



Architecting with GKE

Get ready for Anthos

Let's deploy on live

Agenda

- About me.
- Session context.
- What is GKE & architect?
- Why & How to learn architect?
- Demos.
- What is next?

Manikandan

Impressed by Cloud
Catalysed by Community

Twitter / LinkedIn **@manikandank276**

- Organizer of GDG Cloud Chennai
- #GCPChamp
- Volunteer of GDG Chennai, IUC Chennai, WP Chennai
- Practicing as GCP Architect for 02+ years and solution analyst for 10+ years.

Context

Abstract k8s through GKE architect



What is GKE?

Google Kubernetes Engine

What is GKE architect?

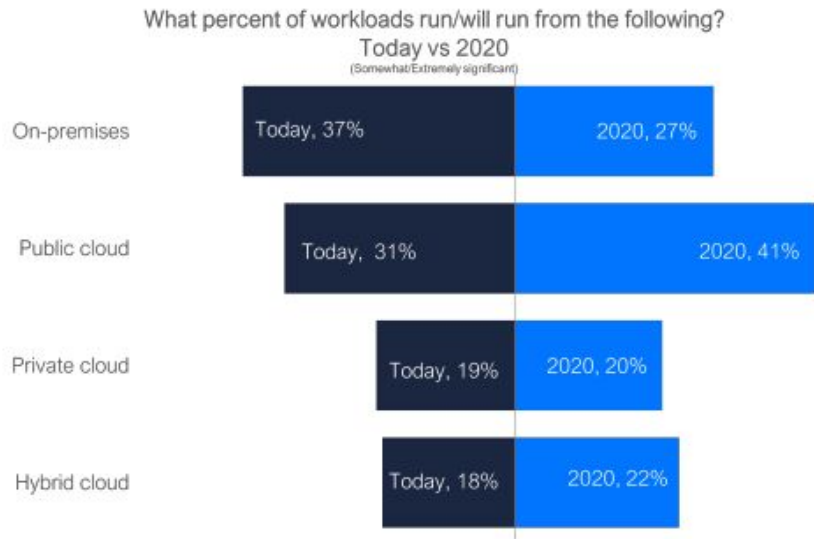
Solve business use case

Why to learn architect?



Cloud Vision 2020: The Future of the Cloud

Where Will Workloads Run (Today versus 2020)



Why to learn architect?

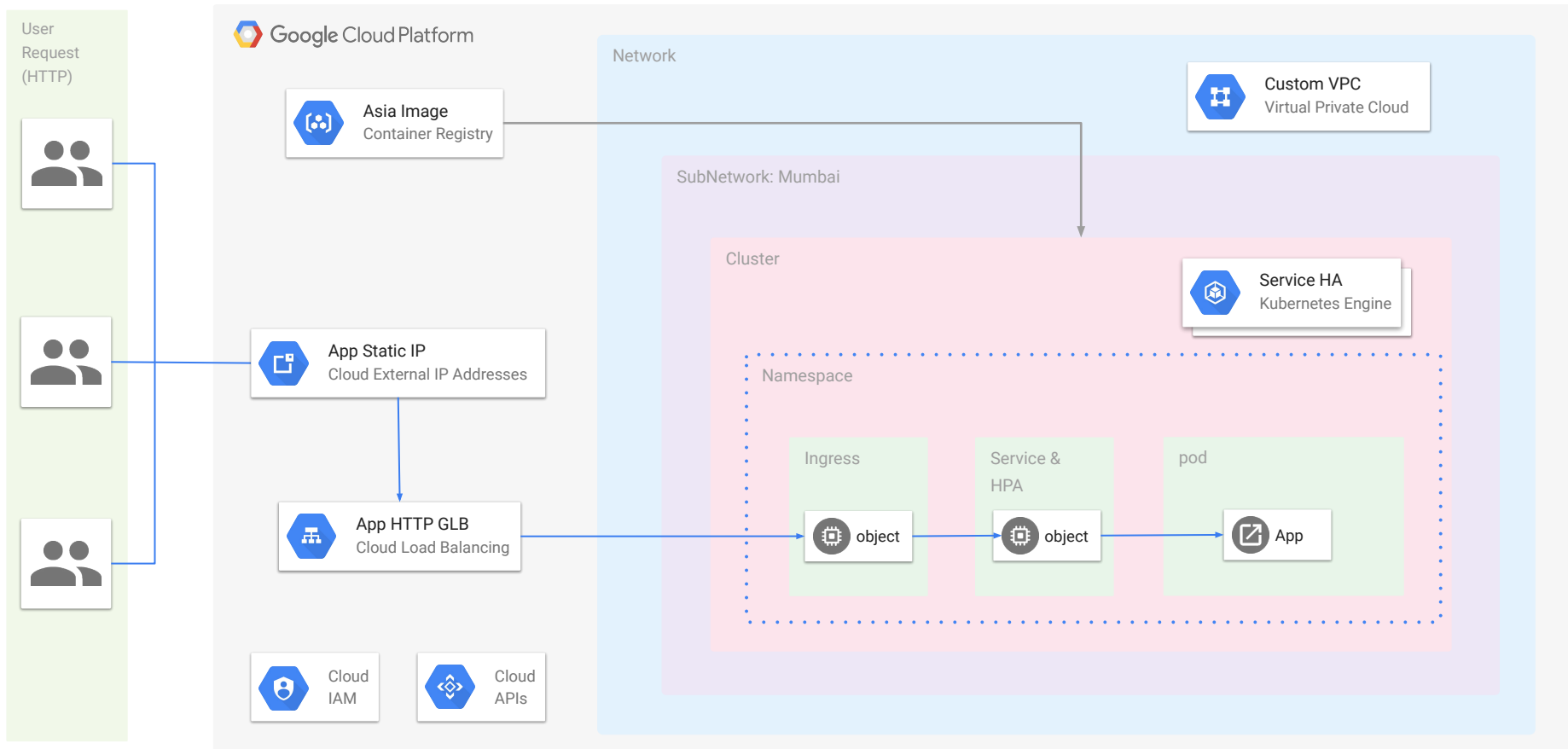
- 83% of enterprise workloads will be in the cloud by 2020.
- 94% of enterprises already use a cloud service.
- 30% of all IT budgets are allocated to cloud computing.
- 66% of enterprises already have a central cloud team or a cloud center of excellence.
- 50% of enterprises spend more than \$1.2 million on cloud services annually.

