

# WHOIS Lookups & Enterprise Cybersecurity Policies: A Secure Way to Search for Domain Names

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These days, it's unwise to assume that all websites are safe to access. For this reason, security teams typically advise employees against clicking on any links embedded in an email, especially from an unknown sender. This recommendation may even extend to suspicious search results that appear in search engines.

What's more, for most companies, visiting websites that are not related to an employee's work is a violation of established cybersecurity policies and procedures. Most cybersecurity policies include:

- Standard steps for accessing work data and applications remotely
- Rules for encrypting emails
- Instructions on creating and managing passwords
- Rules on using social media
- Guidelines for accessing nonwork-related websites

While this last policy may sound extreme to some, it has become common practice, especially among companies that want to beef up their cybersecurity posture. Their stance is 'Prevention is better than cure'. And keeping employees from visiting potentially dangerous websites is always safer and more cost-effective than dealing with a ransomware attack or data breach.

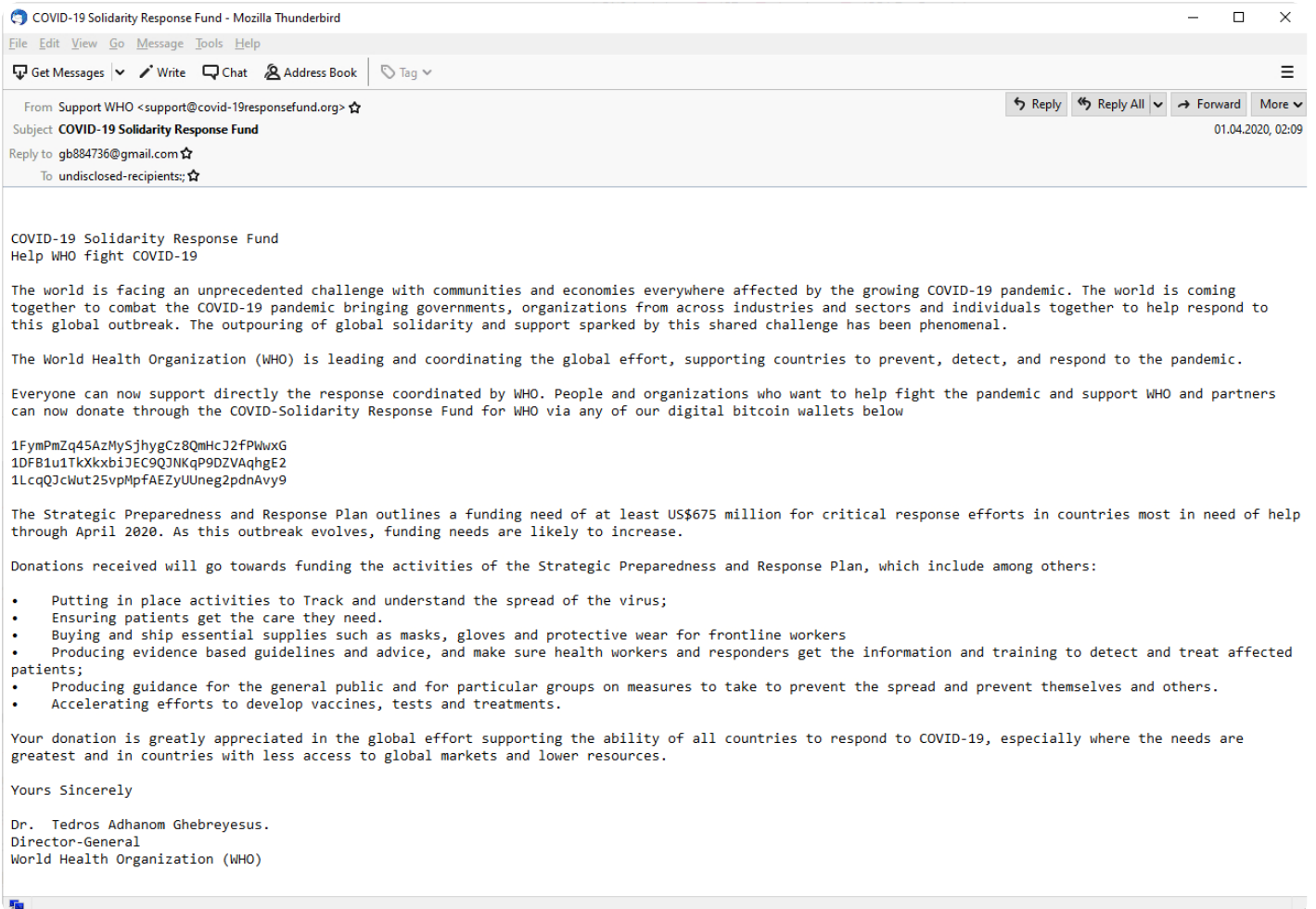
Given this policy, though, how can one search for domain names that might help the business gain more customers? In parallel, how can security operation centers (SOCs) investigate suspicious online activities with domain names possibly involved in an attempt or attack? Thankfully, tools such as [WHOIS Lookup](#) enable SOCs and businesses in general to do extensive research without violating the cybersecurity policies mentioned above.

