



http://foundation.synchro.com.br

Glaudiston Gomes da Silva Arquiteto Synchro Foundation





Mais de 300 clientes...



























Softwares crescem...



• ...e como eles crescem rápido!



Legado



• ...e como eles crescem rápido!

 Software legado é principal impedimento de atualização tecnológica.



Legado



- ...e como eles crescem rápido!
- Software legado é principal impedimento de atualização tecnológica.
- como evitar o legado?



Inovar é...



encarar riscos

• complexo

• aprender na jornada





Monolitos



Microserviços





Microserviços



Docker...

Kubernetes resolve?



Foundation



abstração arquitetural

Extensibilidade

devs com foco no negócio



Foundation



- RNF
- Padronização arquitetural
- Desenvolvedores com foco no negócio
- Multitenant



Foundation

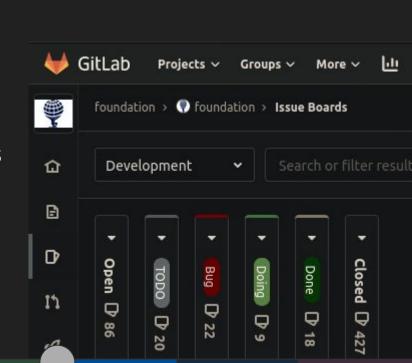




Foundation Backlog



- Auto-update
- Service Mesh
- Auto-Scaling
- Multi-Cloud
- Monitoring tools builtin
- Infra cost report/analysis tools
- OAM/DAPR
- KeyCloak
- Muito mais...







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Remote Control



Foundation Client

Foundation Cluster Docker Swarm Kubernetes OKE **EKS** Minikube



Cluster

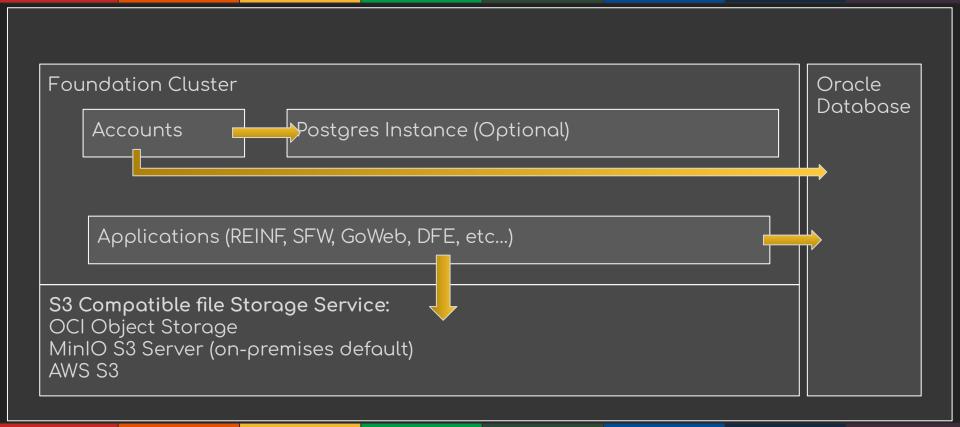


Cluster Node 1 (Host)			Cluster Node 2 (Host)		Cluster Node N (Host)	
Containers Orchestrator (Kubernetes or Docker swarm)						
			Foundation Apps (Services)			
ш	Accounts (Auth)	REINF	Core Web, backend	Queue: ActiveMQ (Optional)	Cache REDIS (Optional)	ı
ш		SFW	Core Web, backend			ı
		Other Apps				ı



