



Run Secure Kubernetes Everywhere

Andy Clemenko - Field Engineer

Agenda

1. Who we are – Cool kids...
2. What are Containers – Quick Primer.
3. Why Kubernetes – Why you need a scheduler?
4. Why Rancher – Who is Rancher?
5. Rancher Stack – Show me the burrito!
6. Demo – Live

Jon Bouges

- Based in Charlotte, NC
- WVU Alumni
- Avid Golfer and Hockey - Go AVS!
- Supporting DOD over 12 years
- Cyber to Data Mgmt to Kubernetes

jon.bouges@RancherFederal.com



Who am i?

- Former DOD Contractor
- Docker - PS, SE, TAM
- Stackrox/RedHat - SE
- Rancher user for 6+ years
- Volunteer Firefighter/EMT

@clemenko

Andy.Clemenko@RancherFederal.com

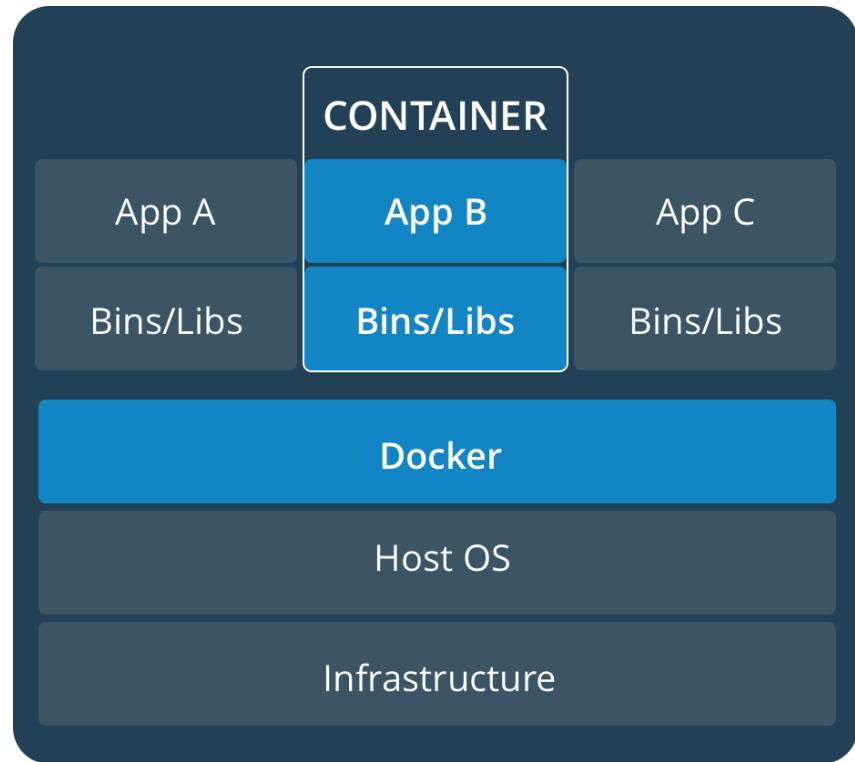


Containers?

