

Hands-on Lab: Managing Browser Security and Privacy Settings



Estimated time needed: **15 minutes**

About This Lab

This lab introduces how to Manage, Google Chrome browser security and privacy settings as a part of managing applications within a Windows operating system.

Objectives

In this hands-on lab, you will:

- Identify how to perform a safety check in a Google Chrome browser
- Identify options for clearing Google Chrome browsing data
- Identify how to check and clear Google Chrome browsing history
- Identify and configure settings in Google Chrome browser for privacy and security

Important Notices about This Lab

About Lab Sessions

Lab sessions are not persisted. This means that every time you connect to this lab, a new environment is created for you. Any data or files you saved in a previous session are no longer available. To avoid losing your data, plan to complete these tasks in a single session.

About the Lab Instructions and Solutions

In case you try to use your physical keyboard in the lab environment, it might not produce any visible results. To avoid this issue, please use the On-Screen Keyboard (you can find it by searching for "On-Screen Keyboard" in the search bar at the bottom of your screen). If search functionality doesn't work, you can also click on the Windows icon, scroll down to find Windows Ease of Access, click on it, and then select On-Screen Keyboard.

Microsoft Windows operating system features can vary based on the Windows edition. If completing these exercises on your machine, your navigation and solutions may differ from what's presented in this lab.

Exercise 1: Identify How to Perform a Safety Check within a Google

Chrome Browser

In this lab, you'll become familiar with Google Chrome browser privacy and security settings including conducting a safety check, clearing browsing data, and configuring privacy and security settings.

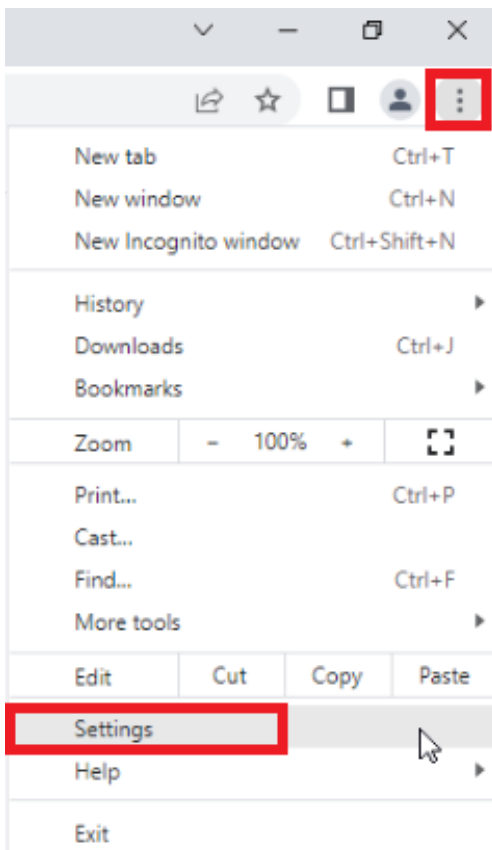
Let's begin with conducting a safety check with the Google Chrome browser.

Note: Google Chrome's safety check confirms a browser's overall security and privacy including checking if any saved passwords have been compromised, identifying any dangerous extensions, and ensuring security protections are updated.

1. On the Desktop, search for the **Google Chrome browser** and double-click the application to open.



2. Next, you will go to the browser **Setting**, at the top-right of the application, click the **three** dots, and then click **Settings**.



3. Then, select the **Privacy and security** option under settings, the privacy and security settings will now be displayed.



