



SIMATS
ENGINEERING

IDENTIFYING PHISHING WEBSITE

Presented by TEAM H

Introduction

In today's digital landscape, the threat of phishing websites looms large, posing significant risks to online security. Phishing websites mimic legitimate ones, aiming to deceive users into divulging sensitive information such as passwords, financial details, or personal data. Recognizing these fraudulent sites is crucial for safeguarding against cyber threats. By identifying telltale signs such as suspicious URLs, grammatical errors, and requests for confidential information, users can protect themselves from falling victim to phishing scams. Vigilance and awareness are key in navigating the virtual realm safely and securely.





PHISHING WEBSITES:

A phishing website is a fraudulent website designed to deceive visitors into divulging sensitive information such as usernames, passwords, credit card numbers, or other personal or financial data. These websites often mimic the appearance of legitimate websites, such as online banking portals, social media platforms, or e-commerce sites, in order to trick users into believing they are interacting with a trusted entity.

Phishing websites typically operate by sending out phishing emails or messages containing links to the fraudulent site. When users click on these links and enter their information, it is captured by the attackers and can be used for various malicious purposes, such as identity theft, financial fraud, or unauthorized access to accounts.

To protect yourself from phishing websites, it's important to be cautious when clicking on links in unsolicited emails or messages, especially if they request sensitive information. Always verify the legitimacy of websites by checking the URL and looking for signs of security such as HTTPS encryption and trust seals. Additionally, consider using security software that can help detect and block phishing attempts.

PHISHING WEBSITES:



10 WEBSITES:

<https://www.kshdhdwet3.cloudns.biz/>

<https://netflix-akb.vercel.app/login>

<https://spotifyupgraders.cc/>

<http://jntvd.blogspot.am/>

<http://remhf.blogspot.sn/>

<https://pubfdc1193e0e5c4a4c83dbc78d6d8fb286.r2.dev/index.html>

<http://cn.manbet212.com/>

<http://bbefb.blogspot.fi/>

<http://dzvwn.blogspot.bg/>

<http://ndrhj.blogspot.is/>

NON-PHISHING WEBSITES:

A non-phishing website is a legitimate website that has been created for genuine purposes and does not engage in fraudulent activities such as deceiving visitors into divulging sensitive information. These websites serve various functions such as providing information, offering products or services, facilitating communication, or hosting online communities. Non-phishing websites are typically operated by reputable organizations, businesses, educational institutions, government agencies, or individuals with legitimate intentions. They adhere to ethical standards and legal requirements, and they prioritize user trust and security.

Examples of non-phishing websites include:

1. Informational websites: Websites that provide factual information on various topics such as news, education, health, or entertainment.
2. E-commerce websites: Online stores where users can browse and purchase products or services securely.
3. Social media platforms: Websites that enable users to connect, communicate, and share content with others in a virtual community.
4. Government websites: Websites maintained by government agencies to provide official information, services, and resources to the public.

NON-PHISHING WEBSITES:

5. Educational websites: Platforms offering online courses, tutorials, or resources for learning purposes.

Non-phishing websites typically have clear and transparent purposes, legitimate contact information, and proper security measures in place to protect user data and privacy. They are essential components of the internet ecosystem and contribute positively to users' online experiences.

10 WEBSITES:

<https://iitm.ac.in/>

<https://jnu.ac.in/main/>

<https://www.du.ac.in/>

<https://www.cricbuzz.com/>

<https://life.saveetha.com/>

<https://arms.sse.saveetha.com/>

www.youtube.com

www.google.com

www.instagram.com

<https://www.techtarget.com/searchstorage/definition/cache-memory>

SOURCE CODE:

```
import requests
from bs4 import BeautifulSoup
from datetime import datetime

def check_website_availability(url):
    try:
        response = requests.head(url)
        if response.status_code == 200:
            return True
        else:
            return False
    except Exception as e:
        print(f"Error checking website availability: {e}")
        return False
```

SOURCE CODE:

```
def check_phishing_website(url):
    try:
        # Check website availability
        if not check_website_availability(url):
            return "Website is not available on the internet"

        # Get Alexa rank
        alexa_rank = get_alexa_rank(url)

        # Check if rank is above average and website is available over a long time
        if alexa_rank is not None:
            if alexa_rank > 100000 and is_website_old(url):
                return "Not a phishing website"
            else:
                return "Phishing website"
        else:
            return "Alexa rank not available"
    except Exception as e:
        print(f"Error checking phishing website: {e}")
    return "Error occurred"
```

SOURCE CODE:

```
def get_alexa_rank(url):
    try:
        alexa_url = f"https://www.alexa.com/siteinfo/{url}"
        response = requests.get(alexa_url)
        if response.status_code == 200:
            soup = BeautifulSoup(response.text, 'html.parser')
            rank_element = soup.find("div", class_="rank-global")
            if rank_element:
                rank = rank_element.text.strip().replace(',', '') # Remove commas from rank
                return int(rank)
        return None
    except Exception as e:
        print(f"Error fetching Alexa rank: {e}")
        return None

def is_website_old(url):
    try:
        response = requests.get(url)
        if response.status_code == 200:

```

SOURCE CODE:

```
soup = BeautifulSoup(response.text, 'html.parser')
    rank_element = soup.find("div", class_="rank-global")
    if rank_element:
        rank = rank_element.text.strip().replace(',', '') # Remove commas from rank
        return int(rank)
    return None
except Exception as e:
    print(f"Error fetching Alexa rank: {e}")
    return None

def is_website_old(url):
    try:
        response = requests.get(url)
        if response.status_code == 200:
            creation_date = datetime.strptime(response.headers['Date'], '%a, %d %b %Y %H:%M:%S %Z')
            current_date = datetime.now()
            time_difference = (current_date - creation_date).days
            if time_difference >= 365: # Check if website is older than 1 year
                return True
```

SOURCE CODE:

```
return False
except Exception as e:
    print(f"Error checking website creation date: {e}")
return False

# Example usage
website_url = "https://www.google.com" # Replace with the URL of the website you want to check
print("Checking website availability...")
if check_website_availability(website_url):
    print("Website is available.")
    print("Checking if it's a phishing website...")
    result = check_phishing_website(website_url)
    print("Result:", result)
else:
    print("Website is not available.")
```

CONCLUSION:

Sure, here are simple conclusions for phishing and non-phishing websites:

Phishing Websites:

- Phishing websites are fake sites designed to trick you into giving away personal information.
- They often look like real websites, but they're created by scammers to steal your data.
- Be cautious with emails or messages asking for personal info and double-check website addresses before sharing anything.

CONCLUSION:

Non-Phishing Websites:

- Non-phishing websites are real and trustworthy sites created for genuine purposes.
- They can be online stores, social media platforms, government sites, or educational resources.
- These websites follow ethical standards and protect your data, making them safe places to visit and use online.

Contact Us

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Thank you