

SOLUTION BRIEF

Zero Trust Compliance

Supporting NIST 800-Series and CMMC Certification with Panzura and OneTier



OneTier, in conjunction with Panzura, have assembled a secure data handling, networking, and cyber security engineered platform solution that is applicable to all government agencies as well as organizations requiring certification for government contracts. It includes automated penetration testing and risk assessment, an encrypted Global File System with secure Software Defined Networking, and an automated cloud and datacenter orchestration engine.

The solution allows for Zero Trust compliance and CMMC 2.0 certification, while driving efficiency and cost savings within the platform. This solution is available for Panzura customers and channel partners.

Enabling Zero Trust compliance for NIST 800 and CMMC 2.0 Certification

For organizations looking to remain competitive and compliant in a data-driven world, integrating and automating governance and compliance into their data storage strategy is essential for long-term success. By taking proactive steps to implement data governance and adhere to compliance standards, businesses can ensure that their data remains secure, accessible, and aligned with both internal policies and external regulations — creating a strong foundation for growth.

- 01 The **OneTier** platform starts with an automated penetration testing tool that scans the existing network and systems for vulnerabilities and exploits. Any identified vulnerabilities are then correlated to the organization’s financials and mapped to NIST 800-53, 171, and 207, for mitigation, remediation and attestation.
- 02 The **Stealth Networking** architecture replaces traditional VPNs, providing secure and granular control over edge device access and traffic flow across any network. It continuously monitors inbound and outbound connections for threats. OneTier’s advanced secure Software Defined Networking transport operates over existing networks with full encryption, multi-path self-healing, and self-routing capabilities. It obfuscates traffic, rotates pathways, eliminates re-transmits with burst transmission, and does not expose ports. Integrated into the Global File System (GFS), it ensures complete edge-to-edge protection for devices and data streams. The network functions as a mesh of endpoints, isolating and connecting applications while being continuously monitored with security overwatch tools.

- 03 The **Panzura CloudFS Global File System (GFS)** is a highly secure, encrypted mesh network with multiple cloud and edge access points. Designed as an immutable, ransomware-proof solution, the GFS offers robust protection against data exfiltration and ensures seamless recovery from internal and external encryption attacks. Users can effortlessly access files through common shares, web tools, and policies, eliminating the need for traditional backups by utilizing continuous snapshots and cloud mirroring. The GFS supports both structured and unstructured data, delivering advanced search capabilities, powerful analytics, and accelerated file transfers, all safeguarded with post-quantum encryption. The system is fully certified with the stringent NIST FIPS 140-3 required for CMMC 2.0 and 3.0, ensuring top-tier security and reliability.
- 04 Panzura CloudFS is compatible with a wide range of object stores that are FedRAMP Moderate or High approved, allowing data to remain compliant in your choice of cloud-based and on-premises storage.
- 05 OneTier's **KubeZT** is a secure Kubernetes distribution that integrates all security functions into virtual containers. It orchestrates a stealth global data mesh using a secure network overlay, leveraging private DNS and certificate trust authorities to create an invisible infrastructure. This shields services and data from external threats, even on public networks. Legacy databases can securely connect to the KubeZT mesh via private DNS, while its SDKs enable applications to embed zero-trust connectivity directly, ensuring all communication is controlled and restricted within the stealth data mesh.
- 06 The OneTier **AnyCloud Orchestration** engine models workloads for deployment across any environment, providing real-time pricing and adjustable parameters. It generates Terraform scripts and automates deployment to the chosen cloud or datacenter, and recovery. Post-deployment, it monitors changes and executes necessary scripts, reducing deployment time and costs by up to 7x compared to traditional methods.

Our platform can form the secure data core for any organization or enterprise and allow for secure and rapid development and deployment of resources, with a minimum of personnel. This allows for complete monitoring and reporting to keep the environments evergreen, and can be deployed as a service or as individual components.

Panzura empowers today's digital-first organizations to do impossible things with file data, making them more agile, efficient, and productive. They trust Panzura to help them consolidate dispersed data, see and manage data in and out of the cloud, make it more cyber-resilient and AI-ready, and ensure it is available to people and processes where and when it's needed.

Discover how Panzura can fuel your success at panzura.com.