Settings



You and Google



Autofill



Privacy and security



Appearance



Search engine



Default browser



On startup

4. Select the **Check now** option under the Safety check section to complete the safety check.

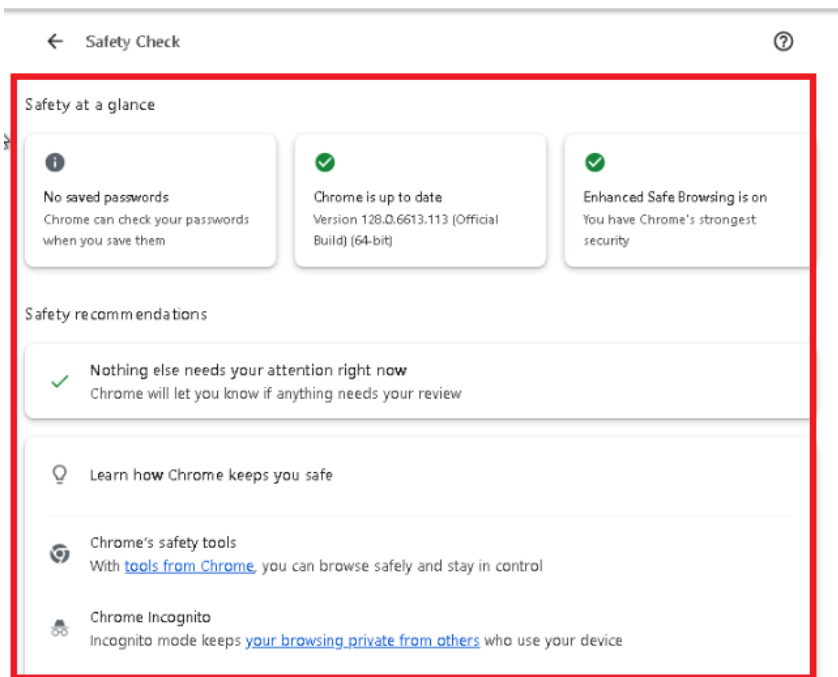
Safety Check



Chrome regularly checks to make sure your browser has the safest settings. We'll let you know if anything needs your review.

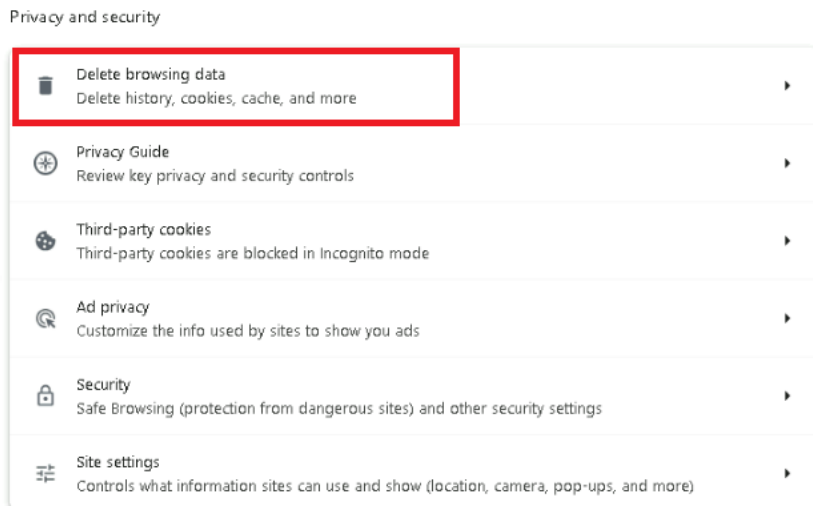
[Go to Safety Check](#)

5. Once the safety check completes, you notice the following checks displayed:
- Updates: *Checks to see if the browser is updated with the current version.*
 - Password: *Checks to see if any saved passwords have been compromised.*
 - Safe Browsing: *Confirms the overall security and privacy of a browser.*

