Crosslink Discord Bot Documentation

Last Modification: February 10th 2021

What is Crosslink?

Crosslink is a powerful link & file autodetection & automoderation bot;

Designed from the ground up to provide fast, extensive and user friendly automoderation to afford your community a layer of protection hitherto unheard of. It detects and categorises links & files based on several factors, including data from a local database, data provided by 3rd party aggregates including the Google Cloud Platform, and analysis performed by Crosslink. Among these analyses is scam detection for known company domains, redirect resolving and a local and external antivirus for files.

Despite these powerful features, setup of Crosslink is designed to be as straightforward and user-friendly as possible. This documentation will cover the basics to the advanced of configuring Crosslink to fit your community and use-case. It will also document the specifics behind the processes that make Crosslink work for the more tech-savvy readers.

Basic functionality & commands

Crosslink comes with 3 commands, each with a UI system that operates by altering the message the command was triggered with. For example, if the command was **crosslink.config.edit** you would then edit that message (up arrow or right-click then edit on desktop, long press then edit on mobile) to carry out the operation you'd like to execute. Whenever you run a relevant command in edit mode, a list of operations you can edit your message to is shown. The next few sections will detail each command and their operations.

Help/info command | Requires Admin

To get a list of commands, and a link to the bot's site (https://panleyent.com/crosslink) is displayed. To trigger this command, simply ping Crosslink.

Panley | Developer Today at 18:11
@CrossLink

CrossLink BOT Today at 18:11

Looks like you need help getting set up, take a look at my website for a full list of features, commands and FAQ!

https://panleyent.com/crosslink

`crosslink.config.edit` - Edits the serverwide config

`crosslink.config.override` `channel-id | role-id` - Edits the config for a specific role/channel, this overrides the serverwide config

`crosslink.linklist.edit` - Edits serverwide responses for specific entries

crosslink.config.edit | Requires Admin

This is the main serverwide configuration command for Crosslink. At the top, you can see toggleable settings;

🔘 Admin immunity

Enabling this means anyone with the Administrator Discord permission will be immune to any other configuration elements. If a message would normally be deleted but immunity triggers, Crosslink will react according to the category.

🔘 Inherit Discord permissions

This setting applies responses based on the Discord permissions the user posting the link has. If enabled, a user who doesn't have **embed links** permissions in a given channel will have any link they post deleted. A user who doesn't have the **attach files** permission in a given channel will have any link to an image they post deleted. A user who has **attach files** but not **embed links** permission will have any link they post in the given channel deleted.

🔘 Log actions

This setting is rather simple. You pass a channel mention for your chosen channel (e.g. #logs) and crosslink will then log to that channel.

🔘 Notify users

Also rather simple, this toggles whether or not you want users to be informed about their messages being deleted.

🔘 Scam Detection ^BETA

When enabled, this compares links sent against known company domains to find and delete potential scam links. For example, Discrod.com would be seen as a scam of Discord.com. This feature is in beta testing and may trigger false positives on rare occasions.

🔘 Antivirus ^BETA

When enabled, this sends file data taken from attachments or links to files and runs it through an antivirus. This feature is in beta testing and may trigger false positives on rare occasions.

Panley | Developer Today at 18:18
crosslink.config.edit

CrossLink BOT Today at 18:18

Crosslink Configuration
Admin immunity
Inherit Discord permissions Learn more
Log actions: #message-log
Notify users
Scam Detection ^BETA Learn more
Anti-virus ^BETA Learn more

Link categories	Response
Safe	None
Suspicious	None
Unsafe	None
Unknown	None
Invite	🗑 Delete

Image categories	Response
Media	None
Image	None (Inherited)
Gif	None (Inherited)
Video	None (Inherited)
Audio	None (Inherited)
Other	None
Dangerous	None
Virus	🗑 Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
`reset` will return your config to deafult settings (This exits all experiments)
`exit` will exit edit mode
`enable setting-name` turns a setting on
`disable setting-name` turns a setting off
`response category kick | ban | del | none | ignore`
sets the response(s) for the category. Del can be used with Kick or Ban
When you edit a setting, more information will show here to guide you.

