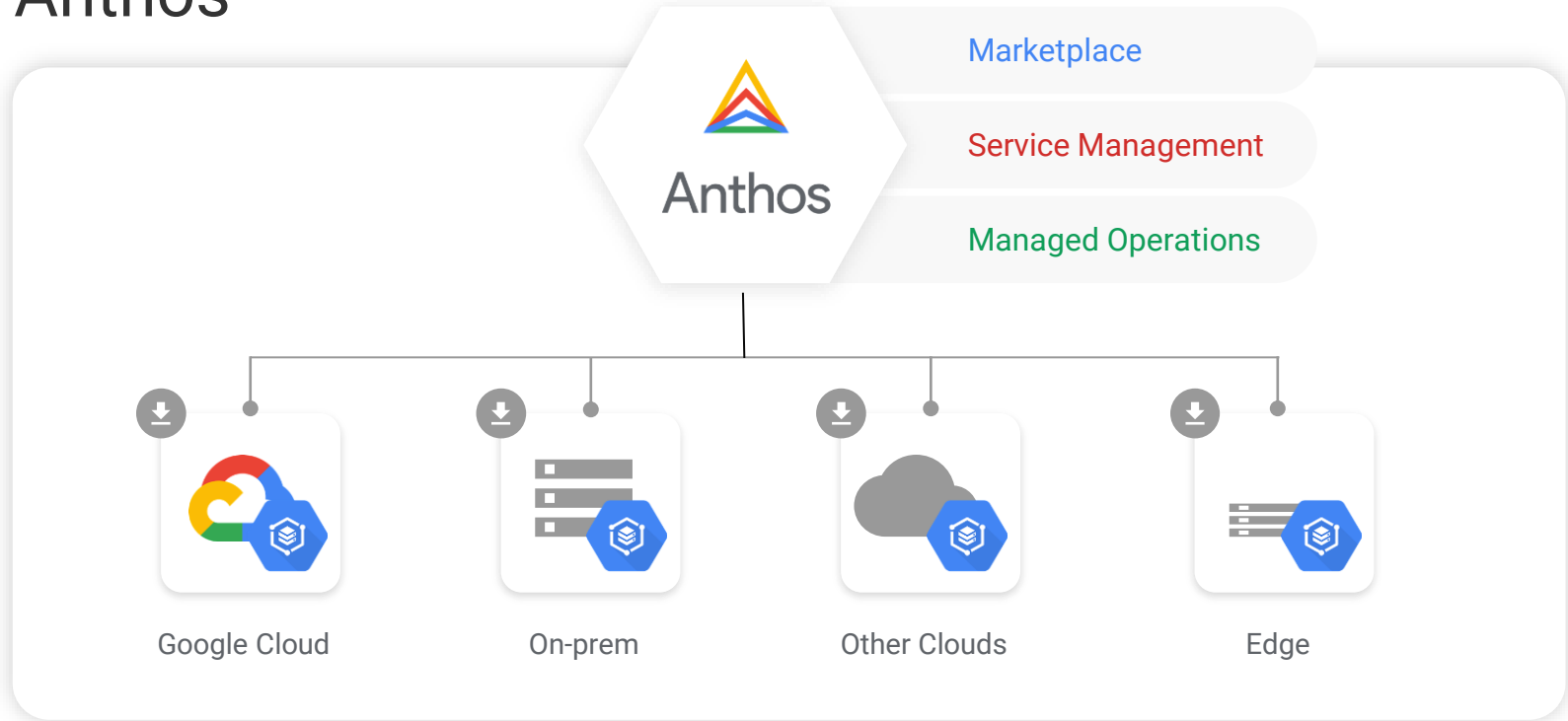


# Modernize your Windows apps using Anthos and GKE

Venkat Gattamneni, Product Manager  
Madhu Yennamani, Product Manager

**DEVOPS  
WORLD**  
by CloudBees

# Anthos



# GKE - Kubernetes the **Easy Way**

- ✓ Start a cluster with one-click
- ✓ View your clusters and workloads in a single pane of glass
- ✓ Google keeps your cluster up and running