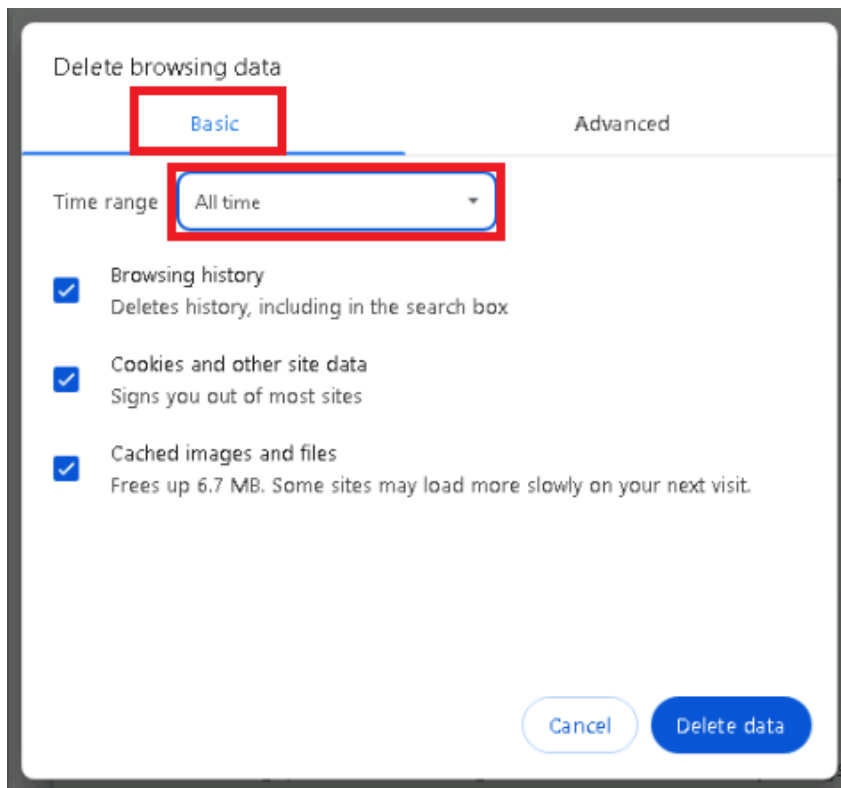


Exercise 2: Identify Options for Clearing Google Chrome Browsing Data

1. Continue with Google Chrome, go to **Settings**, select **Privacy and security**, and select **Delete browsing data**.

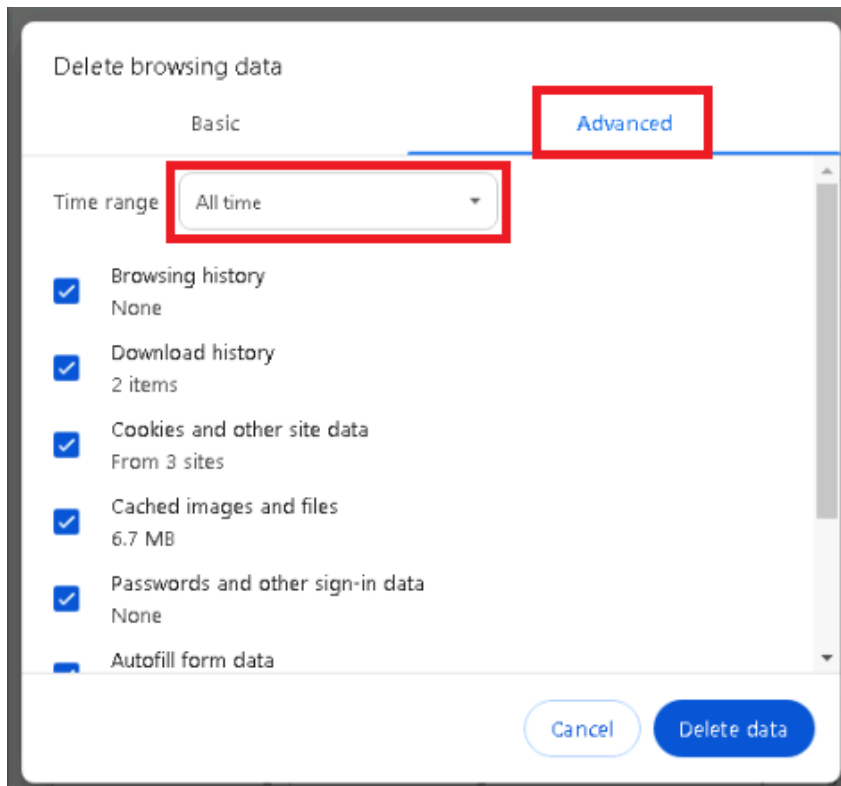


2. Next, you will review Basic and Advanced clearing browsing data options. First, let's review the **Basic** clearing browsing data option. This will clear the browsing history, cookies and other site data, and cached images and files.
 - *Browsing history*: Clears browsing history and deletes web addresses visited.
 - *Cookies and other site data*: the files created by websites used to make online experience easier due to saving the information used.
 - *Cached images and files*: The text and images from pages you've visited are removed.



3. Next, review the **Advanced** option. This option will clear all the basic options and more: clear browsing history, download history, cookies and other site data, Passwords, Autofill form data, and cached images and files.

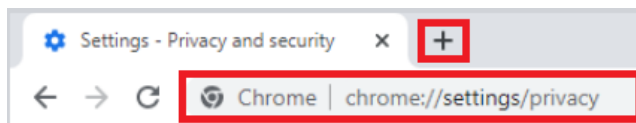
- Download history: Files downloaded using Chrome are cleared.
- Passwords: Passwords saved are deleted.
- Autofill form data: Form data entries are deleted.
- **Note:** For the time range, we can select from 24 hours to All time.
 - Clear the browsing data for either the Basic or Advanced options, click **Delete data**.



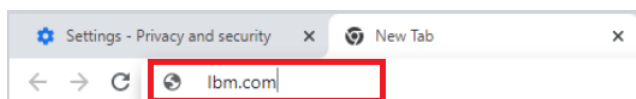
Exercise 3: Identify How to Check and Clear Google Chrome Browsing History

For this exercise, you will generate browser data, and see how to check and clear browsing history.

