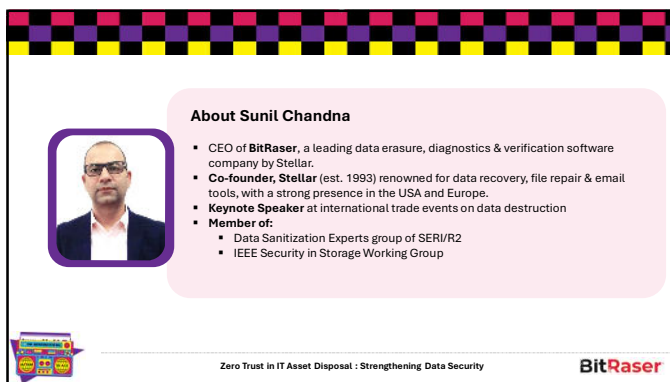
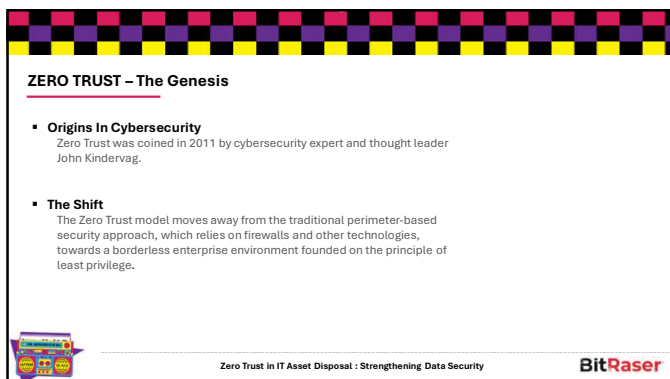




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The Core of ZERO TRUST

Zero Trust is a security framework that assumes no entity—whether internal or external—should be trusted by default. Instead, continuous verification is required at every stage, including IT Asset Disposition.


NEVER TRUST, ALWAYS VERIFY applies to every asset.

- Requires **Strict Access Controls**
- Enforcement of **Least Privileged Access**
- Applies to **Data, Devices, and Users in the IT Asset Lifecycle.**



What is Least Privilege Access?

The principle of least privilege (PoLP) is an information security concept which maintains that a user or an entity should only have access to the specific data, resources and applications needed to complete a required task.



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Why Zero Trust Matters in IT Asset Disposal?


Data breaches stemming from Improper IT asset disposal are a growing concern. With costs averaging millions of dollars per breach, organizations cannot afford to overlook ITAD security.

Zero Trust framework is a proactive approach to eliminate these risks.



Some Alarming Stats:

- Over **20% of all data breaches** are linked to lost or improperly disposed devices. ¹
- The human element was a component in **68% of breaches excluding malicious actors.** ²
- As per IBM, the average **cost of a data breach in 2023 was \$4.45 million**



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Core Pillars of Zero Trust in IT Asset Disposal

1 Define Media Disposal Policy & Roles

A Media Disposal Policy should lay disposal methods, compliance standards, roles, audit procedures, and secure data erasure guidelines.

2 Identity & Access Management (IAM)

Enforce multi-factor authentication (MFA) and role-based access controls at every disposal stage.

3 Data Encryption & Sanitization

Use advanced cryptographic techniques and certified data wiping tools to ensure data is irrecoverable.

4 Continuous Monitoring


Implement end-to-end monitoring of the disposal process, chain of custody documents with real-time alerts.

5 Maintain Certificate of Destruction (CoD)

Immutable CoD for audit purpose should be logged and maintained for anytime anywhere access.

6 Vendor & Partner Assurance

Integrate third-party service providers into the zero trust framework. Align ITAD with industry standards (ISO 27001, NIST, R2v3, e-Stewards).



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Integration of Zero Trust into IT Asset Disposal

01 Define Data Destruction Policy
Clear and Concise Policy that mentions:


- ✓ Scope & applicability
- ✓ Relevant compliance standards
- ✓ Data destruction methods
 - Onsite & offsite data sanitization procedure
 - Remote erasure for distant workforce
 - Documenting certificate of destruction (CoD)
 - Regular auditing for process verification
- ✓ Roles of personnel (trained on data destruction)
- ✓ Retention & disposal timelines
- ✓ Reconcile devices decommissioned with CoD

02 Implement Least Privileged Access Policy

- ✓ Employees should only access what is necessary
- ✓ Authentication is required at every step
- ✓ Revoke access once the task is complete

03 Classify Data and Asset Inventory
Categorize IT assets based on:

- ✓ Device type: laptops, desktops, servers, mobile
- ✓ Storage technology: HDDs, SSDs, hybrid drives
- ✓ Data sensitivity: confidential, public, internal

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Integration of Zero Trust into IT Asset Disposal

04 Implement On-Premise Data Destruction

- ✓ Basis data destruction policy, choose the right data destruction method
- ✓ Set up dedicated data erasure station within company premises or hire a certified service provider for performing on-premise wiping
- ✓ Hire a skilled team of technicians
- ✓ Maintain audit trails
- ✓ Perform data destruction verification

05 Implement Off-Site Data Destruction

- ✓ Select a certified ITAD vendor with R2, e-Stewards, or ADISA certifications
- ✓ Erase data before devices leave company premises, even if destined for shredding.
- ✓ Maintain chain of custody documentation for secure asset transportation with real-time tracking to prevent data or device theft in transit.
- ✓ Seek detailed audit reports from ITAD vendors.

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Integration of Zero Trust into IT Asset Disposal

06 Implement Remote Data Sanitization


- ✓ Enforce erasure policies for employee offboarding
- ✓ Automate erasure when an employee leaves or a project ends.
- ✓ Deploy remote erasure software to securely wipe data from remote endpoints used by WFH employees
- ✓ Automate erasure via centralized enterprise management system initiate erasure remotely
- ✓ Obtain proof of erasure automatically

07 Define Criteria to Select Right ITAD Vendors


- ✓ Must have either, R2, e-Stewards, ADISA ICT, NAID AAA certification.
- ✓ Real-time tracking of assets in transit
- ✓ Adherence to industry standards for data destruction
- ✓ Reconcile the picked devices with received assets and processed items.
- ✓ Ensure capability to apply advanced data erasure techniques (e.g., Block Erase / CE)

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- Zero Trust in ITAD eliminates implicit trust and enforces verification.
- Implement a clear, documented ITAD policy with strict oversight.
- Use certified data erasure tools to prevent data recovery.
- Regularly audit ITAD processes and ensure compliance with industry standards.
- Secure remote data erasure is essential for hybrid and remote workforces.



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