Persistence

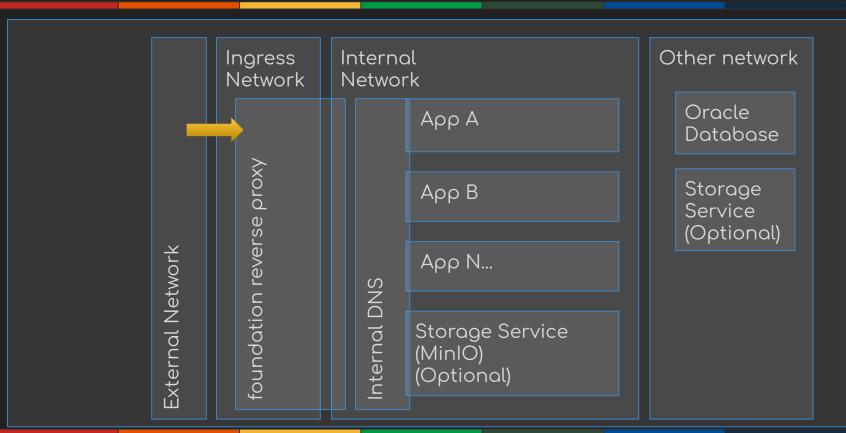






Networking

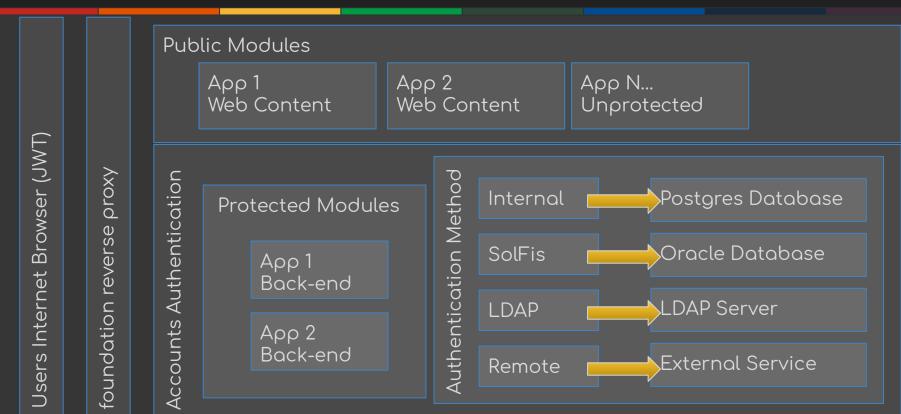






Authentication

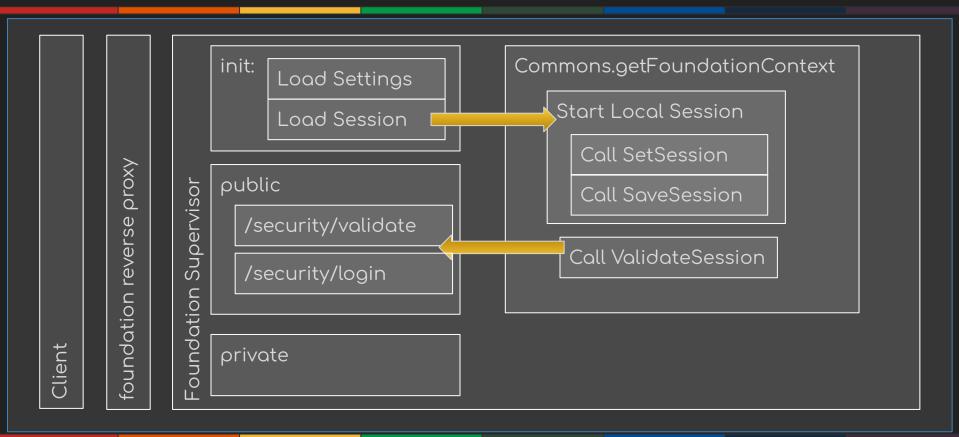






Auth

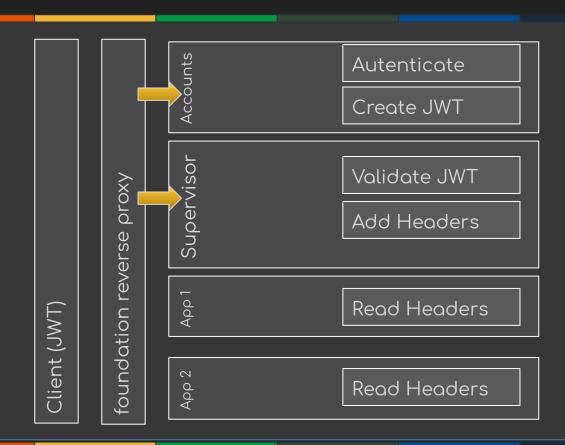






SSO







<u>Tenants</u>



Browser (JWT) proxy reverse Users Internet foundation

Postgres Internal Database Authentication Method **Protected Modules** Oracle SolFis Database Αρρ 1 Authentication Back-end LDAP LDAP Server Accounts **Арр 2** Back-end External Remote Service