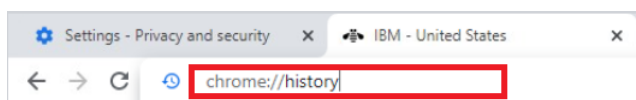
1. First, continue with Google Chrome, go to **Settings**, select **Privacy and security**, select **Delete browsing data**, and then click the **plus** sign.



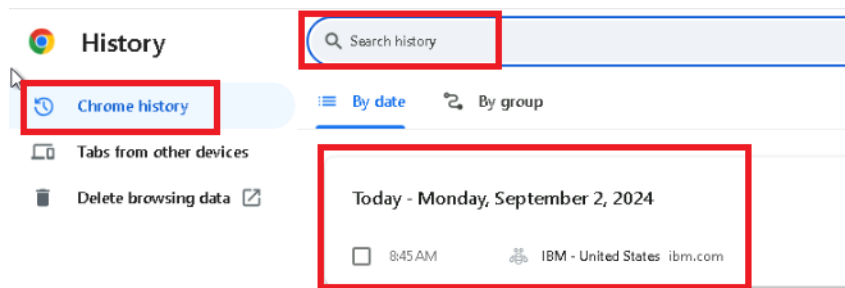
2. Next, in the new browser tab, type **ibm.com**, and press the **Enter** key.



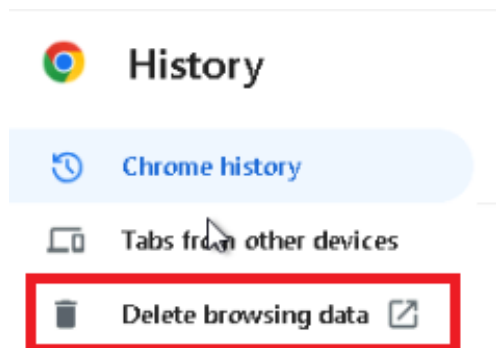
3. Next, you will check the browsing history. Replace the **ibm.com** text with **chrome://history**, and press **Enter**.



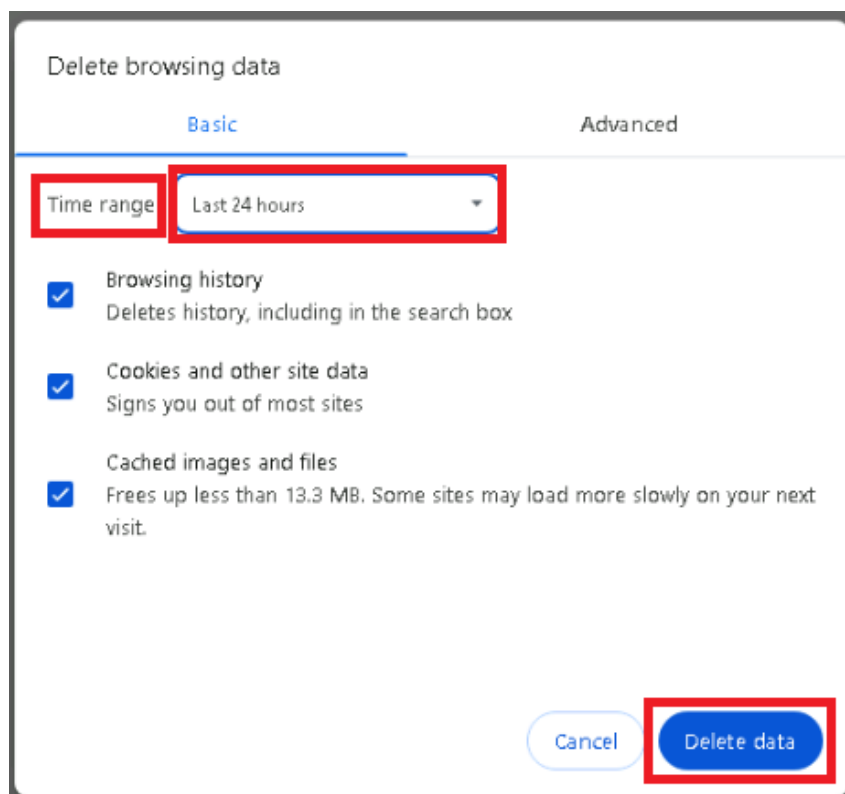
4. You can now view the history. Below, notice you can search history and click **List** to see the browsing history list by the current date and the site visited. For this example, you see the IBM website in history.



