

Benefits of taking the road less traveled with containers infrastructure

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SREcon Americas - Brooklyn 2019

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Marathon on Mesos

- Hackathon
- Explore
- Early adopters
- Missing “enterprise” features



Marathon on Mesos

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- Explore
- Early adopters
- Missing “enterprise” features

Openshift

- Production
- Hype and promises
- Feature rich


SAME SAME
BUT DIEFERENT

Replicability.



Replicability.

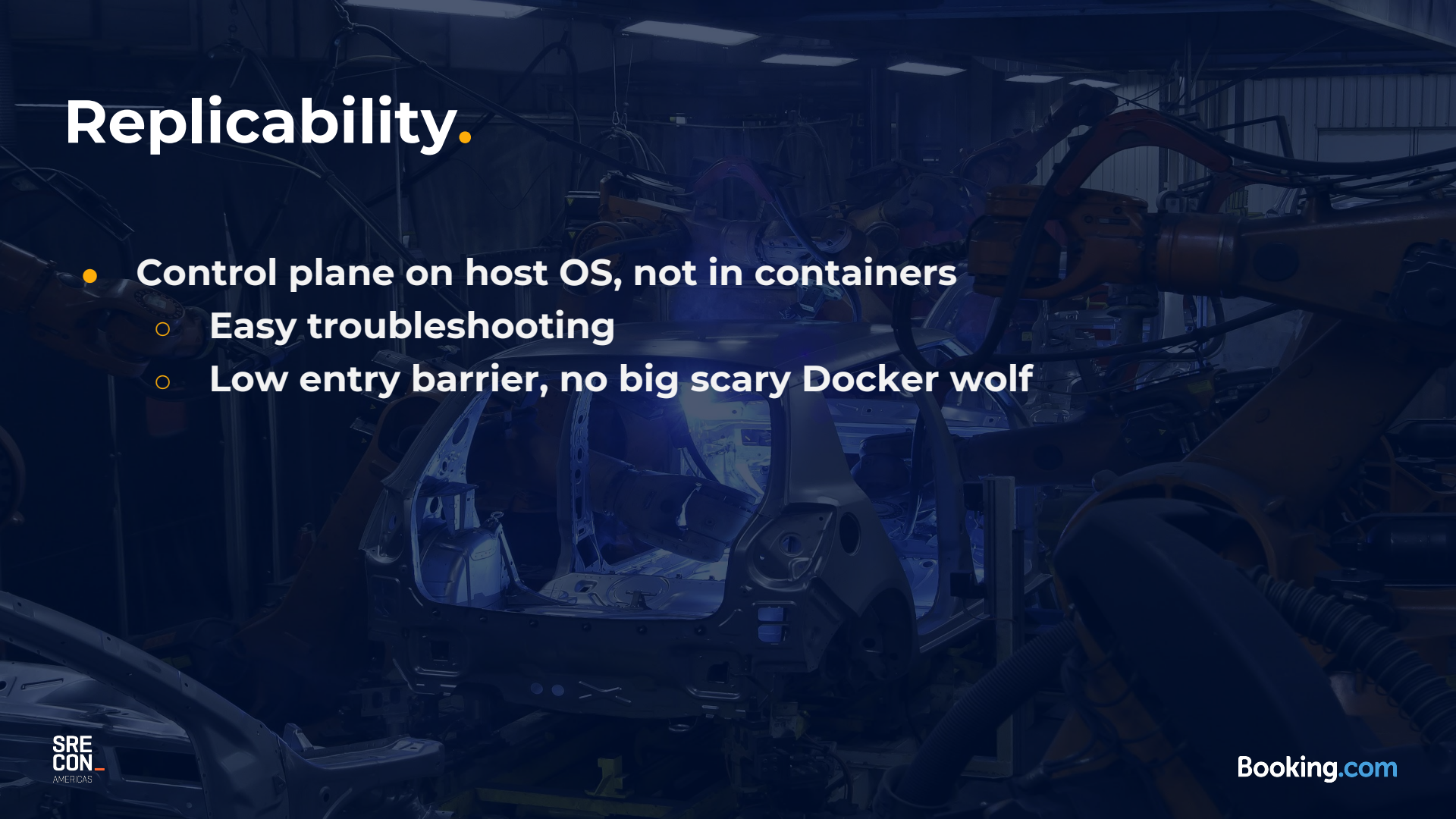


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Replicability.

