

# Monitoring Nodeless k8s with Prometheus

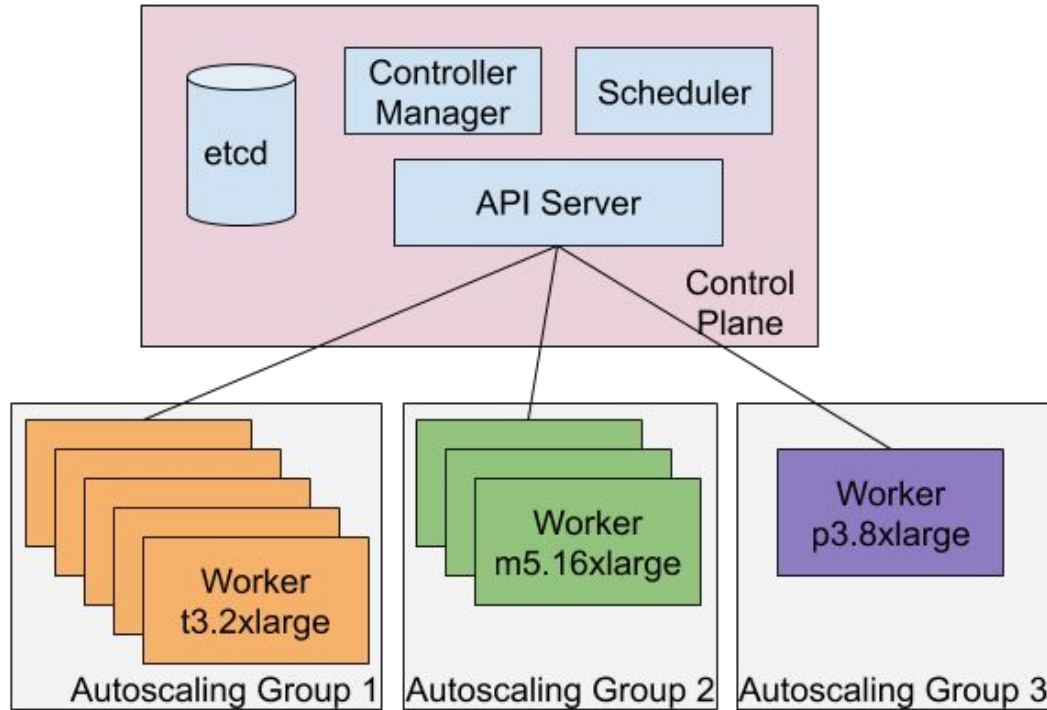
# Agenda

- Bio
- Nodeless k8s
- Nodeless k8s + Prometheus
- Demo
- Takeaways
- Q & A

Do you use Kubernetes on public cloud?

