     Iteration field     </li> <li>at is the easiest way to add automation to your Project? *</li> <li>GraphQL API</li> <li>Built-in Automation</li> <li>✓ Built-in automation built within Projects allows you a simple way to automate your Project.</li> <li>GitHub Actions</li> <li>at is the name of the section where you can change the visibility of your Project, close your Project, or delete your Project? *</li> </ul>

# Knowledge check

3 minutes

Choose the best response for each question, then select **Check your answers**.

$\bigcirc$	You would like to receive feedback on prospective changes before merging your feature branch into main.
	You want to merge your bug fix branch into main, but don't have permission.
$\bigcirc$	Your branch can't be merged into main due to upstream changes made since you created it. Creating a pull request lets the other contributor know they need to pull their changes out so you can put yours in.
	✓ This isn't how pull requests work. Also, the etiquette is for you to be sure your branch can be cleanly merged into the base before creating a pull request.
How	can you ensure that pull requests for a given area of the repository aren't merged unless certain users or teams approve? *
	Clearly explain the pull request policy in CONTRIBUTING.md.
	Use a CODEOWNERS file and enable required reviews.
	Use a CODEOWNERS file and enable required reviews.  ✓ A CODEOWNERS file enables you to assign users or teams as required reviewers using the same syntax as .gitingore files.
	·
O You'	✓ A CODEOWNERS file enables you to assign users or teams as required reviewers using the same syntax as .gitingore files.  Add a table mapping directory paths to required users in SECURITY.md.
You'	✓ A CODEOWNERS file enables you to assign users or teams as required reviewers using the same syntax as .gitingore files.  Add a table mapping directory paths to required users in SECURITY.md.  ve been requested to review a pull request. As you read through it, you notice several minor coding errors and typos. How should the review? *  Start a review and fix obvious typos inline. Add comments in places that require further discussion or offer educational value.
You'	A CODEOWNERS file enables you to assign users or teams as required reviewers using the same syntax as .gitingore files.  Add a table mapping directory paths to required users in SECURITY.md.  ve been requested to review a pull request. As you read through it, you notice several minor coding errors and typos. How should the review? *  Start a review and fix obvious typos inline. Add comments in places that require further discussion or offer educational value. Complete the review with changes requested.
You'	<ul> <li>✓ A CODEOWNERS file enables you to assign users or teams as required reviewers using the same syntax as .gitingore files.         Add a table mapping directory paths to required users in SECURITY.md.     </li> <li>ve been requested to review a pull request. As you read through it, you notice several minor coding errors and typos. How should the review? *</li> <li>Start a review and fix obvious typos inline. Add comments in places that require further discussion or offer educational value. Complete the review with changes requested.</li> <li>✓ Contributors always appreciate when reviewers show an interest in getting their code merged.</li> <li>Leave single comments for each issue you come across, but don't change the code. For typos, include the correct spelling of</li> </ul>

# Knowledge check

3 minutes

Choose the best response for each question, then select **Check your answers**.

1. Wha	t's the best way to make sure you're integrating the most secure versions of your project dependencies? *
	Configure your package files to always use the latest versions of dependencies.
	Check each project's security details closely before adding it to your dependencies by confirming its version status across multiple advisory sites.
	Enable <b>Dependabot</b> for your repository.
	Dependabot scans your repository's dependency manifests and notifies you via pull request whenever a version you rely is marked as insecure.
	pose one of your source projects relies on secrets kept in a folder called .secrets. You would like to make sure that the files kept in der on development machines aren't inadvertently committed to the repository. Which of these files best helps enforce this policy?
	SECURITY.md
	.gitignore
	<ul> <li>.gitignore can be used to help enforce which files are included in commits by tools that respect it. However, the client enforces this policy and doesn't necessarily prevent users from committing files that violate policy.</li> </ul>
	CONTRIBUTING.md
3. Wha	t does secret scanning do? *
	Looks for known secrets or credentials committed within the repository.
	✓ This approach is done to prevent the use of fraudulent behavior and to secure the integrity of any sensitive data.
	Analyzes and finds security vulnerabilities and errors in the code in a GitHub repository.
	Secret scanning uses CodeQL to query your code as data.
	unit: Summary

# Knowledge check

4 minutes

	Organizational accounts are shared accounts, while personal/user accounts are for individuals
	<ul> <li>Correct. Organizations are shared accounts where an unlimited number of people can collaborate across many projects at onc</li> <li>Unlike personal/user accounts, permissions with organization accounts are done at a tiered approach.</li> </ul>
$\bigcirc$	You pay more for organization accounts versus personal/user accounts
$\bigcirc$	They're exactly the same
	Personal/user accounts have more access than organization accounts
2. Wha	at's the best reason to decide to upgrade to the GitHub Enterprise product? *
	Because you want to use GitHub Actions and Codespaces
	Because your VP needs to use GitHub Insights
	Because you want to centrally manage users and repositories across multiple organizations
	✓ Correct. GitHub Enterprise allows you to collect multiple organizations together for central management.
	Because you want to use the team pull request reviewers feature.
3. Wha	at's the purpose of a team? *
	A team allows you to manage an organization account
	A team allows you to control permission levels for an enterprise
	A team allows a single user to sign in using different accounts credentials
	A team is intended to reflect a company or group's structure. It's used to provide cascading access permissions and make it easy to notify all team members via mentions
	✓ Correct.
4. Wha	at's a function you can execute on GitHub Mobile? *
	Check out branches with pull requests and view CI statuses
	X Incorrect. You can't do this on GitHub Mobile, but you can on GitHub Desktop.
$\bigcirc$	Compare changed images
	Add and clone repositories

# Knowledge check

3 minutes

Choose the best response for each question, then select **Check your answers**.