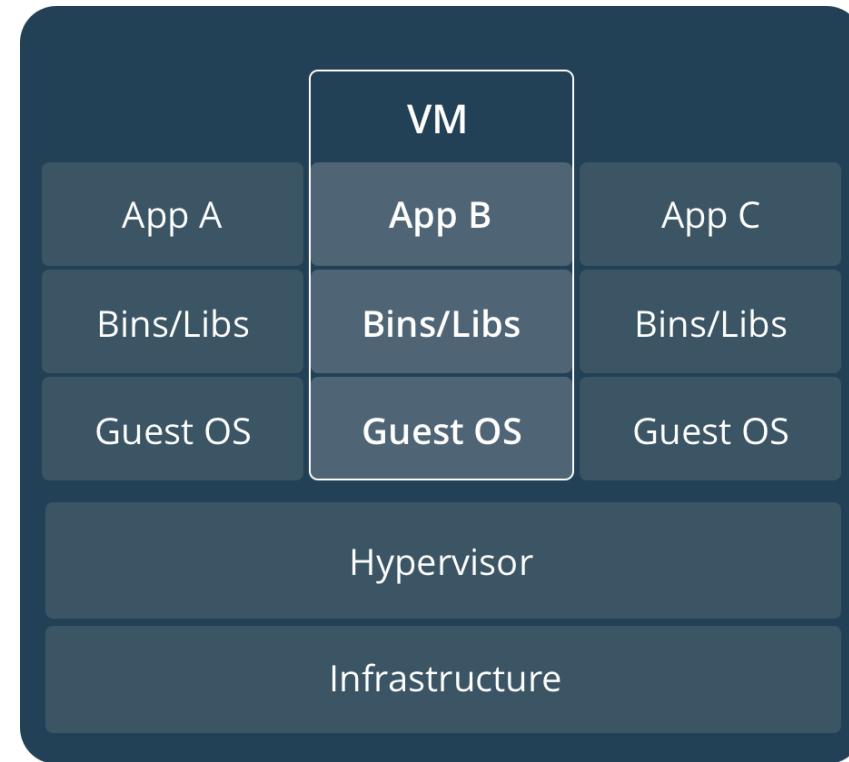








Containers are an app
level construct



VMs are an infrastructure level
construct to turn one machine
into many servers

Why Kubernetes



No Really, Why K8s?



1. Service discovery and load balancing
2. Storage orchestration
3. Automation
4. Self-healing
5. Secret Management

from : <https://kubernetes.io/docs/concepts/overview/what-is-kubernetes/>

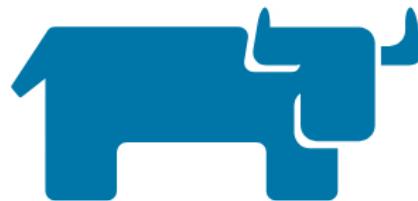
Why Rancher



Rancher Government's 3 Pillars of Success

Enterprise Support

- 24/7 CONUS-based enterprise support for Rancher & ecosystem
- Technical Account Manager & bootstrap architecture support
- Cleared Onsite support (70% of RFed TS/SCI)
- On-Prem/Airgap as a first-class citizen
- Training



Professional Services

- On-site (or remote) full-time engineers
- Cloud-native advocates & evangelists focused on bootstrapping or delivering customer success
- Multiple prime contracts at USAF PlatformOne



Mission-Accelerator

- Dedicated to weaponizing the Rancher product portfolio to work better in air-gap/classified/mission environments
- Bring a security-first mindset to the Rancher capabilities by baking in NIST FIPS-140-2/3 encryption & DISA STIG certification
- Collaborated to develop the RKEGovernment/RKE2 secure-by-default Kubernetes distribution



Rancher Goverment (SUSE RGS)

