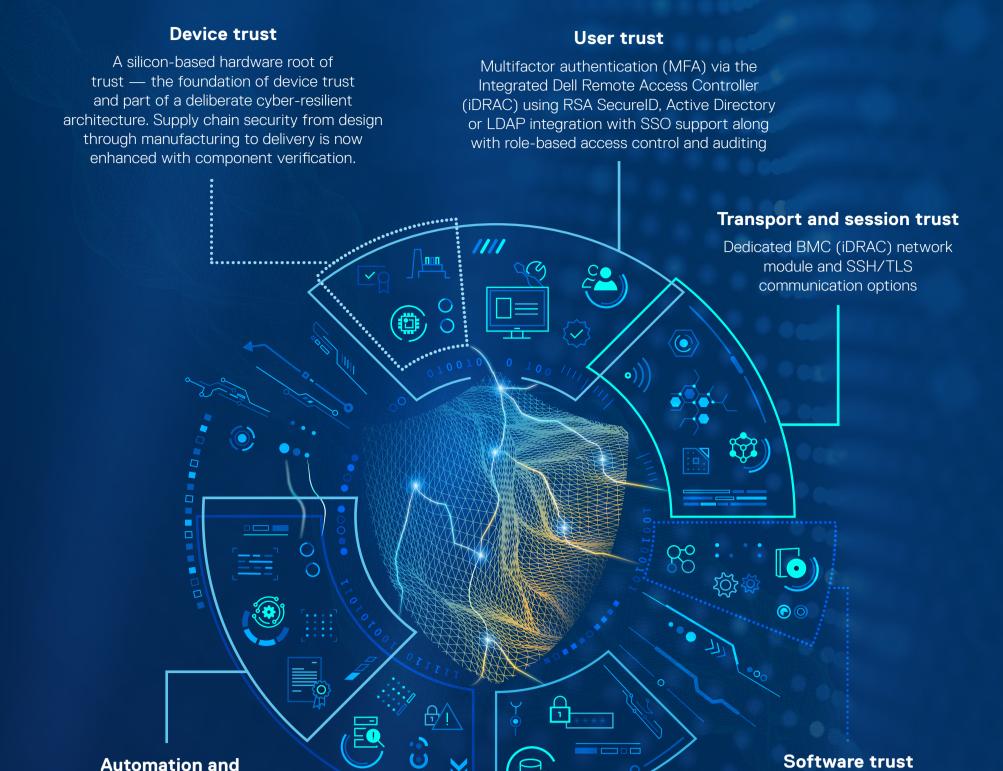
# Zero Trust. Verified Trust.

Meet the challenge of ever-changing threats with the new standard in cybersecurity.

The complexity of the modern IT infrastructure along with the sophistication of today's threat landscape requires a trust model that validates at every point in the IT environment before permissions are granted.



## and automated deployments for security configuration consistency

orchestration

Dell EMC OpenManage Enterprise

drift detection and firmware

rollback, centralized updates.

automatic SSL certificate renewal

Persistent event logging/auditing and security alerts along with the Dell vulnerability responses team provides timely mitigations to any vulnerabilities found in the wild.

Visibility and analytics

**Data trust** 

Data-at-rest encryption, scalable key management and confidential compute with data-in-use protection

Secure software development, signed BIOS/firmware updates,

secure E2E boot and UEFI boot

capabilitie, and drift detection plus

automatic BIOS and OS recovery

## infrastructure end-to-end lifecycle. The Dell Technologies approach to security is intrinsic in nature — it is built in, not bolted on. It is

Zero trust is integral to the Dell Technologies

integrated into every phase of the server lifecycle — from design to manufacturing through use and end of life. We continue to innovate to meet the ever-growing threat landscape.



# cyber resilience and zero trust from the time features are conceived

delivery process.

Design and develop

and designed through production and maintenance. This provides assurance to the customer that servers are resilient at their foundation.

Dell Technologies Security Development Lifecycle (SDL) prioritizes

Manufacture and deliver The Dell Technologies supply chain assurance program implements safeguards that enable zero trust across the physical, personnel and cybersecurity realms to ensure a resilient manufacturing and

customers augment zero trust with cryptographic verification of devices. This ensures that a system built in a Dell Technologies factory has the same components as the one that arrives at the customer's site.

With the newly released Secured Component Verification program,

### Security controls and comprehensive management tools enable zero trust deployments using robust layers of security across hardware and

integrity attestation

Deploy and maintain

firmware in the areas of: · Expanded root of trust: immutable platform root of trust,

· End-to-end verified boot: cryptographically-verified trusted boot · Advanced data protection: encryption and key management of data at rest, data in flight and data in use

Zero trust should extend all the way to system end of life.

- · Secure server lifecycle: multifactor authentication, system lockdown, drift detection, comprehensive event logging and vulnerability
- rapid response

# Systems need to be taken out of production securely to avoid data

Retire and repurpose

compromise and misuse. System erase eliminates nonvolatile stores in memory and storage devices including, logs, configuration data, storage data and cache so that no confidential information is compromised. Customers can also take advantage of Dell Technologies Data Sanitization Services.

#### around a set of principles that presumes the network is

Tenets of zero trust

Zero-trust architecture is built

always vulnerable to compromise — in some way — and sets out to safeguard access to critical data and resources.1

Apply multifactor authentication models and authorization rights that are time based, scope based, role based, etc.

Assume every user and device is a potential threat.

✓ Authenticate and authorize at communication intersections of the infrastructure.

✓ Apply the principle of "least privilege" to restrict users (and their devices).

- No entity is inherently trusted, and verification is required to access all assets.



#### your network and encrypts it until a ransom is paid. Variants threaten to release the sensitive data to the public. This is cyber-extortion, and it has organizations moving to a

zero-trust model to secure their IT infrastructure. But not all threats are malware. Threats can come from anywhere, and it is critical to secure all aspects of the enterprise network from the edge to the endpoint, data

center and cloud. Dell Technologies has security built into our industry-leading servers, storage, HCl and data protection appliances to help protect data wherever it is stored, managed



In the wake of a rash of bold cyberattacks and ever-evolving risks that have targeted everything from the national energy grid to the food supply chain, organizations are going back to the fundamentals of information security. Unlike trust-then-verify frameworks, the zero-trust approach performs verification before it trusts a user, or device, and grants access. The Dell Technologies zero-trust approach

has been refined to align with the U.S. Department of Defense (DoD) standards and, in the near future, government agencies, their vendors and those in heavily regulated industries — like infrastructure, transportation, energy, healthcare and banking — can expect more scrutiny to be placed on them to comply with zero-trust security specifications.

Learn more about cyber-resilient Dell PowerEdge servers.

Visit DellTechnologies.com/Servers or our Infohub.