

# Red Hat enables U.S. Navy's C2C24 DevSecOps program

**Industry**

Government

**Software**

Red Hat® Ansible® Automation

Red Hat Application Runtimes

Red Hat Consulting

Red Hat OpenShift®

Naval Information Warfare Center Pacific (NIWC Pacific) provides the U.S. Navy and Joint Services with information warfare capabilities in command and control, communications, computers, intelligence, surveillance, and reconnaissance (C4ISR), cyber, and space.

**Challenge**

The Navy's current software development and delivery processes are being challenged by the speed of technological change. The Navy needs to address emergent cybersecurity vulnerabilities in near-real time, while also delivering new functionality and warfighting capabilities to the operational forces. These new capabilities are necessary to reduce the cognitive workload on system users, increase operational readiness, and optimize use of limited resources at the tactical edge.

**Solution**

With its Compile to Combat in 24 Hours (C2C24) initiative, the U.S. Navy transformed how it develops and deploys software to the fleet. C2C24 used open source tools and best practices in software development, security, and operations (DevSecOps) to enhance data development, management, and usage. This resulted in increased software reliability, stability, and capability. Working with Red Hat Consulting, NIWC Pacific created a secure application development pipeline, and then successfully demonstrated automated application deployments. Based on the validation of the C2C24's DevSecOps pipeline, the C2C24 effort is expanding to include support for ashore sites.

**Benefits**

- Increased warfighting capability by rapidly developing and deploying capability to the U.S. Navy.
- Demonstrated how emerging technology and approach can significantly increase readiness and deliver capabilities in a rapid manner.
- Enabled optimized use of limited resources at the tactical edge.

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*"Our collaboration with the U.S. Navy helped them make a strategic shift in their processes that, combined with Red Hat OpenShift and Ansible technologies, increased the Navy's warfighting capability and responsiveness. This transformation in fleet readiness helped the "Compile to Combat in 24 Hours (C2C24)" initiative use limited resources at the tactical edge."*

**Nathan Jones**

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