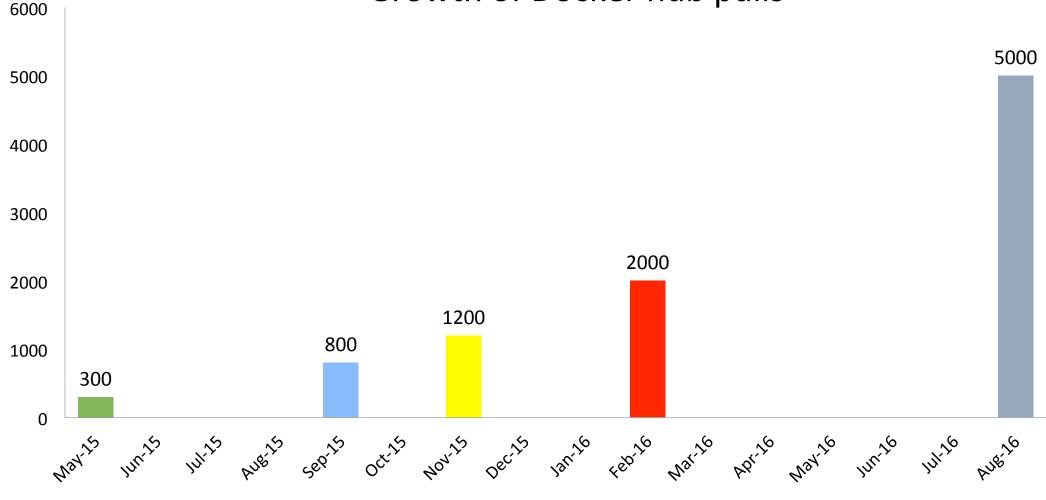


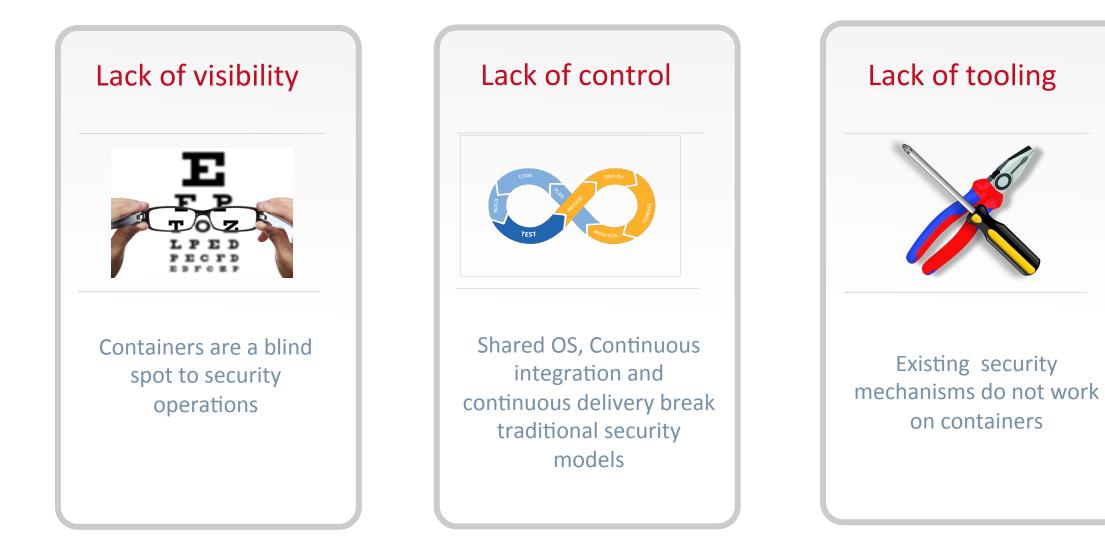
millions

Growth of Docker hub pulls

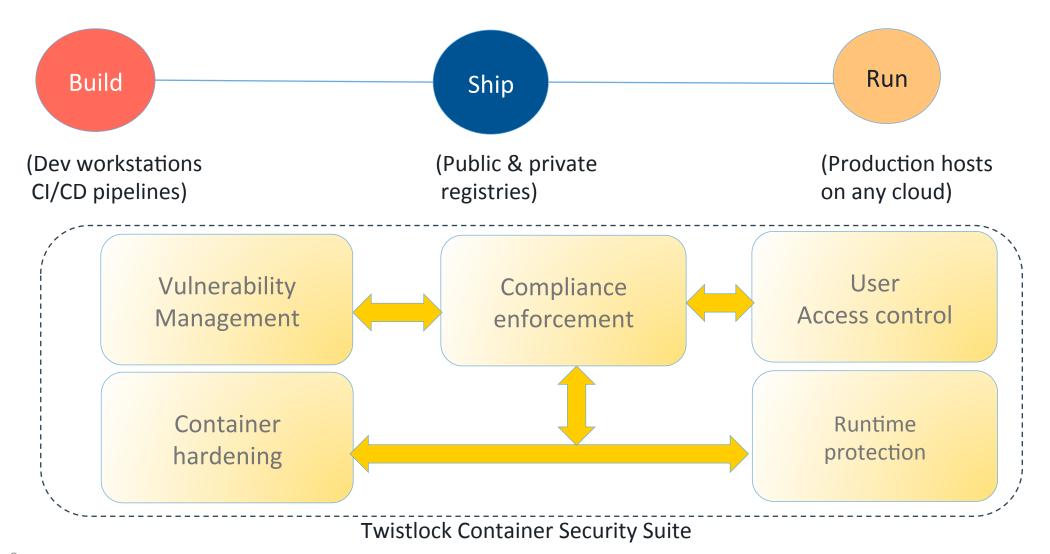


May-15 Jun-15 Jul-15 Aug-15 Sep-15

Security challenges of container operations

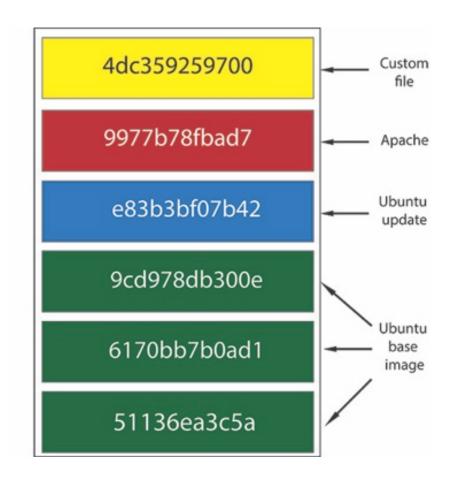


Twistlock delivers security built for containers



Vulnerability Management

- Vulnerability & malware scanning of image layers
 - Linux distro, Java, Node, PHP, Python, Ruby Gem, etc.
- Enforce vulnerability-based policies
 - Prevent vulnerable containers from deploying
- Real-time threat & vuln intelligence
- Built-in CI support: Jenkins, TeamCity
- Any registry, anywhere
 - Docker Hub, GCR, AWS ECR, Artifactory, ...



Compliance & hardening