	Send an email to a project owner.
	I don't bother reporting software bugs because there's no transparency and they never get fixed anyway.
	Search for the bug in the project's existing issues and create a new one if it hasn't been reported yet.
	✓ A project's issues are visible to anyone who has access to the project, so you might find a resolution is already planned or available. Otherwise, you can create and track the issue yourself.
	pose you created a bug fix on a new branch and want it to become part of the next production build generated from the main. What should you do next? *
	Copy your branch changes and commit them directly to the main branch.
	Create a pull request to merge your new branch into the main branch.
	✓ Pull requests are the correct way to communicate that commits are ready for review and ultimate inclusion on the main brane
)	On second thought, maybe I won't share this fix. I'll just put it in my own private version of the source code.
	On second thought, maybe I won't share this fix. I'll just put it in my own private version of the source code.  X You should reconsider offering your contribution to the original project. By getting your bug fix merged into the main branch you'll benefit from it being automatically included in future builds.  Pose you'd like to work with a project on GitHub, but you don't have write access to the project. What can you do to contribute?  Fork the project's repository to your GitHub account, clone the forked repository to your local machine, push changes to your
upi	X You should reconsider offering your contribution to the original project. By getting your bug fix merged into the main branch you'll benefit from it being automatically included in future builds.
upi	On second thought, maybe I won't share this fix. I'll just put it in my own private version of the source code.  X You should reconsider offering your contribution to the original project. By getting your bug fix merged into the main branch you'll benefit from it being automatically included in future builds.  Pose you'd like to work with a project on GitHub, but you don't have write access to the project. What can you do to contribute?  Fork the project's repository to your GitHub account, clone the forked repository to your local machine, push changes to your repository, and submit a pull request to the target (upstream) repository.  ✓ GitHub provides forking functionality designed to allow you to work with projects where you aren't an owner or don't have write access. Forking makes a remote copy of the project in your repository that you can then clone locally. To submit update
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# Knowledge check

5 minutes

	Deleting earlier versions of a project or file, so you know you are working only with the most current file or data.
	X Incorrect. Version control systems purposefully retain earlier versions of a file or project, so you can access them, if needed.
	Making experimental changes to your project in an isolated branch.
	✓ Correct! Using branches to create different sets of changes to a project is a key use case for version control.
	Gathering feature requirements for a large project and communicating them to stakeholders.
Wha	at is another name for a version control system? *
	Version management software (VMS)
	Software control management (SCM) system
	Software configuration management (SCM) system
VVII	at's the difference between Git and GitHub? *
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#### **Basic Git commands**

10 minutes

Git works by remembering the changes to your files as if it's taking snapshots of your file system.

We'll cover a few basic commands to start tracking files in your repo. Then, you'll save your first "snapshot" for Git to compare against.

#### git status

The first and most commonly used Git command is git status. You've already used it once, in the preceding exercise, to see that you had initialized your Git repo properly.

git status displays the state of the working tree (and of the staging area—we'll talk more about the staging area soon). It lets you see which changes are currently being tracked by Git, so you can decide whether you want to ask Git to take another snapshot.

#### git add

git add is the command you use to tell Git to start keeping track of changes in certain files.

The technical term is *staging* these changes. You'll use git add to stage changes to prepare for a commit. All changes in files that have been added but not yet committed are stored in the *staging area*.

#### git commit

After you've staged some changes for commit, you can save your work to a snapshot by invoking the git commit command.

Commit is both a verb and a noun. It has essentially the same meaning as when you commit to a plan or commit a change to a database. As a verb, committing changes means you put a copy (of the file, directory, or other "stuff") in the repository as a new version. As a noun, a commit is the small chunk of data that gives the changes you committed a unique identity. The data that's saved in a commit includes the author's name and e-mail address, the date, comments about what you did (and why), an optional digital signature, and the unique identifier of the preceding commit.

#### git log

The git log command allows you to see information about previous commits. Each commit has a message attached to it (a commit message), and the git log command prints information about the most recent commits, like their time stamp, the author, and a commit message. This command helps you keep track of what you've been doing and what changes have been saved.

#### git help

You've already tried out the git help command, but it's worth reminding you about. Use this command to easily get information about all the commands you've learned so far, and more.

Remember, each command comes with its *own* help page, too. You can find these help pages by typing git <command> --help. For example, git commit --help brings up a page that tells you more about the git commit command and how to use it.

#### Next unit: Knowledge check

Continue >