in addition to Building with Docker Scaling with Docker Kubernetes presented by Borislav Borislavov





kubernetes

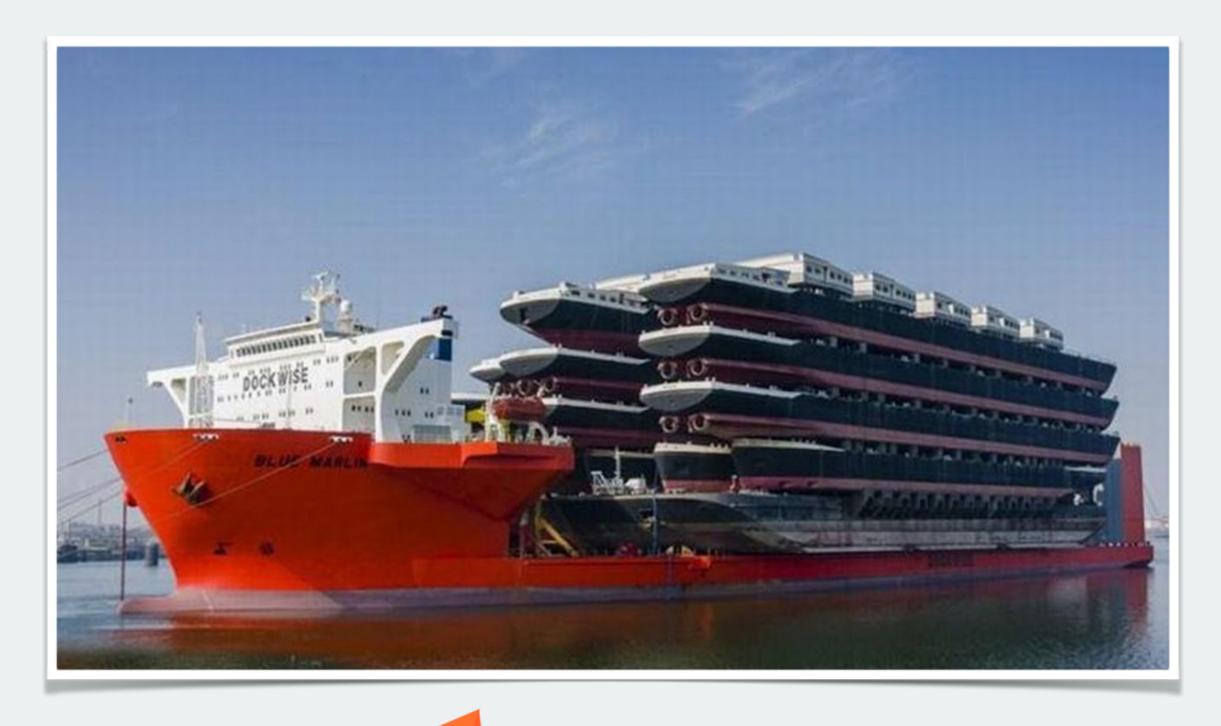


How others are doing it.





How we are doing it.





What is Kubernetes?

Kubernetes: a system for managing containerized applications in a cluster. Intended to make deploying containerized/microservice-based applications easy but powerful.

Pods: smallest deployable units that can be created, scheduled, and managed.

Replication Controllers: manage the lifecycle of pods. They ensure that a specified number of pods are running at any given time, by creating or killing pods as required.

Services: Services provide a single, stable name and address for a set of pods. They act as basic load balancers.



What are Kubernetes building blocks?

Master: Central server, managing all the minion nodes - master server.

Minion: Computing node which hosts all the containers - hypervisor server.

Kubelet: You can think of it as a process watcher like supervisord,

system resources, but focused on containers.

Kube-Proxy: Port-Mapping, Docker-Linking, Service-Talking, All dash verbs:)

Flannel: Software defined network.

API: RESTFull API for interacting with the system.

Scheduler: a policy-rich, topology-aware, workload-specific function that

significantly impacts availability, performance, and capacity.

Controller: Supervisor of the Replication Controller.

Hint: Scheduler - Agent - Supervisor.