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🔗 Link categories

Links detected by Crosslink are assigned to various categories based on data from the local database and data provided by 3rd party aggregates. The categories are as follows*;

Companies

These links belong to known companies that are commonly posted on or implemented into Discord. These are treated the exact same as Safe links but given unique reactions. The list is currently: Discord, Twitch, Twitter, Youtube, Steam, Reddit, Instagram, Amazon & PayPal.

🟢 Safe

These links are known to be safe/reputable, used commonly and are safe for users to visit. Examples include google.com, imgur.com etc.

🟡 Suspicious

These links have intermittent safety issues or provide potentially unethical or harmful services. Commonly among these are http only sites that provide paid services, predatory loan services and content hosts with little or no moderation.

🔴 Unsafe

These links are known to be unsafe, lead to malware, scams or other such dangerous sites. This category cannot be set to Ignore, it must always be at least set to None.

⚫ Unknown

These links are for domains that aren't used enough to have any reputable data on their safety.

💬 Invite

These links are for Discord server/bot invites or aggregates for Discord server invites. If invite data can be found, it'll be sent in logs if logs are enabled, example to the right.

NSFW links in non-NSFW channels are always deleted unless the admin override triggers

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Panley | Developer Today at 18:18
crosslink.config.edit

CrossLink `BOT` Today at 18:18

Crosslink Configuration
⚫ Admin immunity
⚫ Inherit Discord permissions Learn more
🔵 Log actions: #message-log
🔵 Notify users
🔵 Scam Detection ^BETA Learn more
🔵 Anti-virus ^BETA Learn more

Link categories	Response
🟢 **Safe**	None
🟡 **Suspicious**	None
🔴 **Unsafe**	None
⚫ **Unknown**	None
💬 **Invite**	🗑 Delete

Image categories	Response
🖼 **Media**	None
🖼 **Image**	None (Inherited)
`GIF` **Gif**	None (Inherited)
▬ **Video**	None (Inherited)
🔊 **Audio**	None (Inherited)
⬜ **Other**	None
🟨 **Dangerous**	None
🟥 **Virus**	🗑 Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
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sets the response(s) for the category. Del can be used with Kick or Ban
When you edit a setting, more information will show here to guide you.

CrossLink `BOT` Today at 19:18

Message from @Panley | Developer in #crosslink-production was deleted 🗑
Reason: Message contained a Discord invite

`discord.gg/displace`

Invite Data
displace | Vanity invite
Invite code: displace
User count: 950 | 🟢 463 ⚫ 487
641574644578648068 - 689591765958787073
Guild created at 2019-11-06 09:48:35.148000
Verification level: 2

Guild Features
`GIF` animated icon
📢 news
🌐 community
🖥 welcome screen enabled
🖼 banner
🔗 vanity url
🖼 invite splash
🏷 commerce
📊 insights enabled

File Categories

Links to files or attachments detected by Crosslink are categorised according to their format types. If you have the antivirus enabled, only non-media files are scanned by the antivirus. If a media file or media subfile is set to Ignore, a single link to that media filetype will be allowed. This is to allow for custom file hosts like those used in ShareX.

Media

Media files include images, gifs, videos and audio filetypes. Setting a response for this category will have all subcategories inherit it's response unless they have their own response set.

Images

Image files are, rather simply, image filetypes excluding animated images (gifs/apngs)

Gifs

Gifs also include apngs, and will in future cover any new animated image formats.

Videos/Audio

Videos cover audiovisual filetypes, both common and uncommon.

Stickers

Discord stickers. Setting this to Ignore does the same as None.

Dangerous files

Dangerous files are files that can easily be downloaded and executed/run by end users and archive files where the contents are unclear and potentially malicious. They are also reactively updated to RCE or malware threats related to specific filetypes.

Other files

These are files not covered by any of the above categories.

Virus files

These are Dangerous or Other files that are malicious according to the antivirus (if enabled). The response for this category must always be at least set to Del/Delete.

