Rancher Government Carbide™

A secure supply chain to unleash the power of Kubernetes and open source innovation.

Key Benefits

SECURITY
Secure the software supply chain by verifying provenance back to a specific entity.

TECHNOLOGY AGNOSTIC
Achieve innovation in microservices and freely utilize all the leading-edge technologies that support government agency missions.

SPEED
Accelerate manual software security & validation processes and optimize staff by replacing human intervention with automation.

KUBERNETES EXPERTISE ON-DEMAND
Gain access to advanced Kubernetes expertise and eliminate the need to acquire rare, expensive talent through a team of specialized engineers with the highest-level security clearance.

Introducing Rancher Government Carbide

Securing the software supply chain is mission critical to the federal government, particularly after the 2020 SolarWinds breach. Given Cybersecurity Executive Order 14028, the ongoing risk of software supply chain attacks, and the criticality of software to daily operations, balancing security with innovation is essential to accelerating government missions. Furthermore, agencies must ensure software is free of vulnerabilities while identifying and tracking third-party components through software bills of materials (SBOMs).

Validating security and compliance within the Kubernetes ecosystem is often complex to navigate in the federal space. While increasing agility and accelerating application development are key initiatives, limited tooling exists to help government agencies succeed in their DevSecOps missions. For these reasons, Rancher Government Solutions (RGS) has developed Rancher Government Carbide™.

Overview

Rancher Government Carbide™ is an add-on support service to the existing Rancher products suite. It is designed to assist supported customers with overcoming the unique challenges of application modernization, containers, and Kubernetes faced by the U.S. Government and military. Carbide delivers cutting-edge capabilities to enable software supply chain security and support federal security compliance requirements.

Carbide simplifies Kubernetes management by providing a better, more standardized way for users to verify and validate software. Its pipelines utilize tools for vulnerability scanning and generating SBOMs.

Carbide supports the first and currently only Kubernetes distribution with a DISA certified STIG outside of the upstream project, as well as complementary tooling.

Advanced Features & Capabilities

Rancher Government Carbide™ includes multiple advanced capabilities tested and integrated with the underlying certified Kubernetes environment.

- **DISA STIG certifications**: Rancher Government Solutions is the only company to obtain fully certified and approved DISA STIGs for their Federally-driven Kubernetes distribution (RKE2) and their Enterprise Multi-Cluster Manager (Rancher).

- **STIGATRON**: STIGATRON is a tool within Carbide built to validate downstream clusters from the centralized Rancher Multi-Cluster Manager. By automatically scanning downstream clusters and comparing them to the DISA-certified STIG, STIGATRON alleviates the obstacles system administrators face in the validation process, enabling compliance with the security standards of the federal government.

Software Supply Chain Security

Enabled by Carbide Secured Registry (CSR).
CSR enables software supply chain security by providing a centralized secure container registry to end users, validated by a secured signing key.

- SLSA (supply chain levels for software artifacts) level 3 compliant pipeline

- Software bill of materials (SBOM), vulnerability scans, attestations, and verifiable digital signatures for the entire Rancher portfolio

Not only are users able to validate and verify the software itself, but also the vulnerability scan and SBOM to prove they easily, reliably are from Rancher.

Airgap Documentation

Troubleshooting technical issues within an airgap environment is a difficult undertaking. To eliminate the headaches of working without external connectivity, Rancher provides full, airgap capable access to documentation for the entire Rancher product suite, including Carbide. Airgap documentation also extends out to the edge for customers working with small form factor devices in the field.

Edge Capabilities

At Rancher Government Solutions, the edge is a first-class citizen. Rather than retrofitting tools to work in an edge environment, RGS technologies are built for the edge from the start. We believe in continuously improving the user experience, which includes allowing DevSecOps teams to deploy full Kubernetes capabilities in smaller footprints.

A Security First Approach

RKE2 is the only distribution of FIPS- 140-2 Kubernetes certified and hosted in the USAF IRON BANK container

RGS Support Subscription

RGS is pleased to offer Carbide as part of a paid support subscription at no additional cost. We encourage all Rancher customers to consider the Rancher Government Solutions Support subscription – a complete customer support services plan for Rancher products.

RGS proudly offers multiple options to support customer needs, all of which include:

- Assigned customer service representative to manage support requests and queries
- 24/7/365 troubleshooting and break/fix for critical issues
- U.S. based support for non-critical issues during business hours
- One high-level architecture review session upon onboarding
- Full-stack support for Kubernetes, container runtime and Rancher products covered by purchased licenses
- Dedicated Slack or MS Teams for ad-hoc support

About Rancher Government Solutions

Rancher Government Solutions (RGS) is specifically designed to address the unique security and operational needs of the U.S. Government and military as it relates to application modernization, containers, and Kubernetes. RGS supports all Rancher products with U.S. based American citizens with the highest security clearances who are currently supporting programs across the Department of Defense, Intelligence Community, and civilian agencies. **To learn more contact us at info@ranchergovernment.com or 844-RGS-7779.**

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