How to learn architect?

Practice

Demo 1

Deploy GKE architect



Demo 2

User load

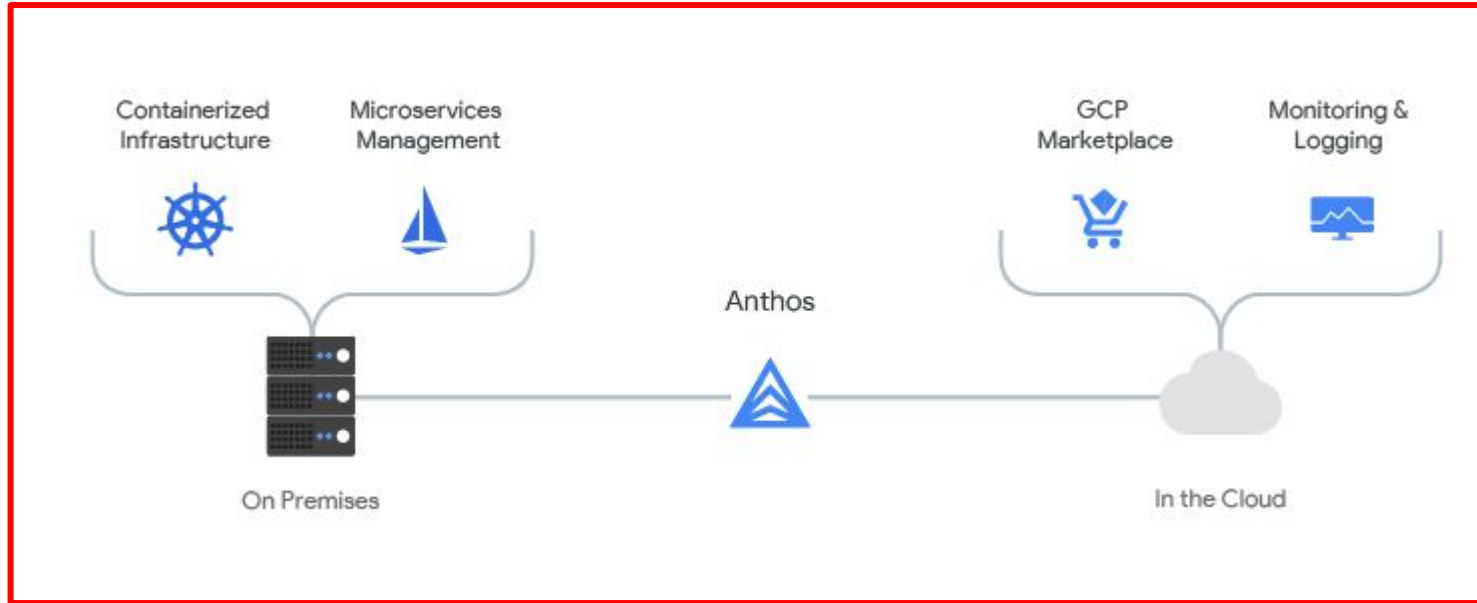
Demo 3

Pod recreation

Demo 4

Node failure

Next: Get ready for Anthos



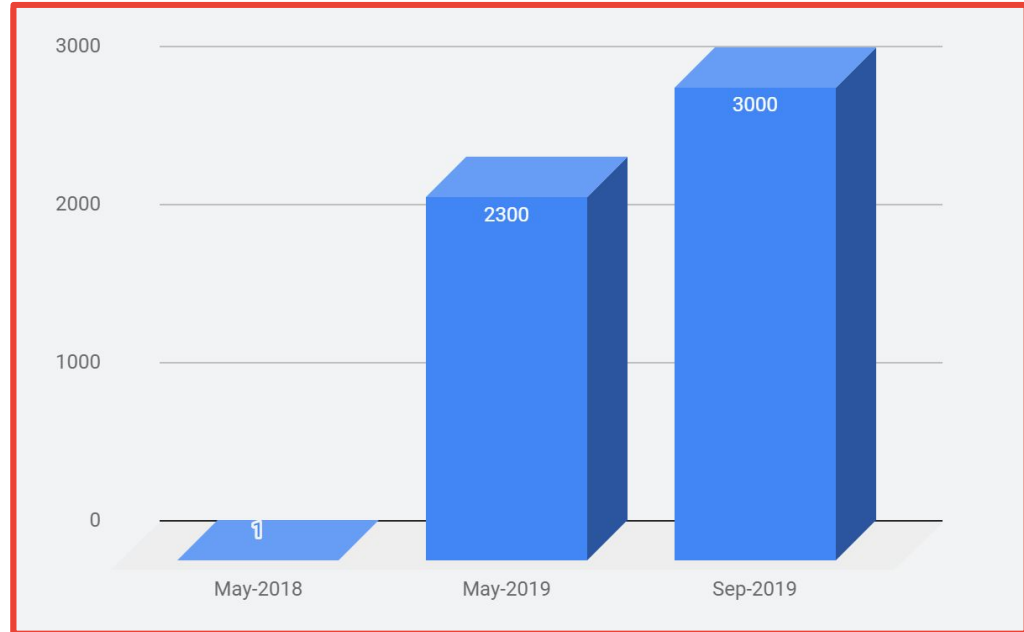


GDG Cloud Chennai



- Community strength: **3000+**
- Avg growth rate: **6 gClouders / day**
- Avg meetup rating: **4.5+ / 5**
- No of meetup: **11**
- No of self study group: **3**
- No of poll: **3**
- Attendees achievement: **70+**
 - Certification: 4
 - Specialization: 15
 - Course: 20+
- No of discussion: **170+**

Total gClouders



See achievement @ <https://bit.ly/GdgCloudChennaiAchievement>

Reference

- gcloud ⇒ <https://cloud.google.com/sdk/gcloud/reference/>
- Cloud vision 2020
 - <https://www.logicmonitor.com/wp-content/uploads/2017/12/LogicMonitor-Cloud-2020-The-Future-of-the-Cloud.pdf>
 - <https://hostingtribunal.com/blog/cloud-adoption-statistics/>
- Google trend
 - <https://trends.google.com/trends/explore?q=%2Fg%2F11b7lxp79d.%2Fm%2F01hyh>
- Anthos ⇒ <https://cloud.google.com/anthos/>
- Anthos Migrate Real-World Customer Scenarios (Cloud Next '19)
 - <https://www.youtube.com/watch?v=immGpp3DFMU&t=83s>

Reference (cont)

- k8s
 - <https://kubernetes.io/docs/tutorials/kubernetes-basics/>
- k8s HPA
 - <https://medium.com/@dstrimble/kubernetes-horizontal-pod-autoscaling-for-local-development-d211e52c309c>
 - <https://kubernetes.io/docs/tasks/run-application/horizontal-pod-autoscale-walkthrough/>

Thank you



Google Cloud

Lets Learn Google Cloud together

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