- 90+ built-in checks
- Verify settings for
 - Container
 - Docker daemon
 - Host
 - Docker files & directory
 - Hardware
- Trust control
 - Deploy only scanned, approved images

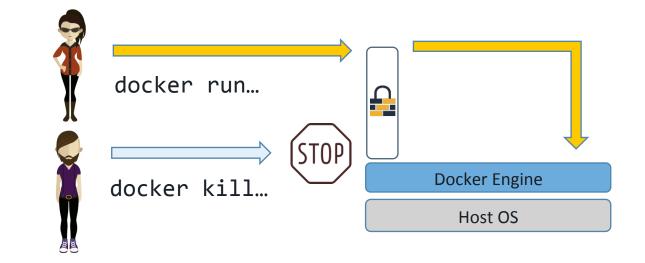
	52	container	Verify SELinux security options, if applicable (CIS 5.2)	
	53	container	Verify that containers are running only a single main process (CIS 5.3)	 Container policies
	11	host_config	Create a separate partition for containers (CIS 1.1)	
		-		 Host policies
	12	host_config	Use the updated Linux Kernel (CIS 1.2)	
	47	image	Image contains vulnerable jar versions	
0	-17	iniuge	inage containa vanerable jar versiona	 Image policies
	48	image	Image contains vulnerable ruby gem versions	7.9