5. To clear history, select **Delete browsing data**.



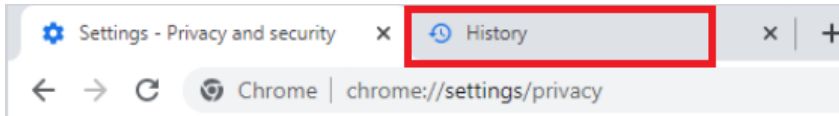
6. Next, for **Time Range**, select **Last 24 hours**, and select **Delete data**.



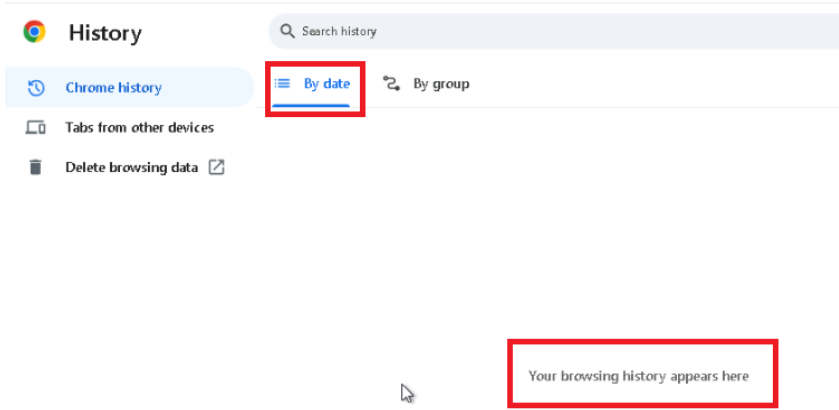
7. Once the history has been cleared, click the **History** tab to view the history.

Note: If the History tab is no longer available, click the **plus** sign to open a new browser tab, type

chrome://history, and then press **Enter**.



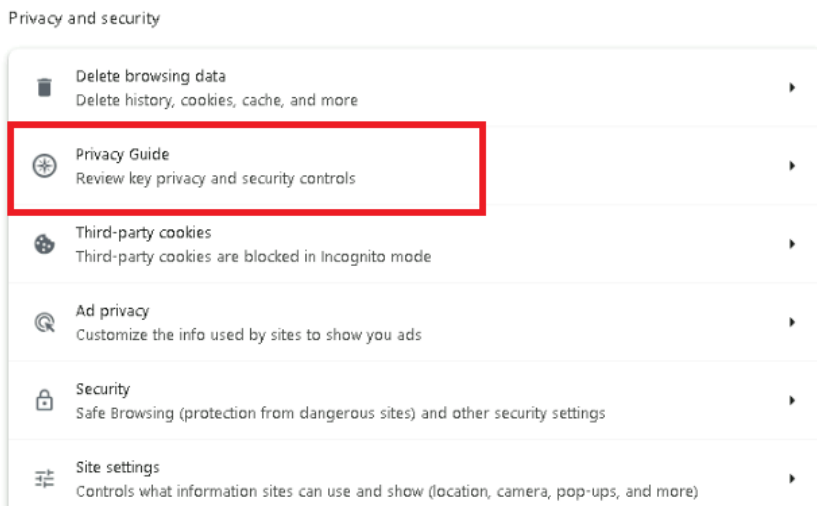
8. Look under **List** and notice that the browsing history has been cleared:



Exercise 4: Identify and Configure Settings in Google Chrome Browser for Privacy and Security

Now you will review how to configure settings in Chrome for privacy using the Privacy Guide. The Privacy Guide provides a tour of key privacy and security controls, which allows users to identify and set up key security options for privacy.

1. Continuing with Google Chrome, go to **Settings**, select **Privacy and security**, and select **Privacy Guide**.



2. In the Privacy Guide window, click **Next** to continue.



A guide of your privacy choices

Take a guided tour of key privacy and security controls. For more options, go to individual settings.

Next

3. Next, you can choose your search and browsing quality. When this feature is on, it makes searches and browsing better.

Note: When the option is turned on, it allows Chrome to anonymously collect data about the sites you visit to improve search experience. The reason this option is good, is that Google uses and protects your data when you use Google services in Chrome.