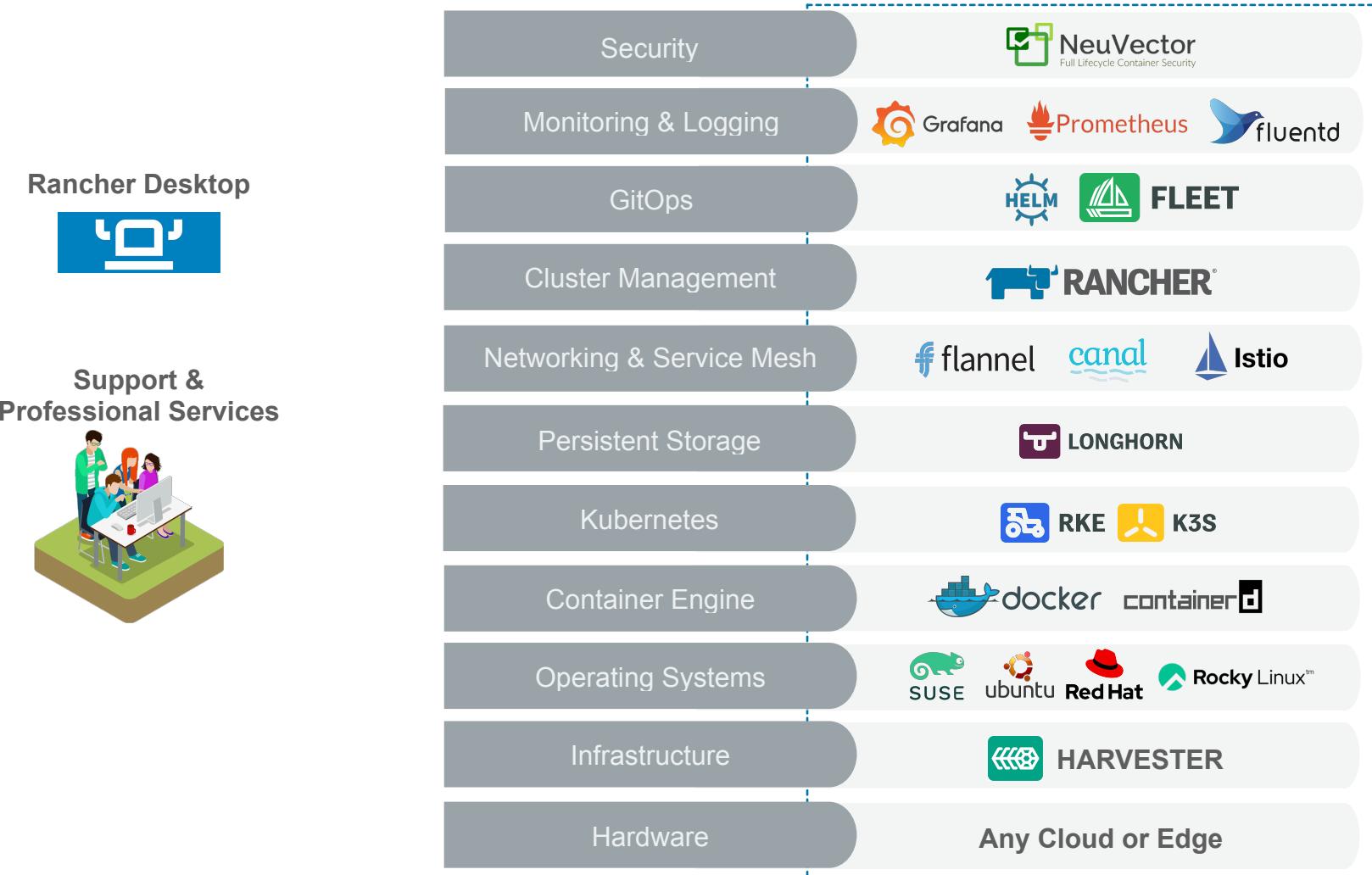
- Rancher Goverment is a 100% US-based entity dedicated to delivering Kubernetes and Cloud Native Technology solutions and support across the DoD, IC, and Federal community
- Rancher Goverment offers varying levels of service including US-State Side Support and cleared on-site support
- Rancher Goverment exists to enhance Rancher's capabilities to meet the ever evolving Federal mission requirements
 - PKI Authentication
 - SELinux/FIPS Compliance
 - STIG/CIS Hardening
 - Enterprise Audit Functionality
 - Air-Gapped, C2S, SC2S, GovCloud Support
 - Automated Upstream Image Vulnerability Scanning



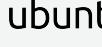
Rancher Stack



Empowering where your mission goes



If you act now...

Authentication & Authorization	Rancher SLA	Certified Integrations
App Management & CI/CD	  FLEET	 Microsoft Active Directory  okta   OpenLDAP
Monitoring & Logging	 Grafana  Prometheus  fluentd	 Jenkins  GitLab  Bamboo  Drone
Registry & Image Scanning		 splunk >  DATADOG  Sysdig  elasticsearch
Container Security & Secrets	 flannel  canal  Istio	  HARBOR™  JFrog Artifactory
Networking & Service Mesh	 RANCHER®  K3S  RKE	 traefik  NGINX  PROJECT CALICO  LINKERD
Platforms & Orchestration		 GK  AKS  Amazon EKS  HashiCorp Terraform
Persistent Storage	 docker  containerd	 portworx  OpenEBS  STORAGEOS
Container Engine		 Windows  SUSE  ubuntu®  Red Hat
Operating Systems		 vmware®  aws  Azure  openstack
Infrastructure Drivers		

RGS Proprietary

Need an ATO?