Access control

Fine-grained access control to Docker, Docker Swarm, and Kubernetes management plane

Active Directory, Kerberos, OpenLDAP, and SAML integration

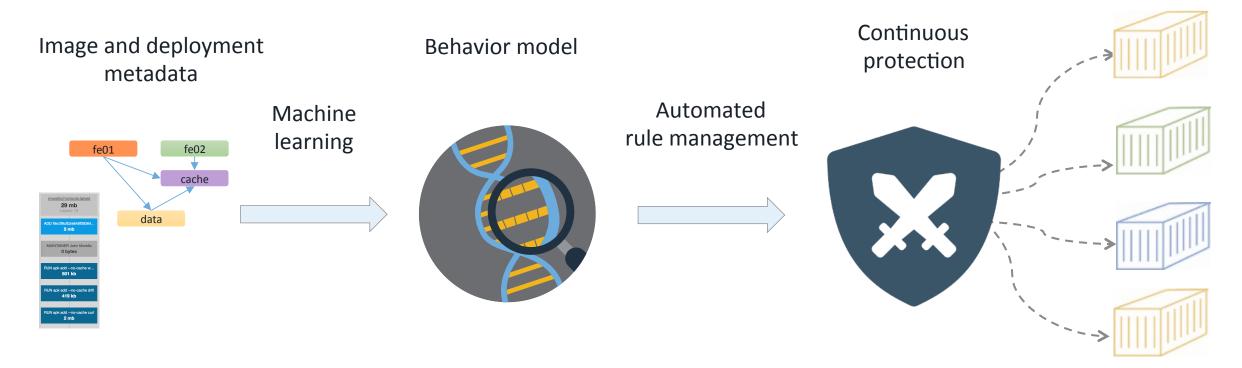
Granular control down to individual APIs with central auditing



user@host ~ \$ docker kill a83
Error response: [Twistlock] The command 'container_kill'
denied for user 'jake' by rule 'Default - Deny all'

jake	container_create	john-access-rule	cto-stable-coreos.c.cto-s	G	Feb 19, 2016 2:49:11 PM	×
jake	container_kill	Default - Deny all	cto-stable-coreos.c.cto-s	\triangle	Feb 19, 2016 2:44:56 PM	×
jake	container_inspect	john-access-rule	cto-stable-coreos.c.cto-s	G	Feb 19, 2016 2:44:51 PM	×