Turn option **on**, then click **Next**



Choose your search and browsing quality

Make searches and browsing better



When on

- ⚡ You'll browse faster because content is proactively loaded based on your current webpage visit
- 💡 From the address bar, you can open page info to see additional info about the page you're visiting
- 🔖 If you also save your bookmarks in your Google Account, you can track product prices in Chrome and get notified when the price drops

Things to consider

- 🌐 URLs you visit are sent to Google to predict what sites you might visit next and to show you additional info about the page you're visiting
- 🔒 If you also share Chrome usage reports, those reports include the URLs you visit

Back

Next

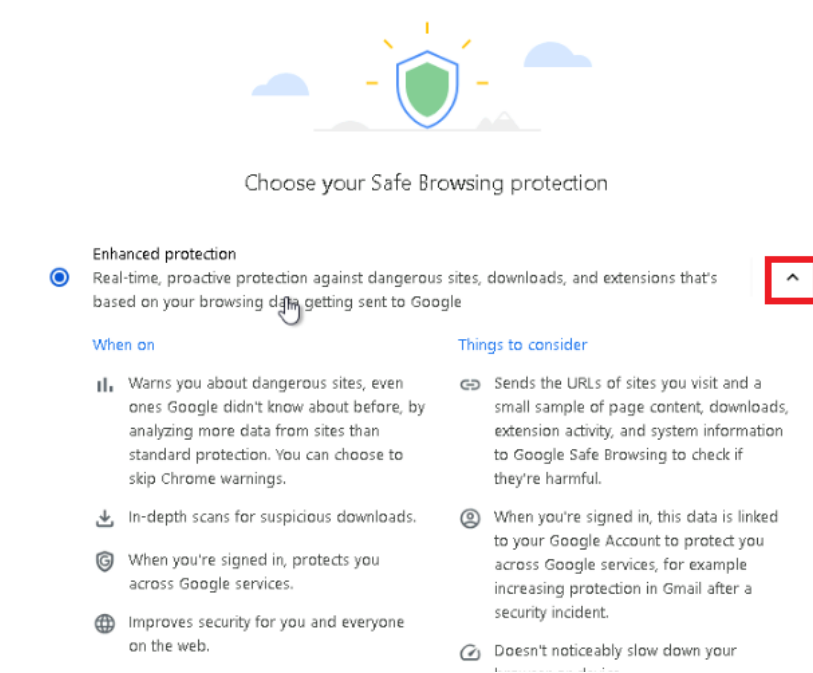
4. Next, choose the Safe Browsing protection option, two modes, either Enhanced protection or Standard protection:

- Enhanced protection vs. Standard protection
 - Enhanced is faster, protects against dangerous websites, and predicts and warns you about

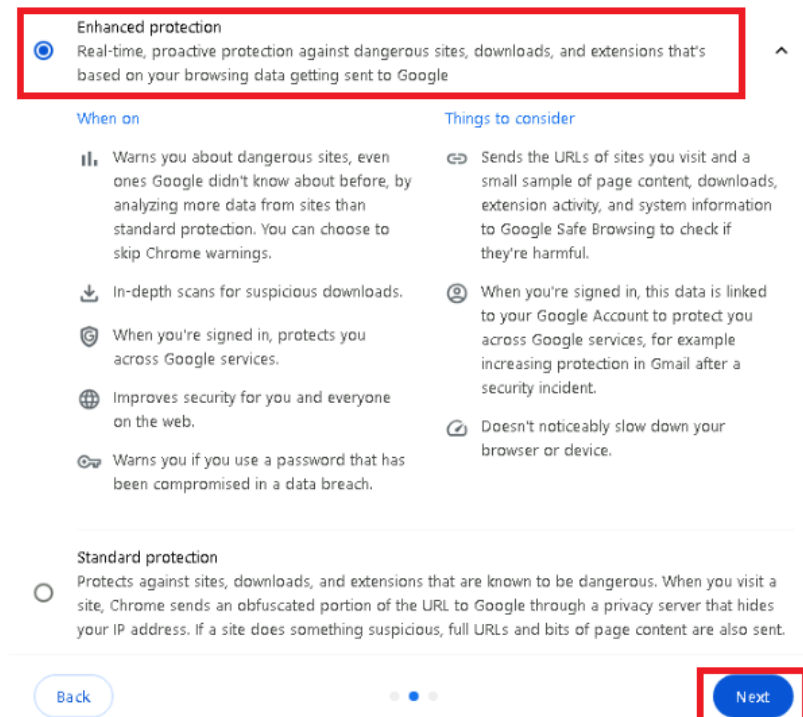
dangerous events before they happen.

- Standard protection provides normal protection and detects and warns you about dangerous events when they happen.