## **Digging Deeper into Incidents Using WHOIS Lookups**

### **In the Eyes of Cybersecurity Experts**

When a suspicious email or item in a network log turns up, the first course of action for SOCs is to find out more about the email sender or the domain. Let's take as an example the email address [support@covid-19responsefund\[.\]org](mailto:support@covid-19responsefund.org), which attackers have been using to ask recipients for donations on behalf of the World Health Organization (WHO).

The [sample email below](#) asks explicitly for donations in the form of digital currencies. It also supposedly comes from the Director-General of WHO.



The screenshot shows an email in Mozilla Thunderbird. The sender is 'Support WHO <support@covid-19responsefund.org>' and the subject is 'COVID-19 Solidarity Response Fund'. The email content is as follows:

COVID-19 Solidarity Response Fund  
Help WHO fight COVID-19

The world is facing an unprecedented challenge with communities and economies everywhere affected by the growing COVID-19 pandemic. The world is coming together to combat the COVID-19 pandemic bringing governments, organizations from across industries and sectors and individuals together to help respond to this global outbreak. The outpouring of global solidarity and support sparked by this shared challenge has been phenomenal.

The World Health Organization (WHO) is leading and coordinating the global effort, supporting countries to prevent, detect, and respond to the pandemic.

Everyone can now support directly the response coordinated by WHO. People and organizations who want to help fight the pandemic and support WHO and partners can now donate through the COVID-Solidarity Response Fund for WHO via any of our digital bitcoin wallets below

1FymPmZq45AzMySjhygCz8QmHcJ2FPWwxG  
1DFB1u1TkXkxbiJEC9QJNKqP9DZVAqhgE2  
1LcQJcWut25vpMpFAEzyUUneg2pdnAvy9

The Strategic Preparedness and Response Plan outlines a funding need of at least US\$675 million for critical response efforts in countries most in need of help through April 2020. As this outbreak evolves, funding needs are likely to increase.

Donations received will go towards funding the activities of the Strategic Preparedness and Response Plan, which include among others:

- Putting in place activities to Track and understand the spread of the virus;
- Ensuring patients get the care they need.
- Buying and ship essential supplies such as masks, gloves and protective wear for frontline workers
- Producing evidence based guidelines and advice, and make sure health workers and responders get the information and training to detect and treat affected patients;
- Producing guidance for the general public and for particular groups on measures to take to prevent the spread and prevent themselves and others.
- Accelerating efforts to develop vaccines, tests and treatments.

Your donation is greatly appreciated in the global effort supporting the ability of all countries to respond to COVID-19, especially where the needs are greatest and in countries with less access to global markets and lower resources.

Yours Sincerely

Dr. Tedros Adhanom Ghebreyesus.  
Director-General  
World Health Organization (WHO)

While the world deals with the difficulties brought about by these unprecedented times, threat actors are taking advantage of the ensuing pandemic. Employees with good intentions may want to donate to such a good cause, so SOCs need to step in. Thus, let's dig deeper into the domain

name used in the email address cited above.

A quick run on [WHOIS Lookup](#) reveals the following details:

- The domain name was only registered on March 13, 2020.
- The domain registrant is a certain Wang Ping from Guang Dong in China.
- The registrar is Alibaba Cloud Computing Co.