- Control plane on host OS, not in containers
  - Easy troubleshooting
  - Low entry barrier, no big scary Docker wolf



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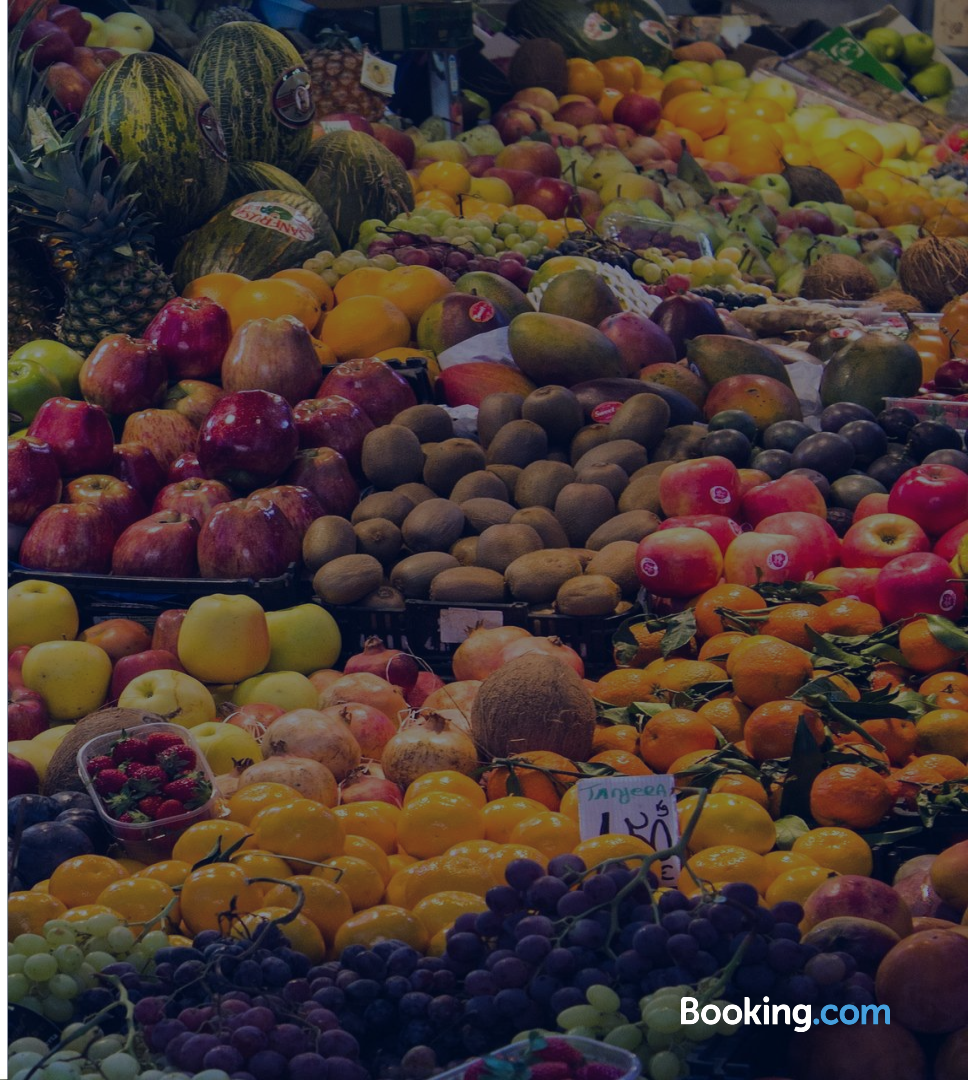
Replicability.