Note: be sure to use the **down arrow** to show the **standard protection** option.

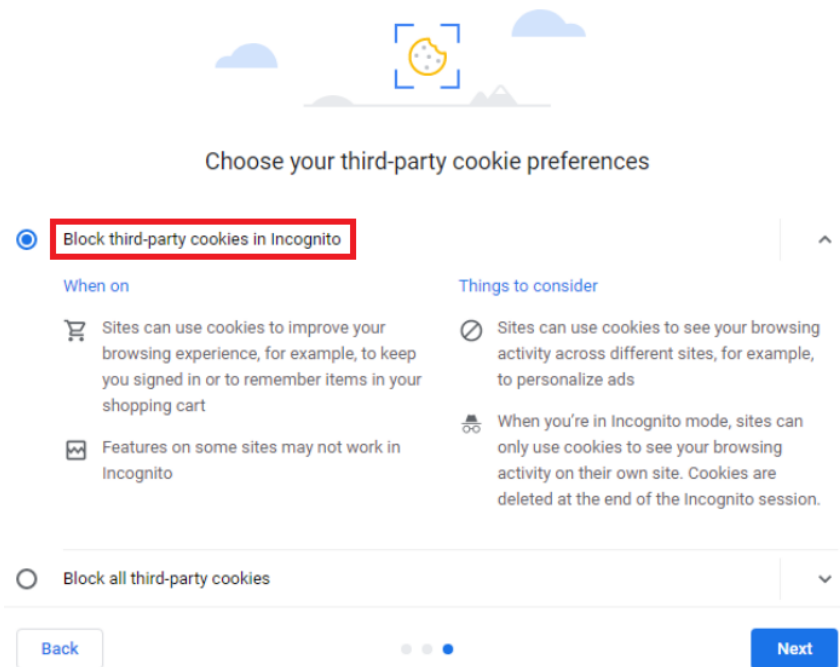


5. After reviewing the options, select **Enhanced protection** and click **Next**.



6. Next, choose third-party cookie preferences, there are two options:



1. Block third-party cookies in Incognito or
2. Block all third-party cookies. The following image shows the Block third-party cookies in Incognito option.





Choose your third-party cookie preferences

☒ **Block third-party cookies in Incognito**

When on

-  Sites can use cookies to improve your browsing experience, for example, to keep you signed in or to remember items in your shopping cart
-  Features on some sites may not work in Incognito

Things to consider

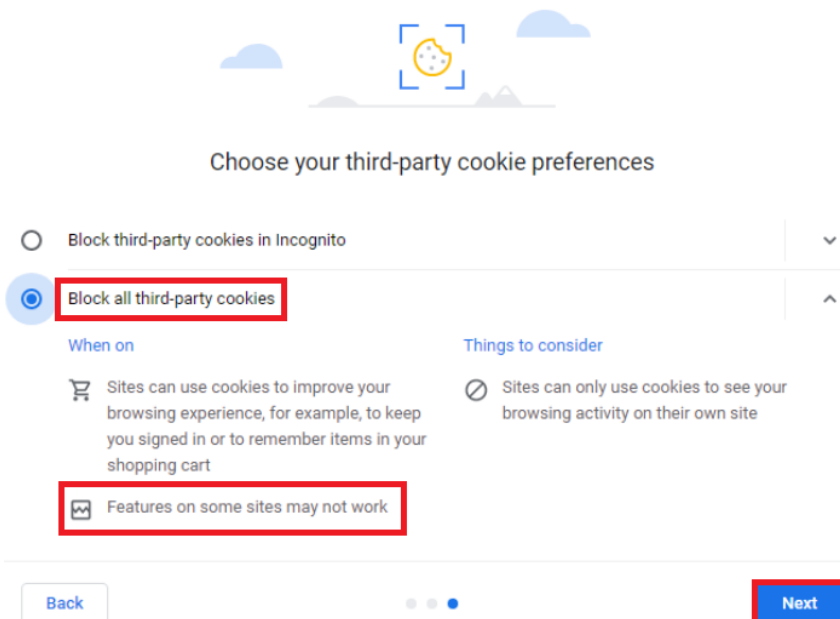
-  Sites can use cookies to see your browsing activity across different sites, for example, to personalize ads
-  When you're in Incognito mode, sites can only use cookies to see your browsing activity on their own site. Cookies are deleted at the end of the Incognito session.