License Control



Foundation License Control



Monitoring

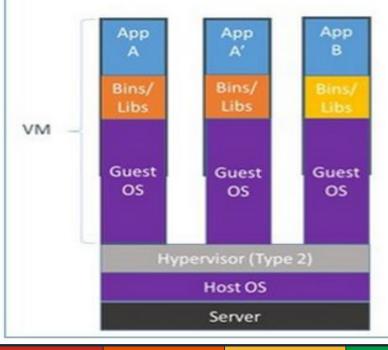


Foundation Monitoring

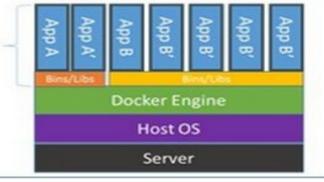




Containers vs. VMs



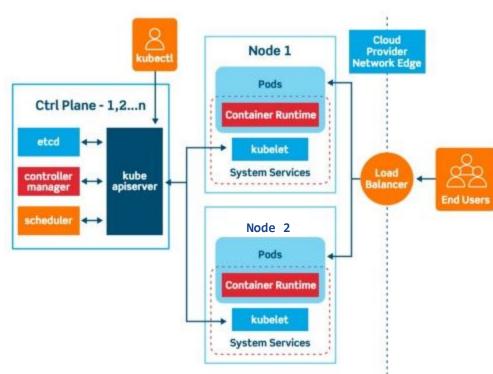
Containers are isolated, but share OS and, where appropriate, bins/libraries



Container



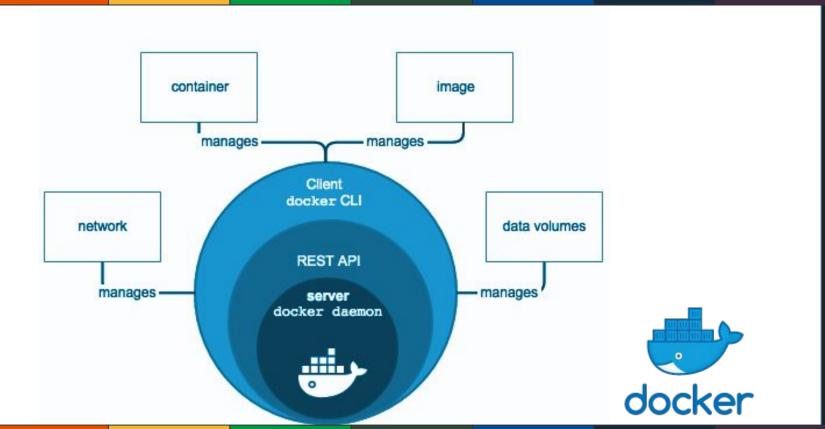




https://medium.com/dev-genius/the-kubernetes-cluster-architecture-simplified-3c4a5fb41d449

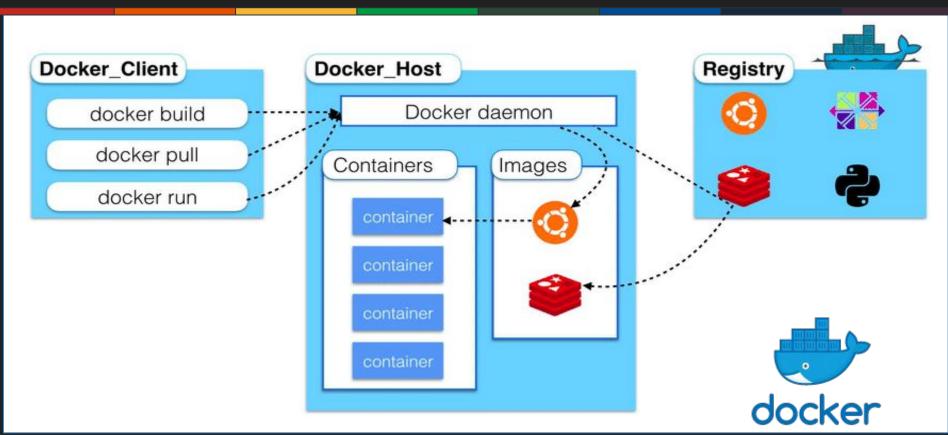






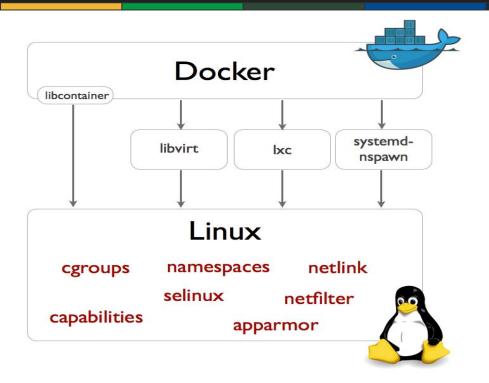
















More info



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