- Control plane on host OS, not in containers
  - Easy troubleshooting
  - Low entry barrier, no big scary Docker wolf
- Puppet recipe (`kubectl apply` if you must)
- Make components HA
  - leader elector wrapper


Fruteria Do Bolhão
PEGOS CLAROS
MARO
MARO
Ameixa
Tangera

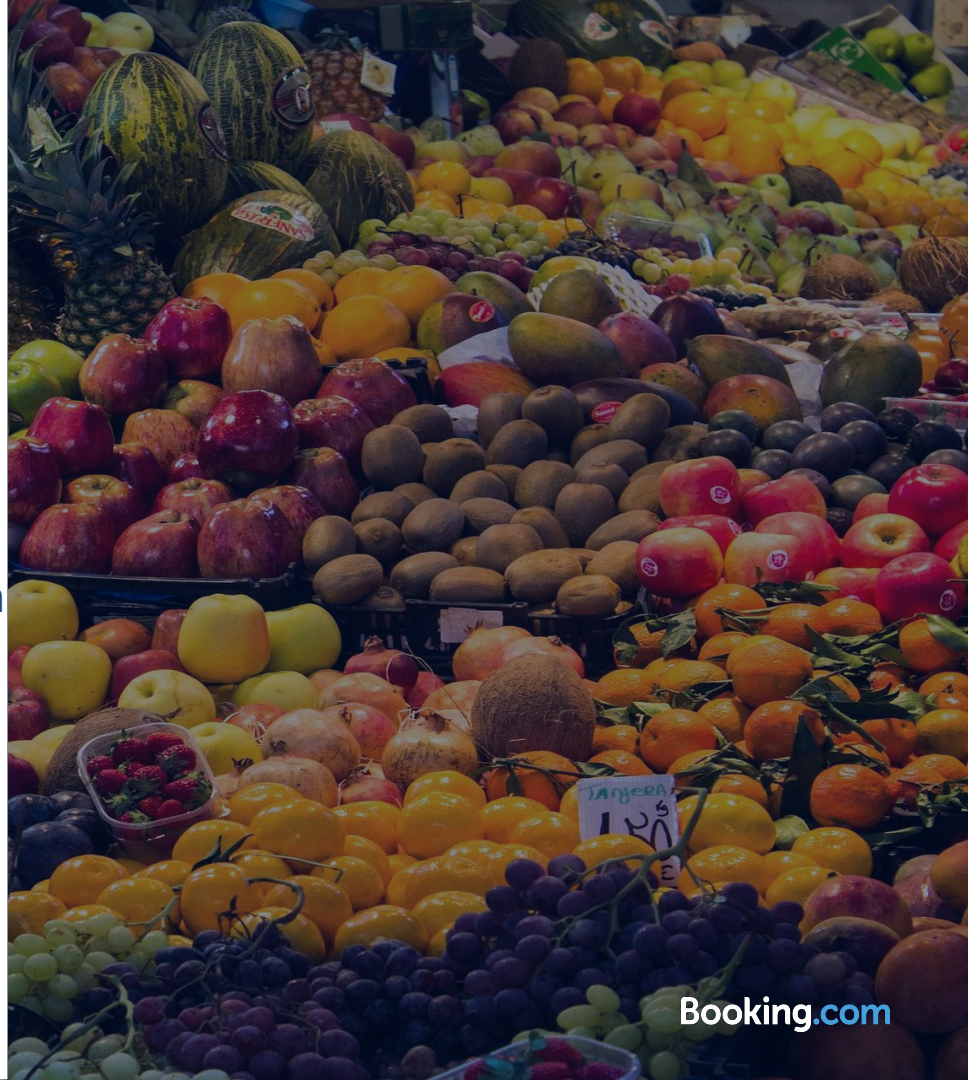
Feature set.

- Project isolation (ovs)
- Directly addressable pods



Feature set.

- Project isolation
- Directly addressable pods
- No shared resources between failure domains



Observability.

- Relevant SLOs
  - Pod startup time w/o image pull



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  - Pod startup time w/o image pull
- Kube-probe
  - Basic functionality
  - Advanced integrations



Observability.

- Relevant SLOs
  - Pod startup time w/o image pull
- Kube-probe
  - Basic functionality
  - Advanced integrations
- Visibility and transparency
  - Infra status dashboard
  - RFOs
  - Service owners alerts




Beware!



Self learning.

- Docs
- Trainings

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Recap.

- Replicability (control plane, puppet)
- Feature set (no kube-proxy, addressable pods)
- Observability (probes, RFOs, alerts)
- Packaged technologies
- Self learning



Thank you!

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