☐ Block all third-party cookies

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Note: When a browser is in Incognito mode, the browsing history is not recorded, but while on the website, the website can only use cookies to see browsing activity on their own site. Also, note that Incognito mode is another name for Private browsing. Other browser applications might refer to Private browsing instead of Incognito.

7. When reviewing the Block all third-party cookies, *note* that some features on some sites may not work. The reason is security because blocking all cookies may cause features not to work since the site uses cookies for the features. Be sure to select **Block all third-party cookies**, then select **Next**.





Choose your third-party cookie preferences


☐ Block third-party cookies in Incognito

☒ **Block all third-party cookies**

When on

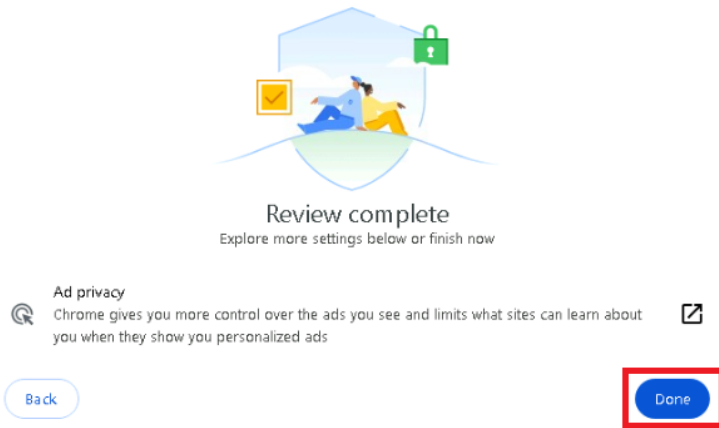
-  Sites can use cookies to improve your browsing experience, for example, to keep you signed in or to remember items in your shopping cart
-  Features on some sites may not work

Things to consider

-  Sites can only use cookies to see your browsing activity on their own site

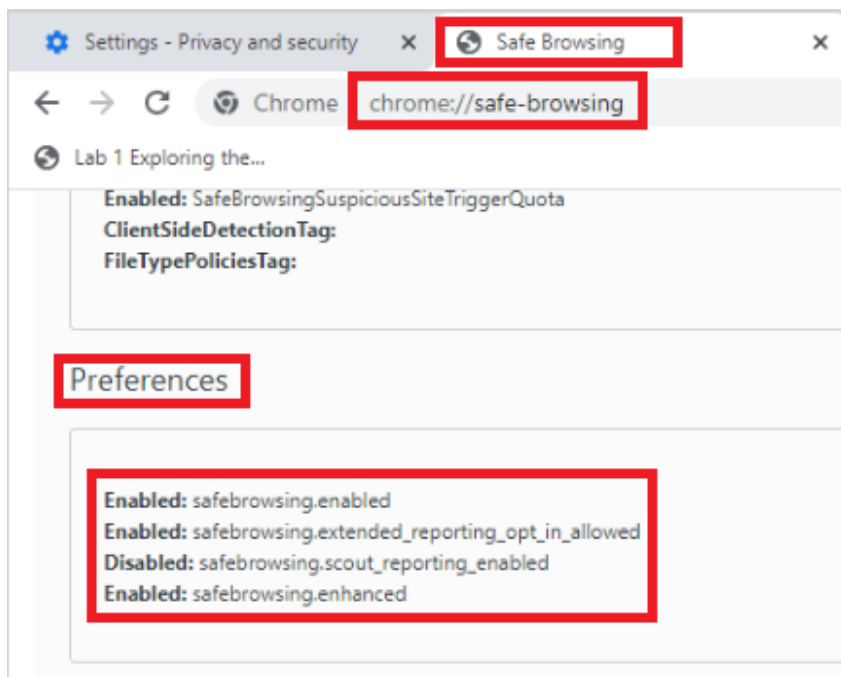
[Back](#) [Next](#)

8. This completes the Privacy Guide review of privacy settings. Next, you will verify that the settings are enabled.



9. Open a **new tab** and visit `Chrome://safe-browsing`.

Once on the site, scroll down to view **Preferences** and notice *safebrowsing.enabled* is enabled along with the other settings completed previously under safe browsing protection.



Practice Exercises

1. Problem: Does Incognito browsing mode in a browser record browsing history?

- ▶ Click here for a hint.
- ▶ Click here for the solution.

2. Problem: How can third-party cookies in Chrome Browser be blocked while in incognito mode?

- ▶ Click here for a hint.
- ▶ Click here for the solution.

Congratulations! You have completed this lab and are ready for the next topic.

Authors

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