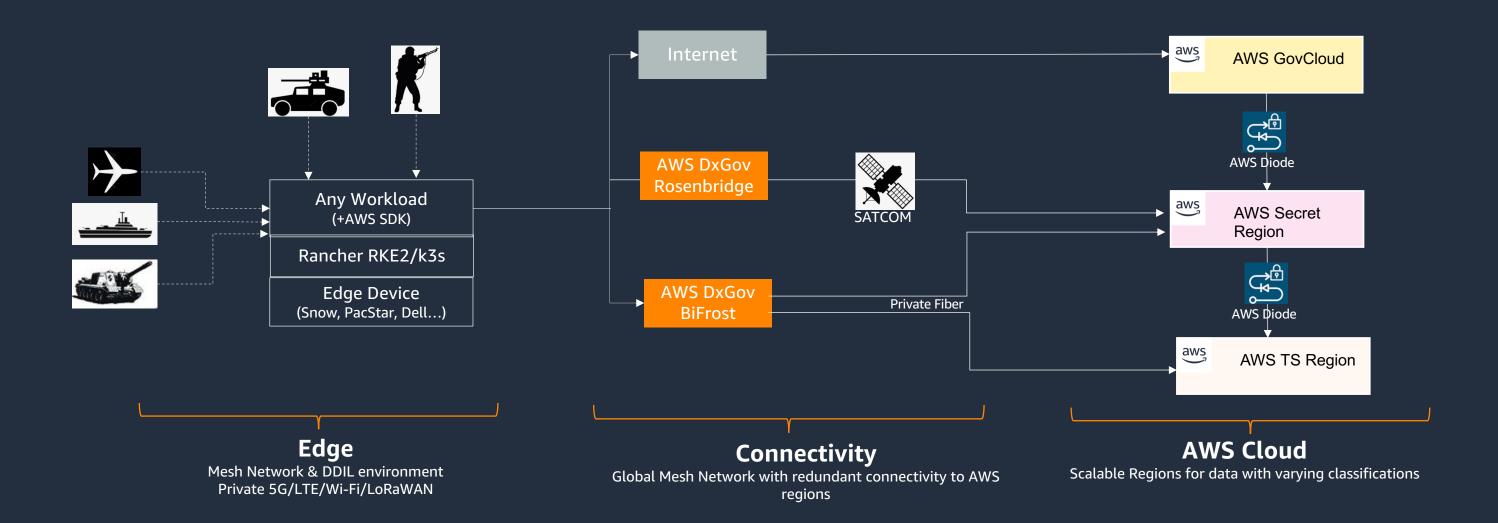




Sensor Fusion and GenAI solution offering demo - Featuring: Pacstar, Rancher Government Solutions & Kinetica



Unlocking Data & AI at the Edge with partners – GTM Strategy





Unlocking Data & AI at the Edge with partners

















PACSTAR Communications Solutions

Fred Elliott, Sr. Manager, Business Development **Defense Solutions Division**





Introduction to PacStar

- Founded in 2000
- Headquartered in Portland, Oregon with sales and support offices worldwide
- Manufacturer of COTS, small form factor, rugged networking and computing solutions
- Developer of integrated communications management software
- 90% of clients are US Military, CONUS and OCONUS, including NATO and Coalition Partners
- Extensive military credibility
 - ITAR (and non-ITAR) solutions
 - Experience developing products for classified networks
- System integrator partner with DoD primes such as GD, L3, Harris, Leidos, Rockwell, etc.
- Extensive access to contract vehicles, including on GSA contract
- 2020: Curtiss-Wright acquires PacStar





PacStar products organized into three major categories

SMALL FORM FACTOR HARDWARE



MIL-STD-810G PASS
MIL-STD-461F PASS



PacStar NOTM **Vehicle Installation**

- Powerful, small, mobile, rugged, and highly modular COTS-based communications hardware
- Example major program wins:
 - U.S. Army T2C2, SFAB, Phoenix, ITN, ESB-E, USAREUR and more (soldier-portable + command post systems)
 - U.S. MC NOTM, NOTM-A (vehicle installations)
 - NATO Countries / CoalitionPartners(Multiple programs)
 - U.S. AF, Navy, SOF and more...