The screenshot displays the Google Cloud Platform (GCP) console interface for creating a new Kubernetes Engine cluster. The top navigation bar includes the GCP logo, 'K8S Garage', and a search icon. The left sidebar shows the 'Kubernetes Engine' menu with options for 'Kubernetes clusters', 'Workloads', 'Discovery & load balancing', 'Configuration', and 'Storage'. The main content area is titled 'Create a Kubernetes cluster' and contains the following configuration fields:

- Name:** cluster-1
- Description (Optional):** (Empty text box)
- Location:** Zonal (selected), Regional (beta)
- Zone:** us-central1-a
- Cluster Version:** 1.8.7-gke.1 (default)
- Machine type:** 1 vCPU, 3.75 GB memory

At the bottom of the sidebar, there is a 'Cloud Launcher' section with a navigation arrow.

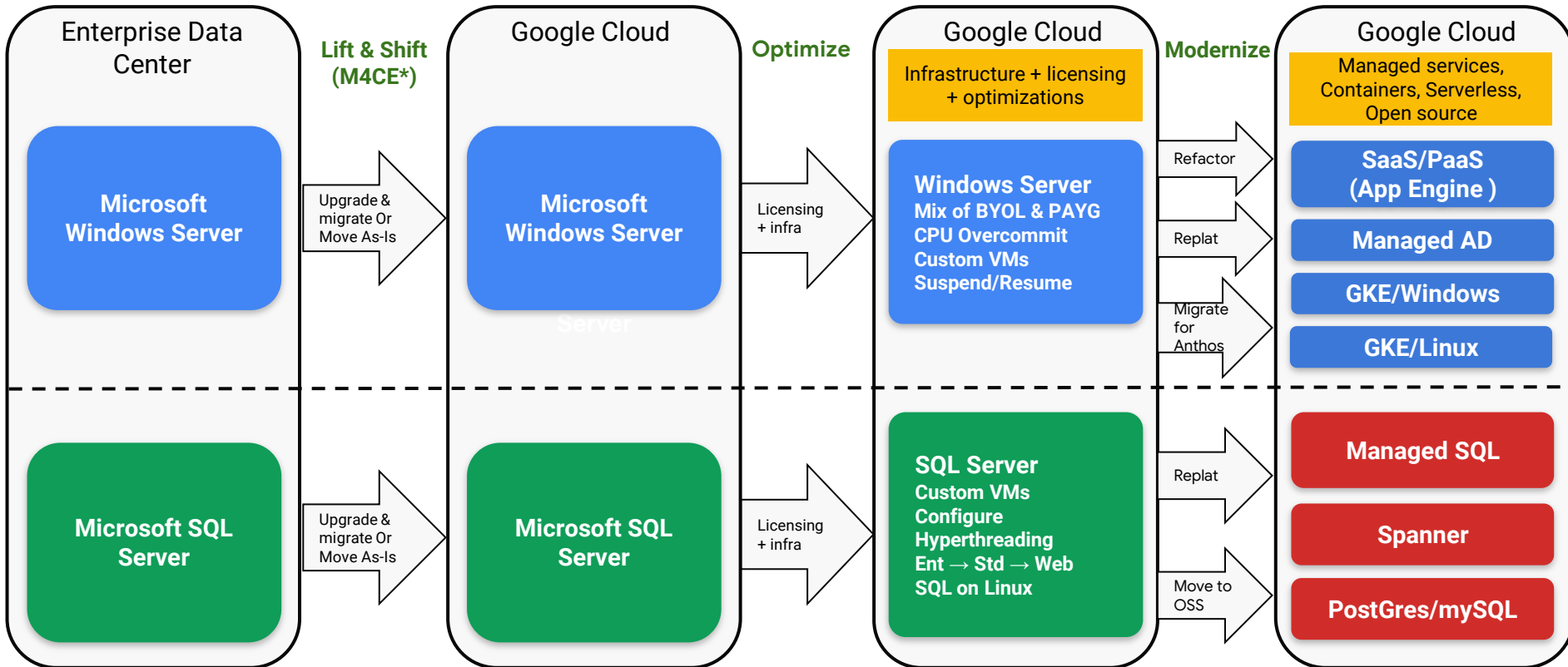


*“We’re committed to a first- class  
experience for Microsoft  
workloads on Google Cloud”*

