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# Cybersecurity Advisory on Cyber Vigilance: Defending against Malicious Links and Misinformation

**Coordination Division** <coord@hec.gov.pk> Fri, May 16, 2025 at 2:05 PM
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**The Registrars,**

**All HEIs.**

The attached self-explanatory letter received from the National Cyber Emergency Response Team regarding the subject cited above is forwarded for your kind information and necessary action, please.

**Coordination Division**

**Higher Education Commission (HEC),**

**Islamabad**

**Cybersecurity Advisory on Cyber Vigilence Defending against Malicious links and Misinformation.pdf**
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**F.No.1-1/2025/DG (nCERT)/200** **Dated, the 07 May, 2025.**

Subject: **Cybersecurity Advisory on Cyber Vigilance: Defending Against Malicious Links and Misinformation**

In light of the recent escalation, and the heightened threat landscape impacting national cybersecurity, the attached Advisory titled "Cyber Vigilance: Defending Against Malicious Links and Misinforamtion" (Annexure) has been issued by the National Cyber Emergency Response Team (National CERT).

2. The Advisory outlines the rising cyber threats, potential cyber attacks, and prescribes critical immediate and strategic cybersecurity measures required to protect national interests, critical infrastructures, and public trust.

3. It is requested that the attached Advisory may kindly be disseminated to all relevant departments and organizations under your administrative control, and necessary action may be taken accordingly to ensure heightened vigilance and readiness.

**Annexure:** NCA-22.050725 – NCERT Advisory – Cyber Vigilance: Defending Against Malicious Links and Misinforamtion

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**National CERT**
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All Secretaries of Ministries/ Divisions of the Federal Government and Chief Secretaries of the Provincial Governments

**Annexure**

National Cyber Emergency Response Team

Government of Pakistan

# NCA-22.050725 – National CERT Advisory – Cyber Vigilance: Defending Against Malicious Links and Misinformation"

## Introduction

The National Cyber Emergency Response Team (National CERT) is issuing this high priority advisory in response to an escalating border situation with a neighboring country. Our objective is to protect against a rapidly evolving array of cyber threats that target every facet of our digital infrastructure. Adversaries are seizing on the current climate to launch sophisticated cyber attacks and spread disinformation, deliberately aiming to compromise our critical networks. By exploiting the prevailing tensions, these malicious actors mask their intent behind deceptive communications, phishing schemes, and false narratives designed to confuse and destabilize.

As our governmental, corporate, and personal systems increasingly rely on robust digital channels, it is imperative that all stakeholders—whether in administrative roles, IT security, or individual users—exercise heightened vigilance.

## Scope and Impact

This advisory addresses the multifaceted nature of cyber attacks targeting our digital landscape. Threat actors use a variety of entry points to infiltrate systems, including:

a. **Phishing Emails and Attachments:** Attackers send emails that mimic trusted sources, embedding malicious URLs or attachments designed to bypass security filters.
b. **Social Media and Messaging Platforms:** Cybercriminals spread harmful links through posts, WhatsApp messages, and instant alerts, often disguising them under the guise of urgent notifications.
c. **Compromised Websites and Malicious Advertisements:** Unauthorized ads and infected web pages may host concealed malicious links, directing users to download malware or expose sensitive data.
d. **QR Code Exploitation:** Emerging tactics include QR codes that redirect to harmful websites, further increasing the risk when these codes are shared widely.

The impact of these threats can be severe: from unauthorized access and data theft to network infiltration and reputational damage across governmental, corporate, and private sectors.

## Tactics, Techniques, and Procedures (TTPs)

Cyber adversaries are continuously refining their methods to deceive even the most cautious users. Their techniques include:

a. **Deceptive URL Crafting:**

- Use of homograph attacks—crafting URLs that mimic trusted domains by substituting similar characters.
- Employment of URL shorteners to mask the destination, making it difficult to assess legitimacy at first glance.

b. **Embedded Malicious Links in Communications:**

- Dissemination of phishing emails and social media messages that imitate official advisories, complete with stolen logos, design elements, and branding.
- Distribution of harmful URLs through compromised accounts or spoofed profiles on social media platforms.

c. **Exploitation of Insecure Channels:**

- Propagation of links via compromised instant messaging systems, SMS, and even QR-code-based redirection methods.
- Use of seemingly benign file-sharing sites to host dangerous files with embedded malicious links.
- These sophisticated methods go beyond traditional attack vectors, requiring heightened vigilance in identifying and neutralizing suspicious links and communications.

## Recommendations and Best Practices

To protect against these diverse threats, we recommend the following rigorous cybersecurity practices, with a special focus on suspicious links:

a. **Avoid Clicking Suspicious Links:**

- Treat any unsolicited email, message, or social media post containing a link as potentially dangerous.

- Before clicking, hover over the link or use a URL expander to verify the actual destination. Alerts such as unexpected domain names or misspellings are clear indications of malicious intent.

b. **Use Trusted Sources Only:**

- Source updates exclusively from verified government channels, National CERT communications, or trusted cybersecurity entities.
- Resist the urge to share or act on information propagated through informal networks like WhatsApp or unverified social media posts.

c. **Limit Application Access and Permissions:**

- Review and restrict permissions for apps, especially those with access to sensitive data.
- Disable or revoke permissions for applications that are not critical, reducing potential avenues for exploitation.

d. **Strengthen Endpoint Security:**

- Ensure all devices are equipped with up-to-date antivirus software and real-time threat detection tools.
- Employ multi-factor authentication (MFA) and strong, unique passwords across all systems.

e. **Enhanced Network Monitoring:**

- Integrate advanced threat intelligence and anomaly detection systems within your network to spot unusual outbound connections or unauthorized data exfiltration attempts.
- Regularly update firewalls and intrusion detection systems to recognize and block emerging threats.

f. **Stay Updated from National CERT:**

Follow National CERT and other trusted cybersecurity entities for accurate advisories and threat alerts. Ensuring you have the latest information is crucial in adapting to quickly evolving threats.

## Call to Action

National CERT calls on all citizens, organizations, and IT professionals to rigorously apply these security measures. Every link—whether in an email, social media post, text message, or QR code—should be treated with scrutiny. By avoiding the click on unverified links and relying solely on trusted information channels, we can collectively thwart cyberattack attempts and prevent the spread of dangerous misinformation. Your vigilance makes a critical difference in safeguarding our national digital ecosystem during these sensitive times.

National CERT is committed to actively countering these threats by reinforcing our cybersecurity measures, ensuring rapid response protocols are in place, and providing accurate, timely updates. Together, by staying informed through trusted channels and rigorously adhering to best security practices, we can mitigate these risks and uphold the integrity of our nation's digital landscape.

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