IQ-CORE® SOFTWARE











- Single pane of glass to manage both complex tactical communications systems and enterprise head-ends
- Example major program wins:
- U.S. Army PM TN IQ-Core Network
 Manager Software (9,000+ nodes)
- U.S. Army PM TN IQ-Core Crypto
 Manager (200 wireless command posts)
- U.S. Marine Corps MCH
- DoD / Fed Civ and IC CSfC
 Enterprise Head Ends TBA

INTEGRATED SOLUTIONS



PacStar

Secure Wireless
Command Post
(Fielded. Multiple
Certified Variants)



- PacStar hardware + IQ-Core Software + 3rd party software integrated to provide turnkey, secure solutions
 - Secure Wireless Command Posts (CSfC)
 - Modular Data Center
 - Modular Radio Center
- Example major program wins:
 - U.S, Army PM TN fully certified and fielded over 200 units.
 - U.S. Marine Corps MCH pilots
 - Joint Staff certified and registered, supporting pilots now



PacStar 400-Series Size, Weight and Power

- 10.4 times lighter than a typical 1ru server
- 12.4 times smaller than a typical 1ru server
- Up to 18 times less power consumption





Select PacStar 400-Series Major Programs

U.S. ARMY T2C2

Full Rate Production Decision Jan 2018

U.S. ARMY Secure Wireless Command Post

Operationally Deployed

U.S. ARMY EUROPE 7th ATC (MPE)

Have been delivering for last two years

U.S. ARMY SFAB

• Delivered 3 Brigades, 3 more Brigades scheduled in 2019

U.S. ARMY ESB-E

Operational Field Evaluation

U.S. ARMY ITN SCOUT

USMC NOTM, NOTM-A, NOTM-ULTV

• Operationally deployed on multiple type of ground vehicles, aircraft (V22), and amphibious vehicles (ACV, ARV)

USMC CDN (WSM-L, WSM-X, UAC)

USMC Marine Common Handheld

USMC Common Aviation Command and Control System (CAC2S)

Numerous U.S. AF, U.S. Navy, and SOF customers, TBA















CAGE code: 8GLZ3 DUNS: 117387835

Rancher Government Solutions is specifically designed to address the unique security and operational needs of the U.S. Government and military (Security, Compliance, Air-Gap, Tactical Edge)

- Only Multi-Cluster Manager (MCM) & Supported K8S Distribution (RKE2) to have a STIG validated & published by DISA
- Deployed & ATO'd currently NIPR, SIPR, JWICS

Rancher offers a complete open-source software stack for teams adopting containers. It addresses the operational and security challenges of managing multiple Kubernetes clusters at scale, while providing DevOps teams with integrated tools for running containerized workloads.

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.

 RGS Consists of only US based/US Soil: Engineering, Operations and Sales with over 70% holding clearances.

Rancher Federal: Security First

Enabling security at every layer for our federal partners

- DISA STIGs (First & Currently Only):
 - Rancher Multi-Cluster Manager for Kubernetes
 - RKE2 Kubernetes Distribution
- RKE2 FIPS-140-2 support: The only vendor supporting FIPS in FOSS
- Engineers contributing patches to containerd runtime to enable SELINUX for K3s and RKE2 distributions







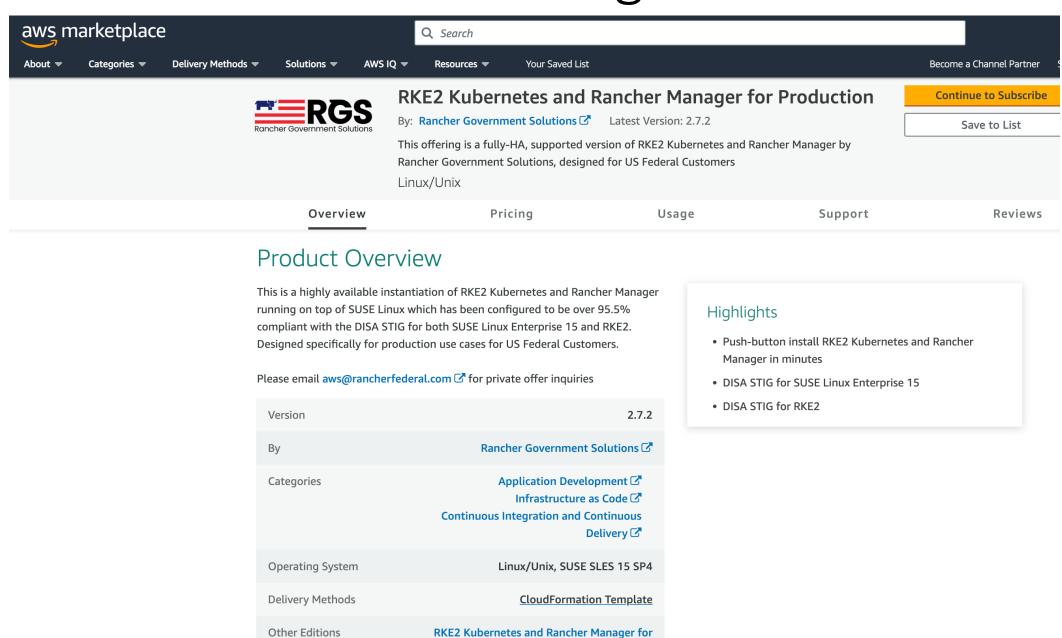


RKE2 is the only distribution of FIPS-140-2 Kubernetes certified and hosted in the USAF IRONBANK container registry