K8s cluster capacity planning on public cloud is hard

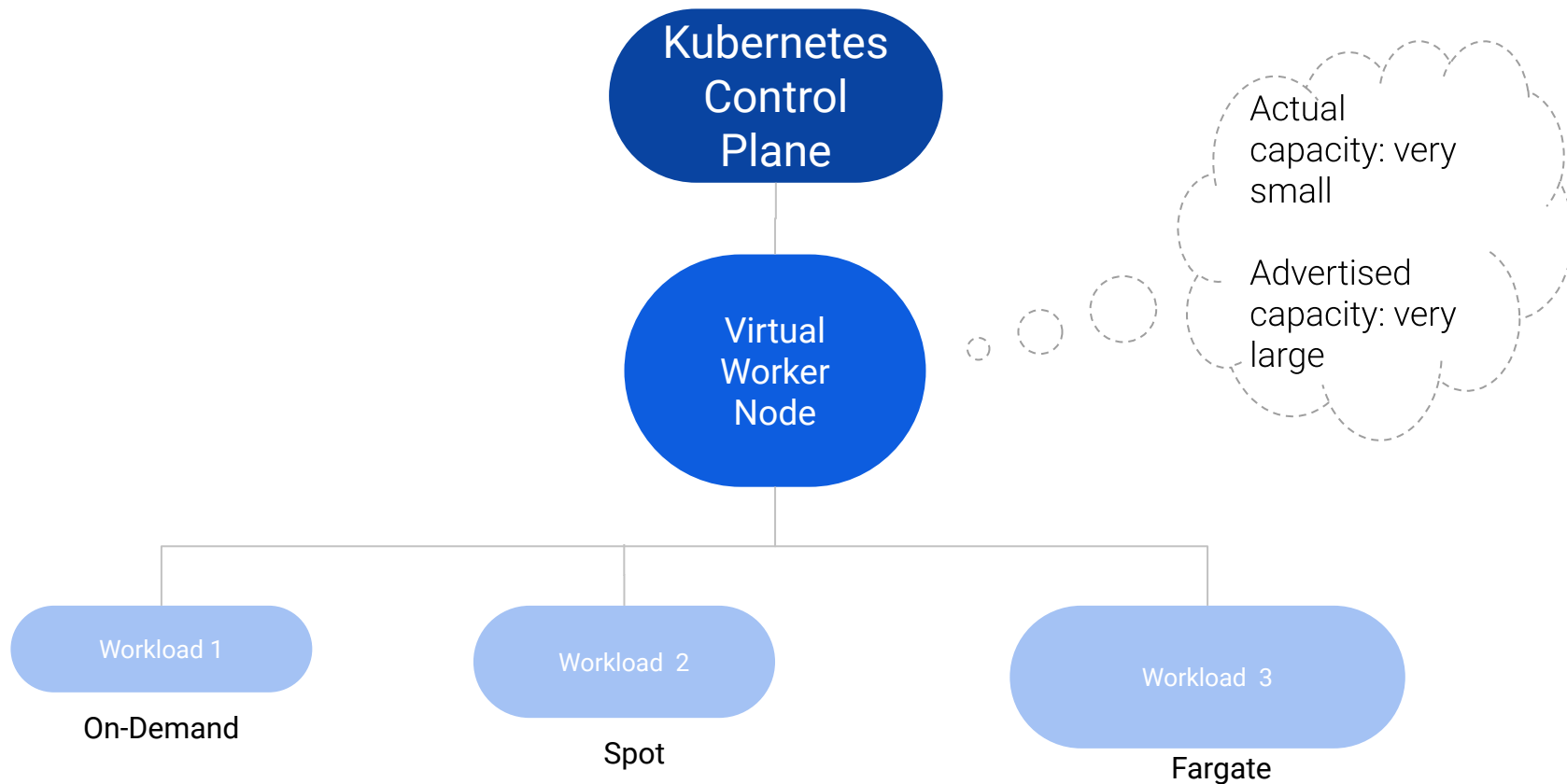
# Kubernetes Cluster



# Worker node capacity planning woes

- Provision too nodes
  - Waste resources, money
- Provision too few nodes
  - Pods won't run
- Rolling updates, pod autoscaling, jobs
  - Need capacity headroom