**WhoisXMLAPI**



**Parsed domain name:** covid-19responsefund.org

**Domain name extension:** .org

**Estimated domain age:** 30 day(s)

**Contact email:** DomainAbuse@service.aliyun.com

**Registrar name:** Alibaba Cloud Computing (Beijing) Co., Ltd.

**Registrar Internet Assigned Numbers Authority ID:** 420

## Record update dates

**Created date:** Mon, 13 Apr 2020 06:43:29 GMT

**Updated date:** Mon, 13 Apr 2020 06:43:29 GMT

## Registry data

**Created date:** Fri, 13 Mar 2020 17:04:15 GMT

**Expires date:** Sat, 13 Mar 2021 17:04:15 GMT

## Domain's registrant

**Organization:** wang ping

**State:** guang dong

**Country:** CHINA

**Country code:** CN

In contrast, the official domain name of WHO, that is who[.]int, has entirely different details on its WHOIS record.

- The domain name was registered on June 5, 1998.
- The domain registrant reflects the address of the WHO headquarters in Geneva, Switzerland.
- The technical and administrative contact name is WHO-IMT-ESS, the IT department of the organization.



**Parsed domain name:** who.int

**Domain name extension:** .int

**Estimated domain age:** 7987 day(s)

**Contact email:** hostmaster@who.int

## Record update dates

**Created date:** Sun, 12 Apr 2020 11:50:17 GMT

**Updated date:** Sun, 12 Apr 2020 11:50:17 GMT

## Registry data

**Created date:** Fri, 05 Jun 1998 00:00:00 GMT

**Updated date:** Wed, 14 Jun 2017 00:00:00 GMT

## Domain's registrant

**Name:** address: 20, Avenue Appia

**Street:** 20, Avenue Appia Geneva 27 Geneva Geneva CH-1211 Switzerland

**Country:** SWITZERLAND

**Country code:** CH

One could argue that covid-19responsefund[.]org is new because it was specifically created by WHO in light of the pandemic. But the registrant details don't match, and that's quite suspicious. If WHO indeed created the domain, why use a different name and address?

In line with cybersecurity policies, SOCs should block the domain name and the email address to



prevent employees from falling victim to this heartless scam. Also, they would do well to educate staff about possible scams and cyberattacks that take advantage of COVID-19 in general.

In fact, the above domain is not the only one of its kind. A quick look at the [Typosquatting Data Feed](#)'s file on the day when covid-19responsefund[.]org appeared in the DNS reveals the following list of resembling domain names:

- covid19responsefund[.]nu
- covid19responsefund[.]mobi
- covid19responsefunds[.]com
- covid19responsefund[.]com
- covid-19responsefund[.]com
- covid19responsefunds[.]org
- covid19responsefund[.]top
- covid19responsefund[.]xyz
- covid-19responsefund[.]org
- covid19responsefund[.]biz
- covid19responsefund[.]se
- covid19responsefund[.]info

## Before Going into Business Ventures

Cybersecurity policies and procedures should not exempt C-suites. Studies show that [34% of executives](#) and business owners have succumbed to phishing emails. IT staff members follow at

25%. Everyone needs to follow the rules.

If executives and employees are interested in a business venture but can't seem to establish the legitimacy of a potential partner or even suspect phishing activities, they may not want to visit the site immediately. Instead, they can use WHOIS Lookup. If they need more information after learning the domain registrant's details, they can use [Screenshot API](#) to preview what the website looks like. Good design and coherent text could help in dispelling doubts.

Executives and employees can also coordinate with SOCs to ascertain the security of a website they wish to access. They could ask for assistance in running the domain name through the company's [threat intelligence platform](#) and other security systems.

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[WHOIS Lookup](#) provides a way for SOCs and employees to search for domain names without violating cybersecurity policies. After all, these policies and procedures are in place to protect the company and everyone in it. Exempting a few people could lead to disaster, especially since threat actors are adept at weaponizing domain names.

No one, not even cybersecurity experts, would know for sure if a domain name is a malware host without using the right domain intelligence. As such, it's always better to err on the side of caution and run domain names you're interested in through WHOIS Lookup as a first step.