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PROGRAM EXECUTIVE OFFICE DIGITAL & ENTERPRISE SERVICES



# Unlocking Value with Hyper-Converged Infrastructure

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- Hyper-Converged Infrastructure (HCI) provides a range of capabilities to address numerous challenges and problems confronting our Navy.
- Our objective is to deliver new and inventive approaches for enhanced capabilities to the warfighter.
- Today, our primary focus is to provide an overview for the areas of interest we are actively pursuing and to elucidate how the Navy and PEO Digital are utilizing HCI to their advantage.



## Areas of Focus

- Improve the User Experience
- Zero Trust Alignment
- Tactical Edge
- Network Modernization
- Addressing Challenges for Users Outside the Continental United States
- Disrupted, Disconnected, Intermittent & Low Bandwidth (DDIL)
- Resolving Legacy Infrastructure for Accelerated Cloud Adoption



*Protecting Data First*

## Zero Trust Alignment

- Network Segmentation
  - Within a Zero Trust framework, network segmentation serves as a fundamental security practice that harmonizes with additional security measures, including identity and access management, encryption, and continuous monitoring. Through the division of the network and the enforcement of rigorous access controls, Navy can substantially fortify our security stance while mitigating the potential for internal and external security breaches.
- Data Loss Prevention
  - Protecting sensitive data, preventing data leaks, enforcing data protection policies, and maintain control over their data.
- Identity Credential Access Management
  - Identity and access management bolstered by Zero Trust capabilities, reinforced through multi-factor authentication.





*Broadening capabilities and services in remote locations*

## Tactical Edge

- Deploying HCI stacks in a shipboard environment as part of a proof-of-concept.
- Deploying HCI stacks at co-location sites to enhance routing and enable multi-cloud capabilities.
- Testing and evaluating in Disrupted, Disconnected, Intermittent, and Low Bandwidth (DDIL) environments.
- Centralized Management
- Continuous Compliance Monitoring



## Addressing Challenges for Users Outside the Continental United States

- Cloud Application Migration
- Moving core services to the edge closer to users
- Transitioning away from on-premises endpoint management infrastructure
- Discovering deficiencies and previously unforeseen technical obstacles during pilot initiatives



## Network Modernization

- Leveraging Software Defined Networking (SDN) to enhance flexibility and scalability.
- Streamlining network intricacy to enhance both high availability and user experience.
- Leveraging Direct Cloud Connectivity from endpoints to enable services like 5G to their fullest extent.





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*Implementing an accelerated path to cloud*

## Resolving Legacy Infrastructure for Accelerated Cloud Adoption

- PEO Digital and NETWARCOM have transitioned workloads to Hyper-Converged Infrastructure (HCI) as part of their strategy to migrate legacy servers away from aging infrastructure, facilitating a smoother transition toward cloud migration.





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Questions / Wrap-Up

## CONTACT US

### How to schedule a meeting for Industry



<https://public.cloud.navy.mil/industry>



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