

CYBER SECURITY AWARENESS

NEVER TRUST. ALWAYS VERIFY.

Building a Safer Digital Environment



Cyber security protects sensitive data., ICT equipment, endpoints, servers, networks, applications and mission-critical assets through technology, processes and practices.



For government officers and organisations, one compromised account, device, email or application can become an entry point for a larger cyber attack.



UNDERSTANDING THE CYBER THREAT

Cyber attacks often begin with information gathered from a person's or organisation's digital footprint. Attackers use this intelligence to send malicious links or messages and exploit human action. This can lead to account takeover, information theft or financial loss.



**Pause.
Verify.
Think**
before you click.



COMMON CYBER THREATS



Phishing & Multilayer Phishing



Credential Theft



OTP Fraud



QR Code Scams



Fake Website Scams



Malicious APKs & Side-Loading Apps



Shadow IT Systems



Payment Receiving Traps



Freebie / Reward Scams



Account Takeover



Information Gathering through Digital Footprints

THE HUMAN FACTOR

Cybersecurity is not just about technology; it's about people. Attackers exploit urgency, fear, curiosity and trust when verification fails.



URGENT



FEAR



CURIOSITY



TRUST

LACK OF
VERIFICATION

Suspicious **links**, unexpected **attachments**, unknown **applications**, fake **websites** and urgent **requests** can begin a cyber incident.



REAL-WORLD SCENARIOS



FAKE WEBSITES

Fake websites look real and are designed to steal your credentials or financial information.



OTP FRAUD

Fraudsters trick you into sharing OTP and gain access to your accounts.



QR-CODE SCAMS

Malicious QR Codes can lead to fake websites or trigger unwanted transactions.



MALICIOUS APPLICATIONS

Fake or harmful apps can also be installed on your device.



ACCOUNT TAKEOVER

Attackers use stolen credentials or tricks to take over your accounts and misuse them.

ZERO TRUST & EVERYDAY CYBER HYGIENE

THE ZERO TRUST APPROACH

1



NEVER TRUST, ALWAYS VERIFY

Verification before access or action.

2



LEAST PRIVILEGE

- Minimum privilege
- Temporary privilege
- Just-enough access
- Just-in-time access

3



ASSUME BREACH

- Reduce the blast radius
- Improve visibility and detection
- Respond effectively
- Enable recovery

SEVEN LAYERS OF CYBER SECURITY



TAKEAWAY: Cyber attacks may involve multiple stages, but prevention can often begin with one simple action—**verify before you trust**.

PRACTICAL SECURITY MEASURES



EMAIL SECURITY

- Do not open unknown links or attachments.
- Verify the sender's email address.
- Watch for urgency, fear or unusual requests.
- Be cautious of generic greetings and requests for personal information.
- Check suspicious links using appropriate security tools.
- Contact the sender directly when necessary.
- Delete suspicious emails and scan the device.
- Report incidents to the organisational CISO / Dy. CISO as appropriate.



PASSWORD SECURITY

- Use strong, long passwords with mixed characters.
- Change passwords regularly.
- Never reuse passwords.
- Enable MFA wherever available.
- Never share passwords, OTPs, or PINs, even with genuine-looking callers or messages.



WHATSAPP & COMMUNICATION SECURITY

- Be cautious of unexpected messages, links, files, or requests.
- Don't click unknown links or download unknown files.
- Verify the sender through a trusted channel.
- Don't share personal, financial, or confidential information.
- Report and block suspicious accounts.



MALICIOUS APK PROTECTION

- Disconnect from the Internet/Intranet.
- Log out and uninstall sensitive apps.
- Restart in Safe Mode and remove the malicious app.
- Run a security scan.
- Change sensitive passwords.
- Clear cache and downloads.
- Reset/format the phone if required.
- Report the incident on <https://cybercrime.gov.in> or call to 1930.



VERIFY BEFORE YOU ACT

Use trusted security tools such as VirusTotal and URLScan to check links, files and websites for phishing and malicious content before you click or download.



VIRUS TOTAL



URL SCAN



“The best
firewall
against cyber
criminals is
your brain.”

BUILDING CYBER RESILIENCE THROUGH POLICY REALIGNMENT

STREAMLINING DATA SECURITY, GOVERNANCE & RESPONSIBLE DATA MANAGEMENT



Cyber resilience is built on strong policies, responsible data governance, clear data classification, and continuous compliance with evolving requirements.



Under the DPDP Act, 2023, DPDP Rules, 2025 and NDSAP, 2012, organisations are responsible not only for protecting data, but also for ensuring that data sharing is lawful, authorised, secure and accountable.”

Key Focus Areas



Policy & Regulatory Alignment

Align with DPD Act, 2023 DPP Rules, 2025 & NDSAP, 2012

- Build compliance into systems
- Operationalising policy through governance frameworks



Data Processing & Maturity

- Strengthen data quality and maturity
- Ensure secure processing at every stage
- Enable trustworthy insights for decision-making



Data Confidentiality

- Classify data based on sensitivity
- Apply least privileged access
- Protect data across its lifecycle
- Prevent unauthorised use, disclosure and leakage

DATA PROCESSING LIFECYCLE



Raw Data

- Examples:
- Security
 - Safety
 - Confidentiality
 - Satellite imagery
 - Machine readings



Processed Data

- Examples:
- Cleaner and structured and solidified datasets



Enriched Data

- Examples:
- Analytics, visualization, GIS, system and statistical techniques, AI processed etc.

RESILIENT ECOSYSTEM



Policy



Data Classification



Secure Processing



Controlled Access



Responsible Sharing



Continuous Compliance



DIGITAL PERSONAL DATA PROTECTION ACT, 2023

Protecting Personal Data, Building Trust in India's Digital Economy.



WHY THIS ACT MATTERS



Establishes a strong legal framework for protection of personal data.



Promotes trust in digital services and strengthens the digital economy.



Defines clear rights for individuals and duties for organisations.



Supports innovation with responsible and ethical data practices.

KEY PRINCIPLES



Purpose Limitation — Personal data should be used only for a specified purpose.



Data Minimisation — Collect only the personal data that is necessary.



Storage Limitation — Retain data when only as it is needed, and erase it when the purpose is fulfilled.



Consent & Transparency- Consent may be free, specific, unifiable, or required, supported by appropriate notice.



Should ensure that personal data is complete, accurate and consistent.



Appropriate technical and ethical training should be implemented to protect personal data and address breaches.

INDIVIDUAL RIGHTS



Right to access personal data held by organisations.



Right to correction and updating of inaccurate data.



Right to ensure of personal data when no longer necessary.



Right to object to processing of personal data.



Right to data portability in an usable format.



Right to be informed and notified of data breaches.



इलेक्ट्रॉनिक्स एवं सूचना प्रौद्योगिकी मंत्रालय
MINISTRY OF
ELECTRONICS AND
INFORMATION TECHNOLOGY