Panley | Developer Today at 18:18
crosslink.config.edit

CrossLink BOT Today at 18:18

Crosslink Configuration
- Admin immunity
- Inherit Discord permissions Learn more
- Log actions: #message-log
- Notify users
- Scam Detection BETA Learn more
- Anti-virus BETA Learn more

Link categories	Response
🟢 Safe	None
🟡 Suspicious	None
🔴 Unsafe	None
⚫ Unknown	None
Invite	🗑 Delete

Image categories	Response
Media	None
Image	None (Inherited)
Gif	None (Inherited)
Video	None (Inherited)
Audio	None (Inherited)
Other	None
Dangerous	None
Virus	🗑 Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
reset will return your config to deafult settings (This exits all experiments)
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Crosslink Discord Bot Documentation

Responses

For each category, a response can be set. The lowest detected link category is responded to if several links are present in one message. The response are detailed below;

None

This will have Crosslink react to the message containing the links according to the category. Crosslink does not react with image categories, only link ones. So an attachment would not get a reaction, only a link.

🗑 Delete/Del

This will have Crosslink delete the offending message and log it or notify the user depending on the settings detailed earlier in the documentation.

👤✖ 🔨 Kick/Ban

This will have Crosslink kick/ban the offending user and log it or notify the user depending on the settings detailed earlier in the documentation.

🚫 Ignore

Crosslink will entirely ignore link categories with this response, but the file categories will only alter a delete response in a link to a none response.

crosslink.config.override | Requires Admin

When carrying out this command, simply pass a valid role or channel ID present in the guild. The command is carried out exactly the same as the above command, but the config is only applied to the channel or role. Roles are prioritised over channels for responses, so if a role is set to ignore a safe link, and a channel to delete it, a user with the configured role who sends a safe link in the configured channel will have their link ignored. Roles are also prioritised according to the server role hierarchy, so the highest role with an override in a users roles has its responses used. You can see a list of overrides in the

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Panley | Developer Today at 18:18
crosslink.config.edit

CrossLink `BOT` Today at 18:18

Crosslink Configuration
⚪ Admin immunity
⚪ Inherit Discord permissions Learn more
🔵 Log actions: #message-log
🔵 Notify users
🔵 Scam Detection ᴮᴱᵀᴬ Learn more
🔵 Anti-virus ᴮᴱᵀᴬ Learn more

Link categories	Response
🟢 Safe	None
🟡 Suspicious	None
🔴 Unsafe	None
⚫ Unknown	None
📧 Invite	🗑 Delete

Image categories	Response
🖼 Media	None
🖼 Image	None (Inherited)
Gif	None (Inherited)
Video	None (Inherited)
🔊 Audio	None (Inherited)
🗔 Other	None
⚠ Dangerous	None
🦠 Virus	🗑 Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
`reset` will return your config to deafult settings (This exits all experiments)
`exit` will exit edit mode
`enable setting-name` turns a setting on
`disable setting-name` turns a setting off
`response category kick | ban | del | none | ignore`
sets the response(s) for the category. Del can be used with Kick or Ban
When you edit a setting, more information will show here to guide you.

Panley | Developer Today at 20:19
crosslink.config.override 775384565224177684

CrossLink `BOT` Today at 20:19

Crosslink Configuration
⚪ Admin immunity
⚪ Inherit Discord permissions Learn more
🔵 Log actions: #message-log
🔵 Notify users
🔵 Scam Detection ᴮᴱᵀᴬ Learn more
🔵 Anti-virus ᴮᴱᵀᴬ Learn more

Link categories	Response
🟢 Safe	None
🟡 Suspicious	None
🔴 Unsafe	None
⚫ Unknown	None
📧 Invite	🗑 Delete

Image categories	Response
🖼 Media	None
🖼 Image	None (Inherited)
Gif	None (Inherited)
Video	None (Inherited)
🔊 Audio	None (Inherited)
🗔 Other	None
⚠ Dangerous	None
🦠 Virus	🗑 Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
`reset` will return your config to deafult settings (This exits all experiments)
`exit` will exit edit mode
`enable setting-name` turns a setting on
`disable setting-name` turns a setting off
`response category kick | ban | del | none | ignore`
sets the response(s) for the category. Del can be used with Kick or Ban
When you edit a setting, more information will show here to guide you.