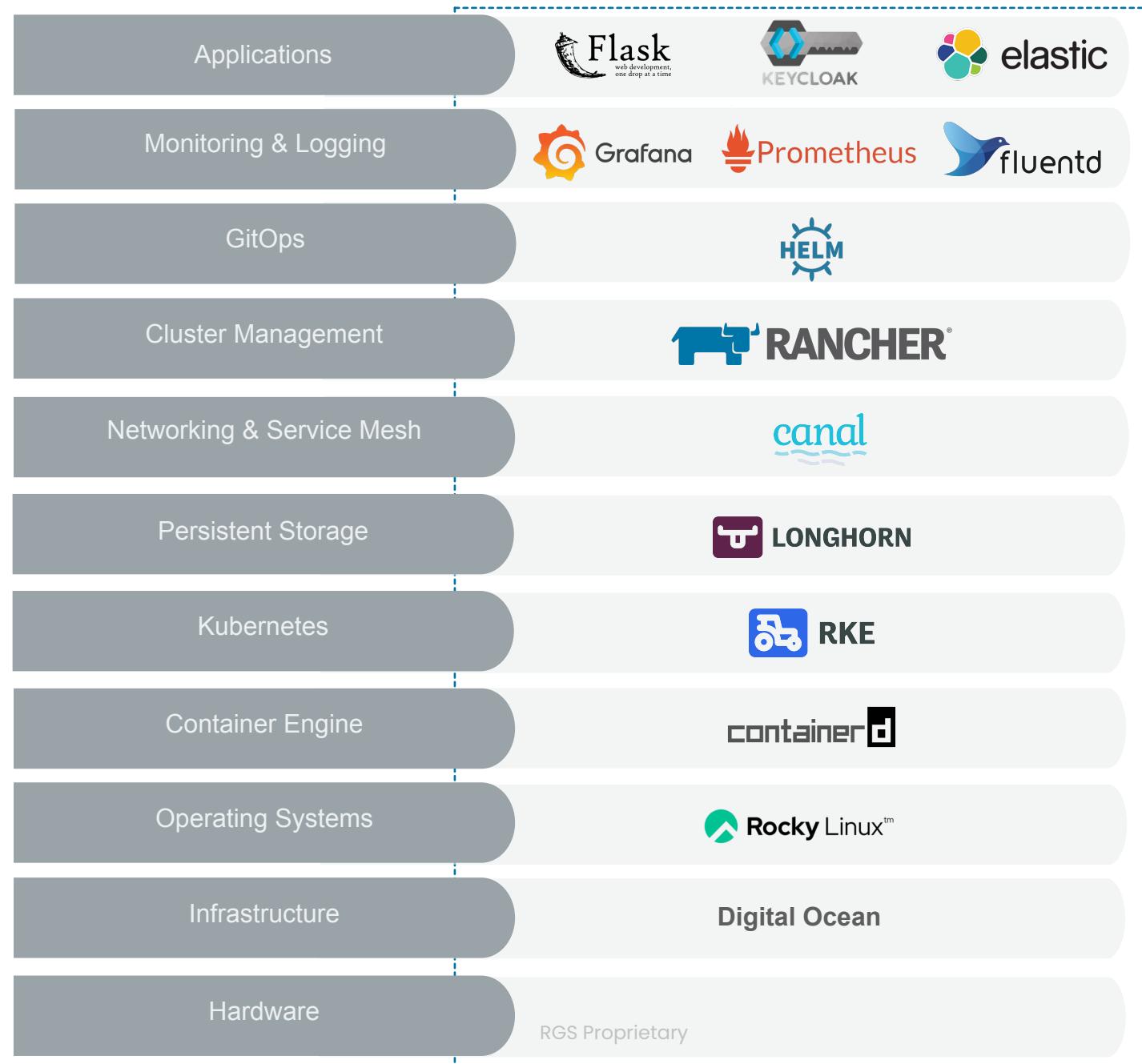


Demo

<https://rfed.io/topgun>



Demo:





CAGE code: 8GLZ3
DUNS: 117387835

Thank you

For more information, contact us at:

(844) RGS-7779

info@ranchergovernment.com

www.ranchergovernment.com

<https://rfed.io/topgun>

One more thing – Project Carbide

Stigatron – RKE2/Rancher STIG Operator for Validation

Secure Software Factory – SBOM Secure Registry. Process for Air Gapping suite