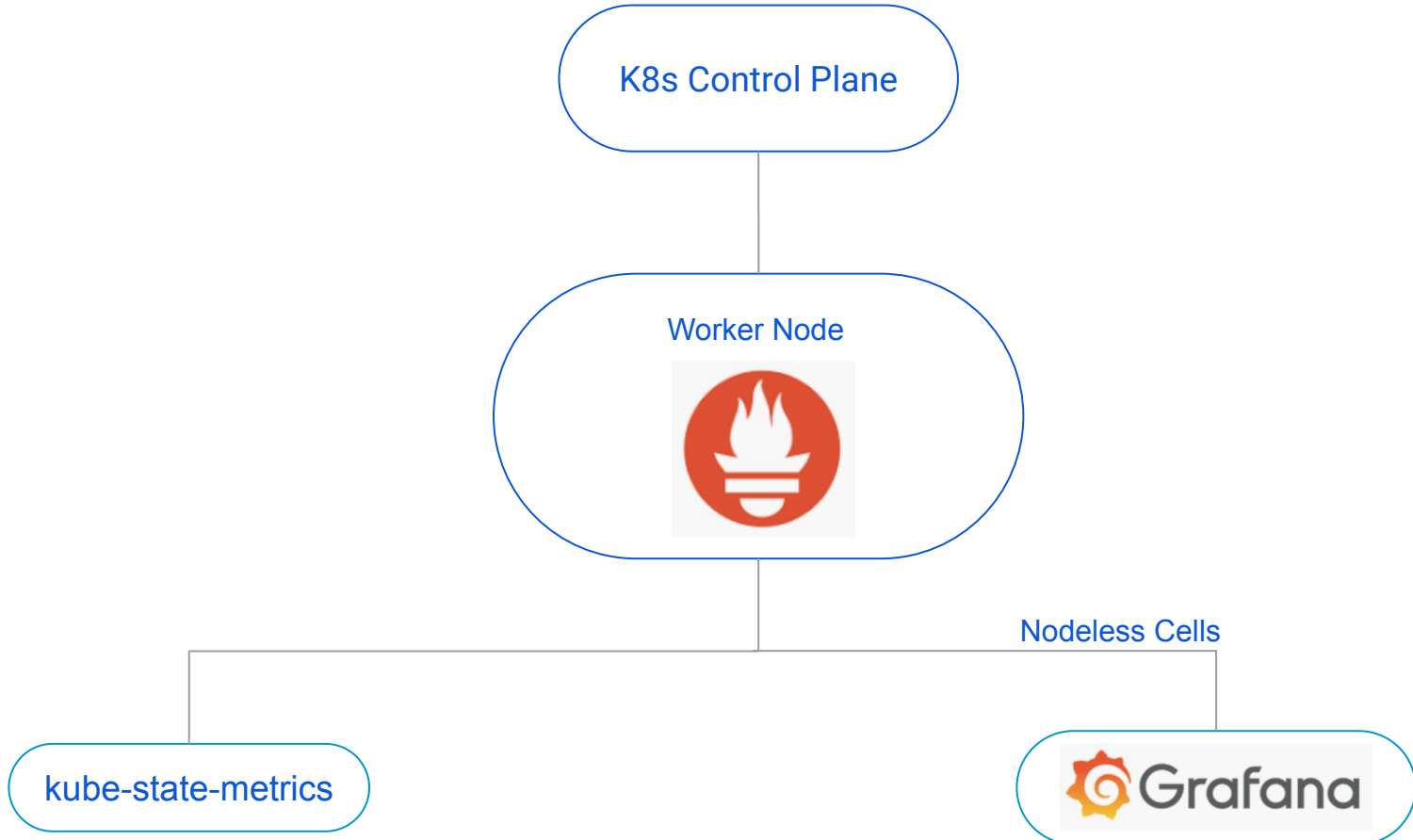
# Nodeless Kubernetes

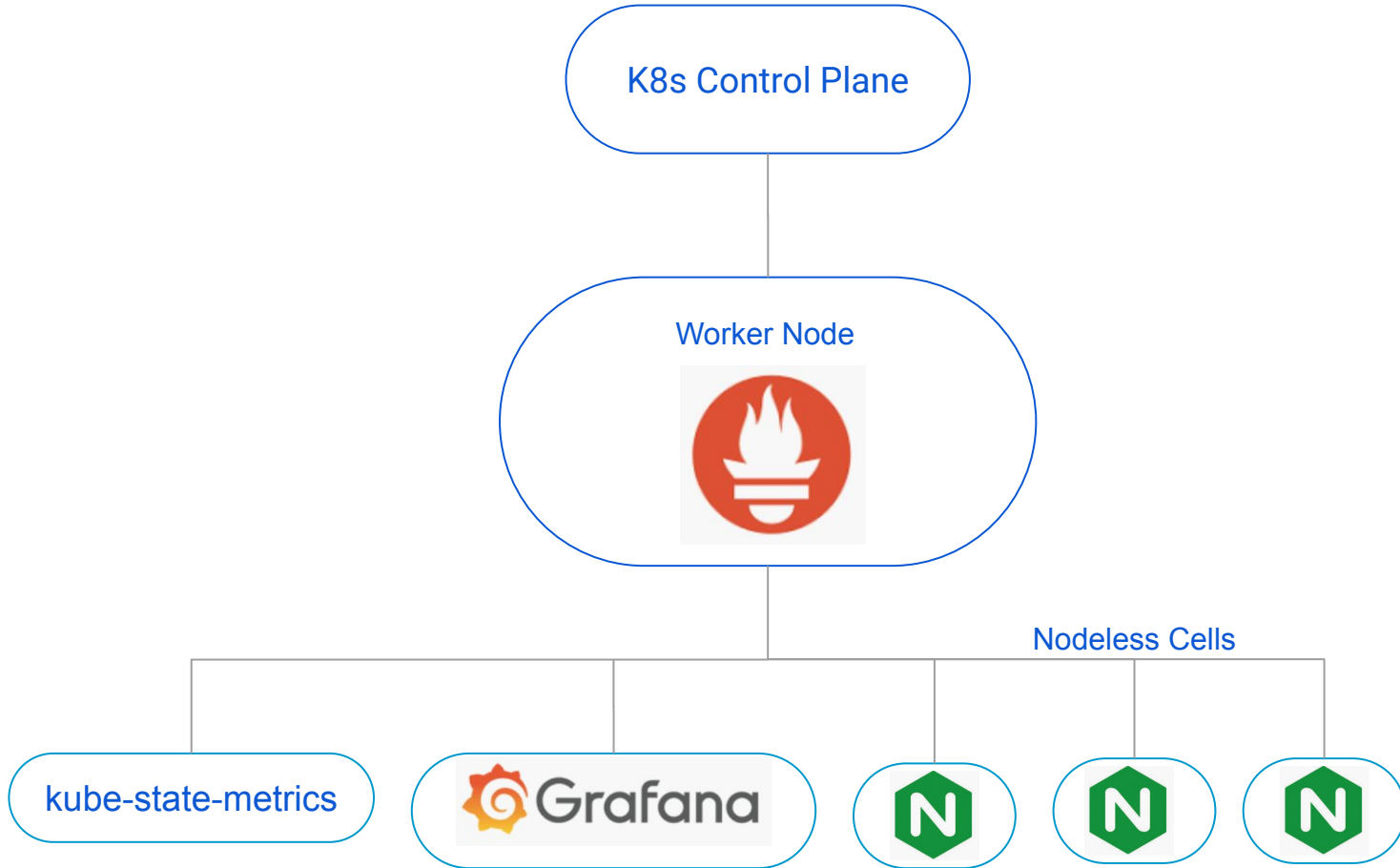


Can i monitor Nodeless k8s apps with Prometheus?



Demo!





# Takeaways

- Kubernetes cluster capacity planning is hard
- Nodeless k8s is a simple, easy way to consume k8s on public cloud
- Prometheus + Grafana are a great fit for monitoring Nodeless k8s apps

# Resources

- Try
  - <https://github.com/elotl/kubeadm-aws>
  - <https://github.com/elotl/eks-milpa>
  - <https://github.com/elotl/nodeless-prometheus-tutorial>
- Read
  - <https://jpetazzo.github.io/2019/02/13/running-kubernetes-without-nodes-with-kiyot/>
  - <https://medium.com/elotl-blog>

# Acknowledgements

- PromCon2019 EU organizers
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- Audience - thank you!

# Q&A

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