Active Customers: Active Authorities to Operate (ATOs) Accelerating Federal stakeholders to empower the mission from development to production



RKE2 & Rancher Manager: GA in AWS GovCloud



Available NOW!

Push-button buyable

Auto-deploys SLES, RKE2 and MCM to the STIGs

Negotiable pricing via "Private Offer"

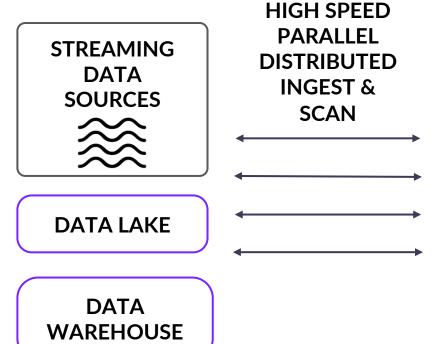
ICMP in progress

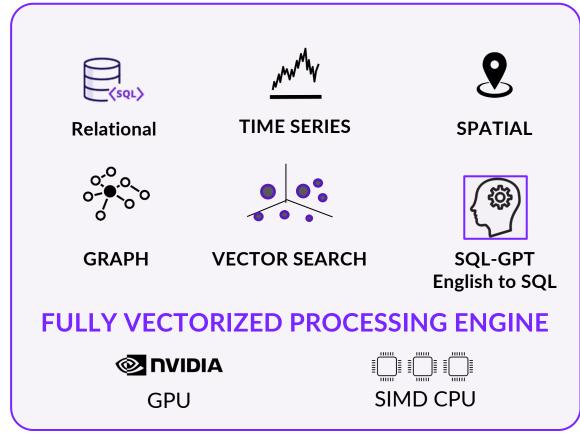
Production 2

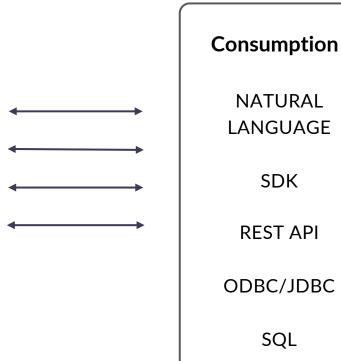


A Complete Speed Layer for Real-Time Analytics and Generative Al

ki∩≡tica











Everything you'd expect in an enterprise database



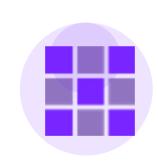
ANSI SQL 92



REST & Native APIs



PostGresql Compliance



Cell-Level Security



Tiered Storage



High Availability



200+ Built-in Data Source Connectors



Server Side Rendering



Multi-cloud, On-premise, Or On-Edge

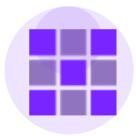
Generative AI – Native Language to SQL & Vector Search



Anomaly Detection with Vector Similarity Search



Conversational Dialog to SQL



First and Only Vector Database with unified SQL query Model



Full Analytical Query Landscape

- Relational
- Graph
- Time-series
- Spatial operators



Kinetica Live With USAF ABMS Program on IL4 & IL6

- Kinetica Provides Near Exact capabilities as DSS for USAF ABMS, NORAD Pathfinder, and the FAA EIM Next Gen Program
- Kinetica is the selected Capability Provider to ingest and tune all data ingested into the ABMS program
- Kinetica Database provides data warehousing and server-side rendering to all feeds ingested and displayed on the CBC2 map
- Kinetica has integrated a Large Language Model (LLM) to CloudOne IL4 & II6
- Fully containerized deployed via Kubernetes
- UCI 2.x compliant outputs