API Server Scheduler Controller Kubelet Kube-proxy Flannel

Master Minion

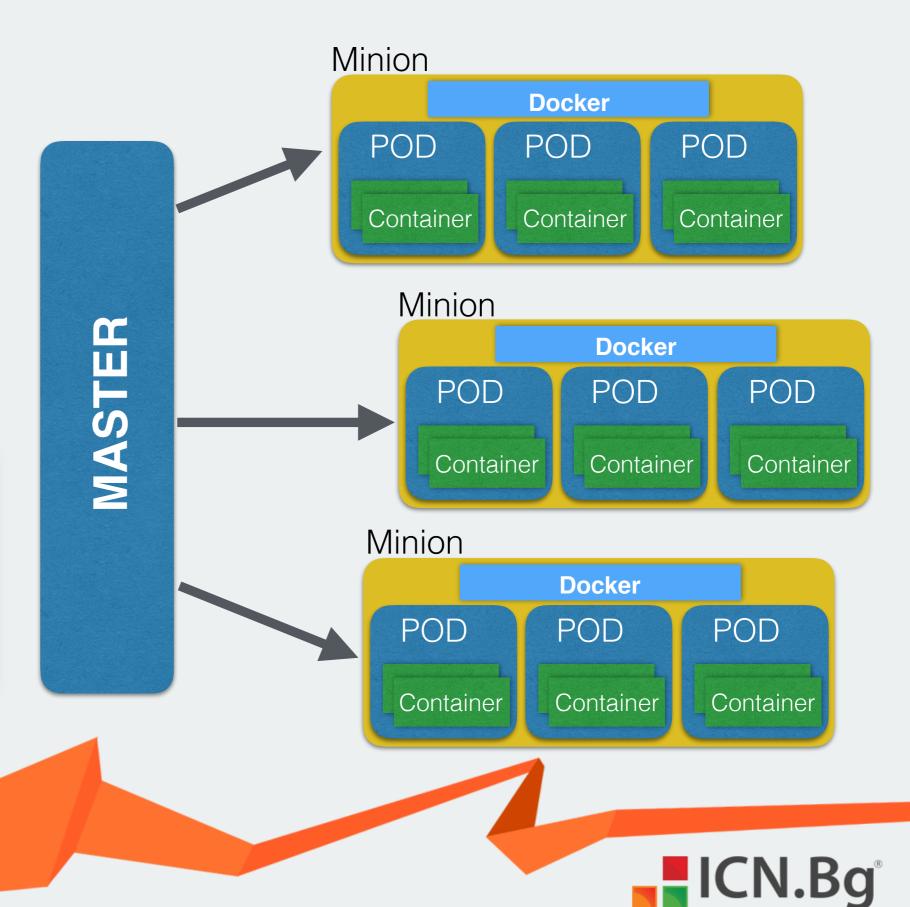
How it works?

Control Panel

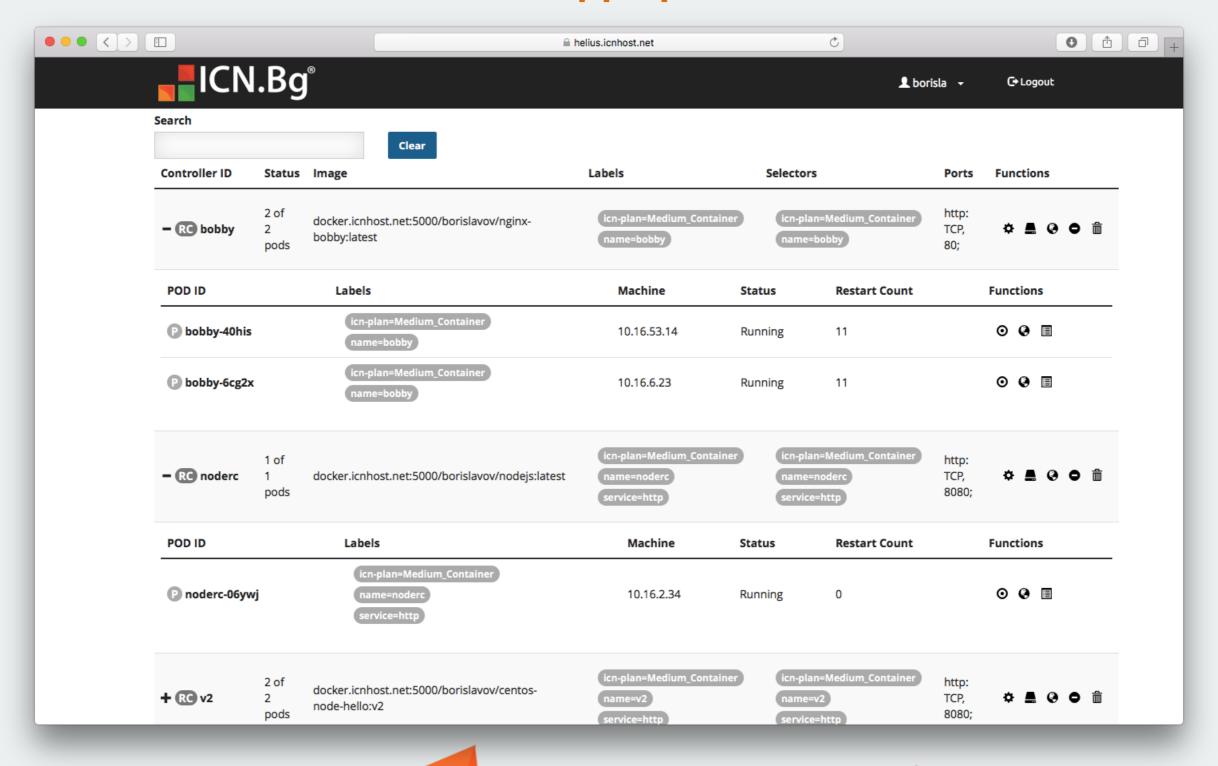


Command Line Interface





ICN.BG Apps platform





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