Additional Information
⚠ **Override mode** ᴮᴱᵀᴬ **for** #crosslink-production ⚠
`override disable` will remove this override and exit edit mode

main config command. To remove an override, enter its configuration and run the **override-disable** operation.

crosslink.linklist.edit | Requires Admin

This command allows you to manually set responses for domains, links and guild ID's for invites. For details on the responses, read the details on the responses for the config command above. Links are prioritised over domains, so if: (https://www.youtube.com/watch?v=dqw4w9wgxcq) was set as a link to be ignored, but the domain (youtube.com) set to be deleted, the link would be ignored. The linklist is applied to resolved links, so a shortlink or redirect to a link in the linklist will be responded to accordingly. Guilds in the linklist will have their invites responded to according to the response in the linklist regardless of any other configurations. The None option is not available in the linklist configuration. The keywords for kick and ban in the linklist configuration are delkick and delban respectively.

Panley | Developer Today at 20:42
crosslink.linklist.edit

CrossLink BOT Today at 20:42

Link override list
This list contains links/domains with set responses seperate from the main config.

Entries	Types	Responses
734193015924588604	guild	Ignore
discord.com	domain	Ignore
https://www.youtube.com/watch?v=dqw4w9wgxcq	link	Delete

Edit Config
To alter your configuration, edit the message that triggered this command.
reset will clear your link list
exit will exit edit mode
addlink link kick | ban | del | ignore
adds a link & response to the list. Del can be used with Kick or Ban
adddomain domain kick | ban | del | ignore
adds a domain & response to the list. Del can be used with Kick or Ban
addguild guild-id kick | ban | del | ignore
adds a guild's invites & response to the list. Del can be used with Kick or Ban
response link | domain | username/handle kick | ban | del | ignore
sets the response for an entry in the list
remove link | domain | username/handle
removes an entry from the list

Recommended Configuration

Large guilds (100,000+ members):

It's recommended for suspicious, unsafe, unknown and invite links to be deleted; safe links to be ignored; Dangerous and Other files to be deleted; Scam detection to be enabled; Actions to be logged to a dedicated channel for Crosslink and Discord permissions to be inherited for easy future setup. If it's normal for users to send non-media files, setting other files to none and enabling the antivirus would suffice.

Medium guilds (1,000 - 99,999 members):

It's recommended for suspicious, unsafe and invite links to be deleted; safe links to be ignored; Dangerous and Other files to be deleted; Scam detection to be enabled; Actions to be logged to a dedicated channel for Crosslink and Discord permissions to be inherited for easy future setup. If it's normal for users to send non-media files, setting other files to none and enabling the antivirus would suffice. Unknown links for personal domains may be more common in guilds of this size, so they may be set to none or even ignore.

Small guilds (1 - 999 members):