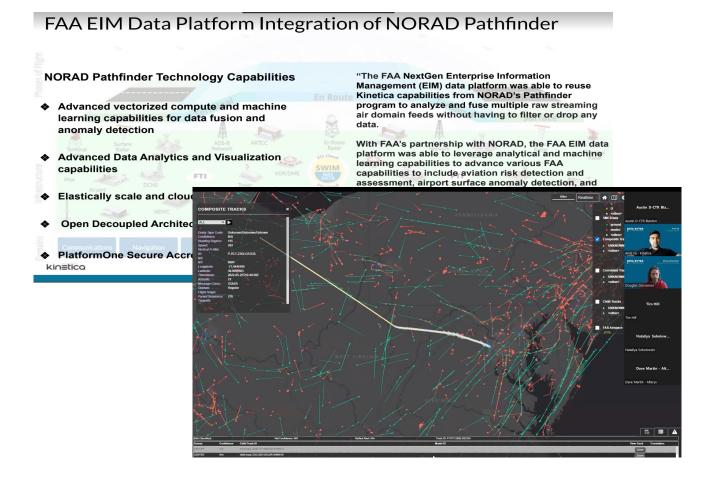
"[Kinetica] essentially takes and ingests — aggregates — data from multiple systems, data that would in the past have been ... left on the cutting room floor and not analyzed or assessed in a timely manner," "The Pathfinder program uses machine learning to help us analyze that data from multiple systems — not only military systems, but commercial systems, other government agency systems...Pathfinder solves that problem by taking the data from each of those systems and fusing it into a common operating picture. In developing Pathfinder, NORAD virtually recreated the 2015 event by plugging the data from that day into its new AI-machine learning capability."

NORAD & USNORTHCOM Commander General Glen VanHerck

ki∩≡tico

Kinetica Deployed on FAA EIM Program

- Kinetica serving as Cloud Data Warehouse to ingest, store, analyze, and visualize multiple high velocity data streams
- Live and Historical analysis
- Platform One certified containers deployed on FAA cloud in AWS

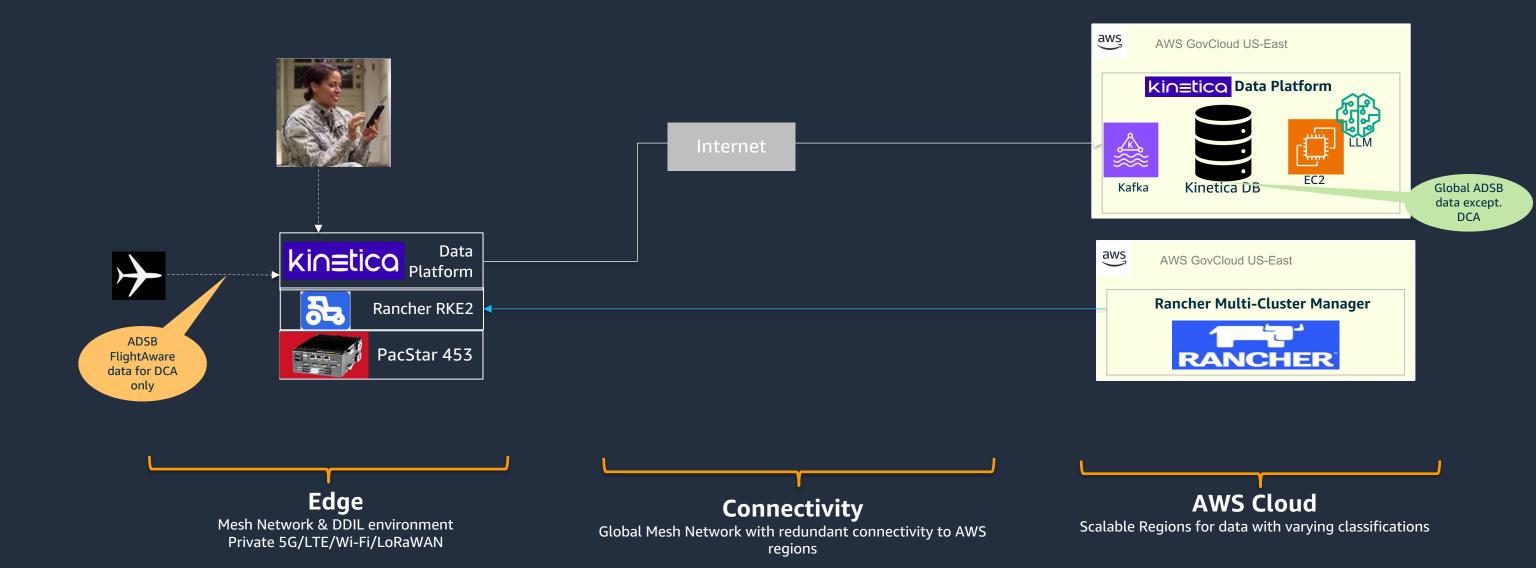


FAA EIM Program Lunch & Learn Demo at (Starting at 20 min mark) https://www.youtube.com/watch?v=jpU5ipGbFO4

DEMO



Demo Environment





Q & A