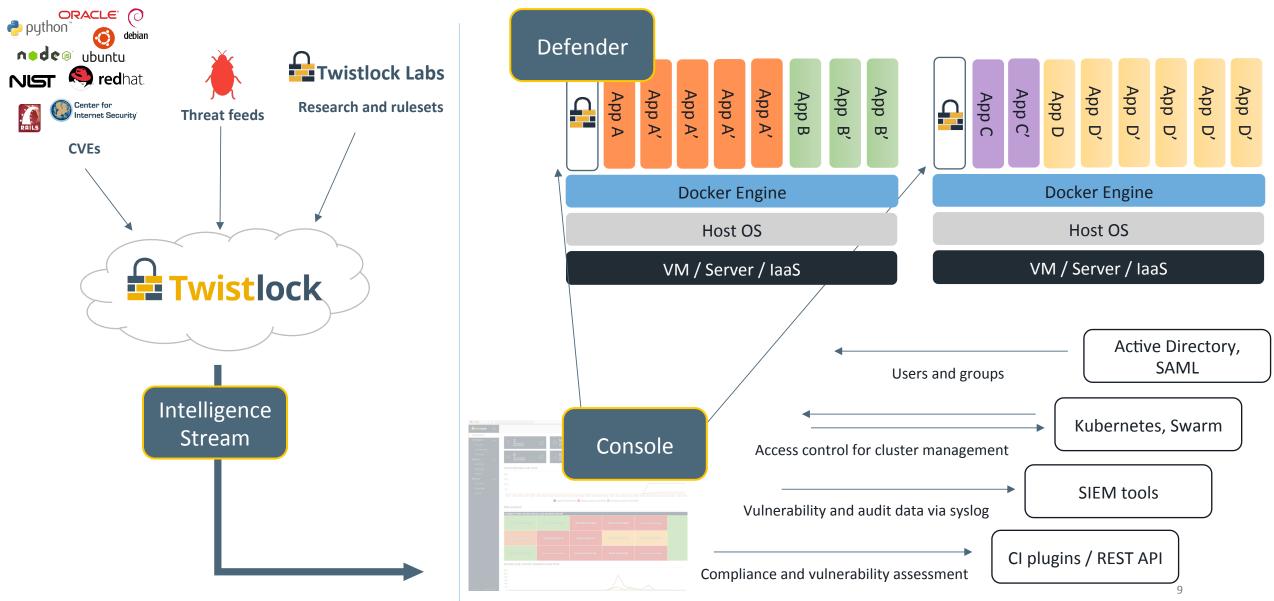
Runtime protection



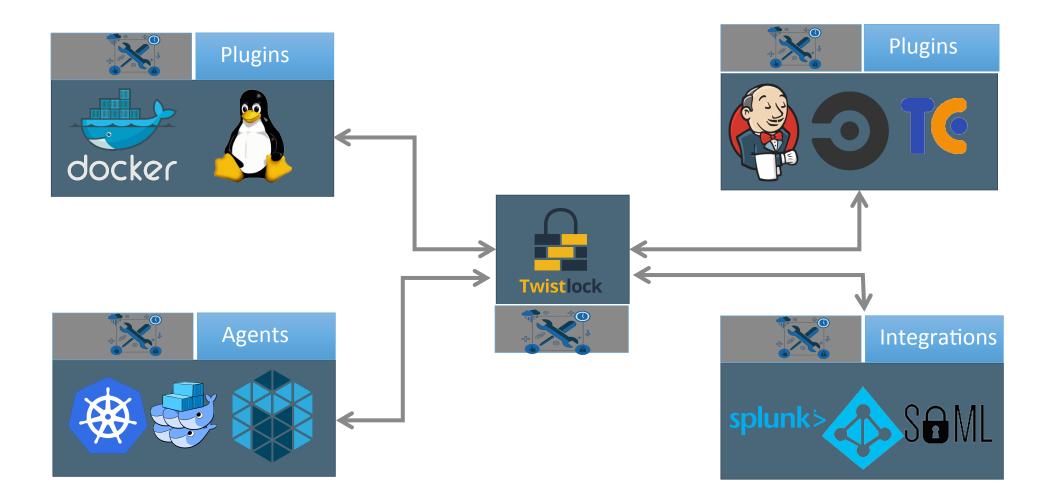
Combine knowledge of the image and how it's deployed to understand the app's 'DNA': what it *should* do

Automatically build rules to compare the DNA to what containers are *actually* doing

Twistlock's architecture



Twistlock is purpose-built for containers



Hyperscale security



Google Cloud Platform

Microsoft Azure

AWS EC2 Container Service and Registry launched December 2015

Twistlock selected as the only security launch partner

https://aws.amazon.com/blogs/aws/ec2-containerregistry-now-generally-available/ GCP Container Service and Registry launched November 2015

Twistlock selected as the only security launch partner

https://cloudplatform.googleblog.com/2015/11/ enhancements-to-Container-Engine-and-Container-Registry.html Azure Container Service launched in April 2016

Twistlock the only featured security partner

https://blogs.msdn.microsoft.com/azuresecurity/ 2016/05/26/insights-on-container-security-withazure-container-service-acs/

Why Twistlock?



Technology pioneer and innovator

- First purpose-built solution for container and micro-services
- 15 patents pending, with innovation in runtime defense and dev-to-production security

Market leader

- >30 customers across US, EMEA, APAC and nearly all verticals
- Enterprise grade global support with 24/7/365 SLA

Ecosystem leader

- Sole security launch partners for AWS and Google container registries
- Active Docker open source project contributor
- Extensive integration with CI/CD and existing enterprise security technologies
- Integration with Kubernetes, Docker Swarm, and Mesos for orchestration



Security advantages of containerized architectures

Automated profiling at build time

Protection integrated with CI/CD

Maintenance through metadata

Model always in sync with app

Manual profiling of apps

Reactive

Manual maintenance of security model Security configuration rot

Monolithic

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Contain