It's recommended for suspicious, unsafe and invite links to be deleted; safe & unknown links to be none; Dangerous files to be deleted; Scam detection to be enabled; Actions to be logged to a
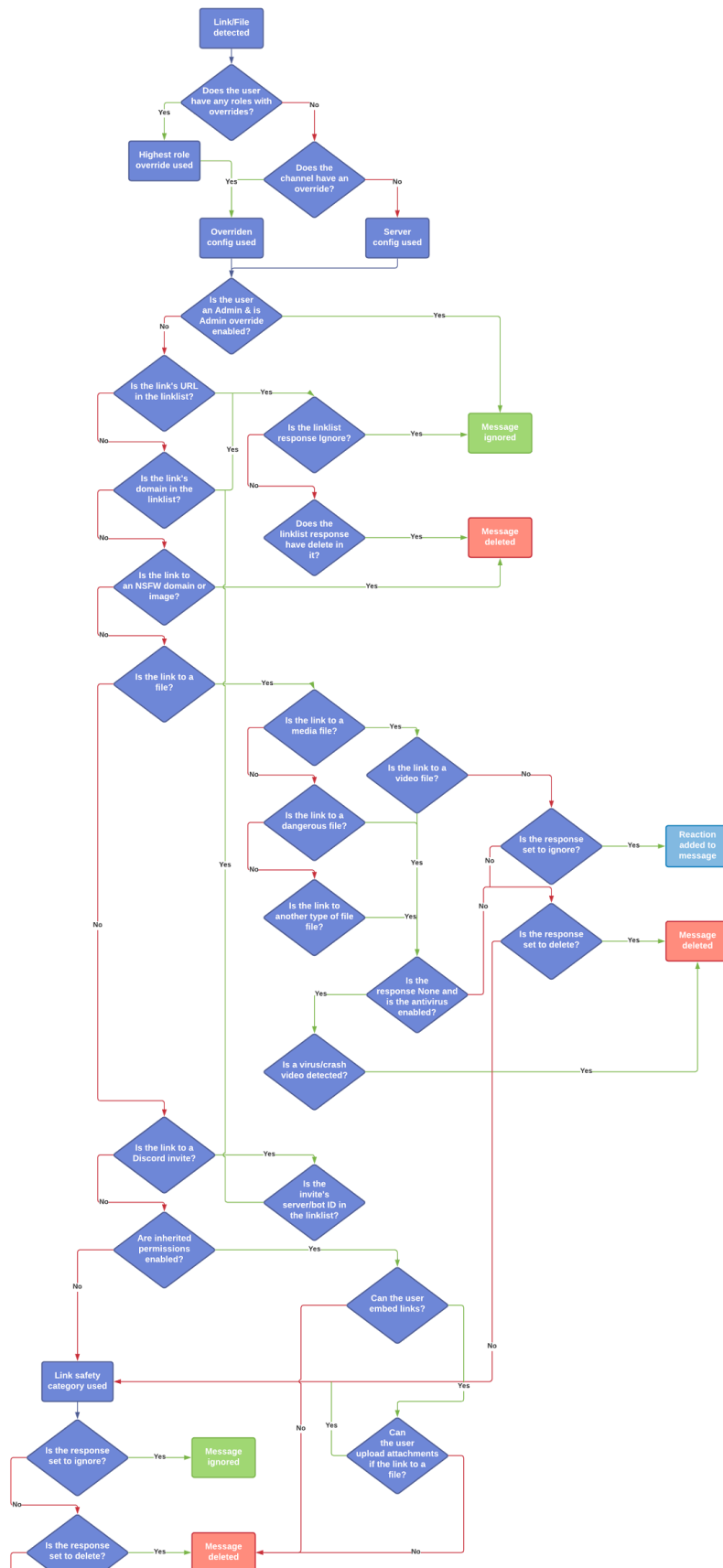
general logging channel and Discord permissions to be inherited for easy future setup. The antivirus should also be enabled.

Crosslink's Response Hierarchy

Link/File detected

Does the user have any roles with overrides? — Yes / No

Highest role override used

Does the channel have an override? — Yes / No

Overriden config used

Server config used

Is the user an Admin & is Admin override enabled? — Yes / No

Is the link's URL in the linklist? — Yes / No

Is the linklist response Ignore? — Yes

Message ignored

Is the link's domain in the linklist? — No / Yes

Does the linklist response have delete in it? — Yes / No

Message deleted

Is the link to an NSFW domain or image? — No / Yes

Is the link to a file? — Yes / No

Is the link to a media file? — Yes / No

Is the link to a video file? — No

Is the link to a dangerous file? — Yes

Is the response set to ignore? — Yes / No

Reaction added to message

Is the link to another type of file file? — Yes

Is the response set to delete? — Yes

Message deleted

Is the response None and is the antivirus enabled? — Yes

Is a virus/crash video detected? — Yes

Is the link to a Discord invite? — Yes / No

Is the invite's server/bot ID in the linklist? — Yes

Are inherited permissions enabled? — No / Yes

Can the user embed links? — No

Link safety category used

Is the response set to ignore? — Yes — Message ignored / No

Can the user upload attachments if the link to a file? — No / Yes

Is the response set to delete? — Yes — Message deleted

Exceptions/notes

You may need to zoom in to 200% to see all aspects of this flowchart. **You can see a link to the full image [here](#).** This does not take into account stickers which are always responded to according to their configured response in the server/override config as relevant. It also does not take into account user entries for the linklist, these are however treated the exact same as URL linklist entries. Scam detection will also delete any detected scam domains and can only be prevented by the domain/link being in an ignore linklist entry or the admin override triggering. Invites that aren't in the linklist are responded to according to their configured response in the server/override config as relevant. If the antivirus is enabled and a virus/crash file isn't detected, the link safety category is used.

Technical Documentation

Soon™