**Urs Hölzle**  
**Senior Vice President,**  
**Technical Infrastructure**

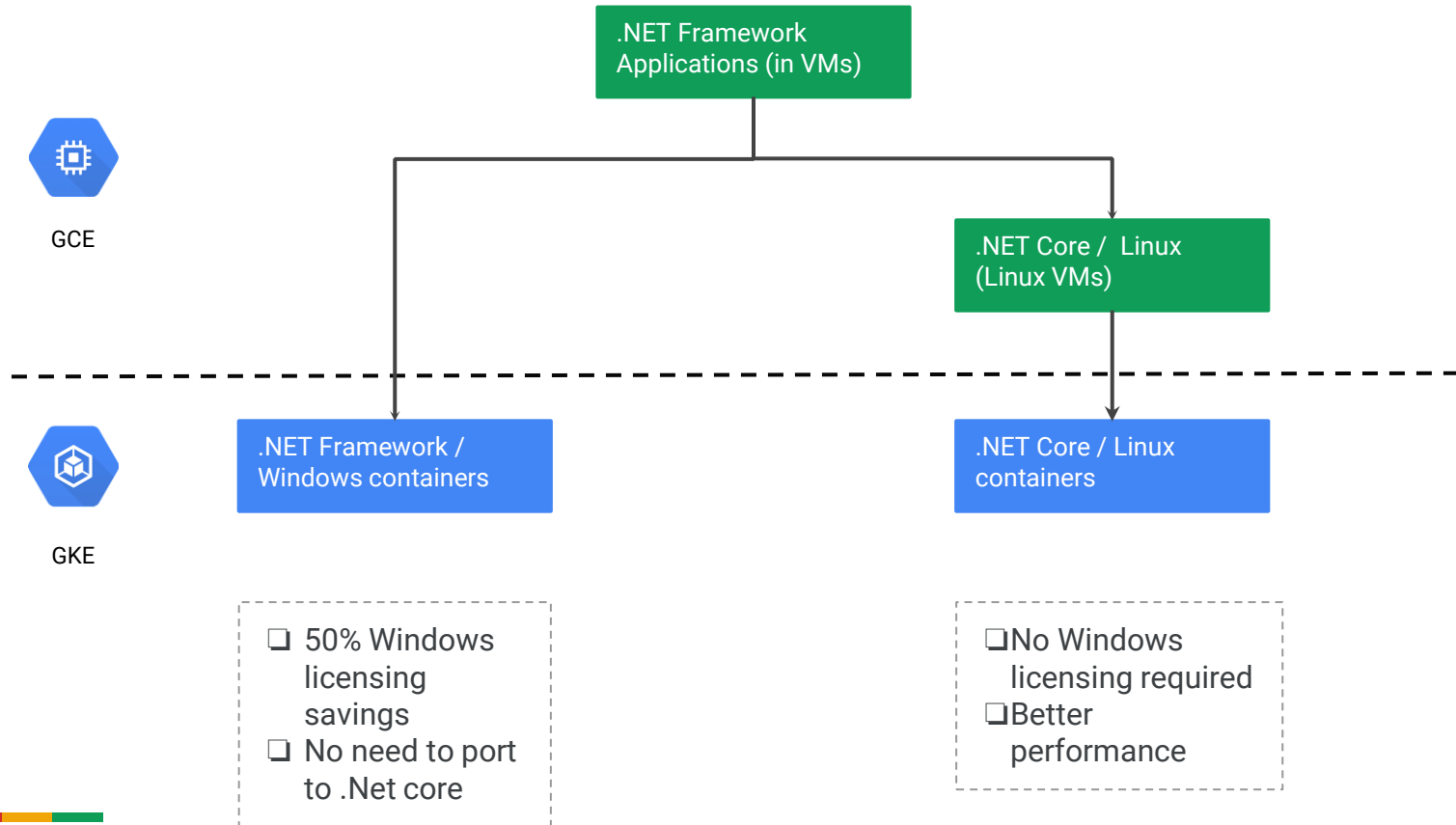


# Phased approach for migrating & modernizing MS apps

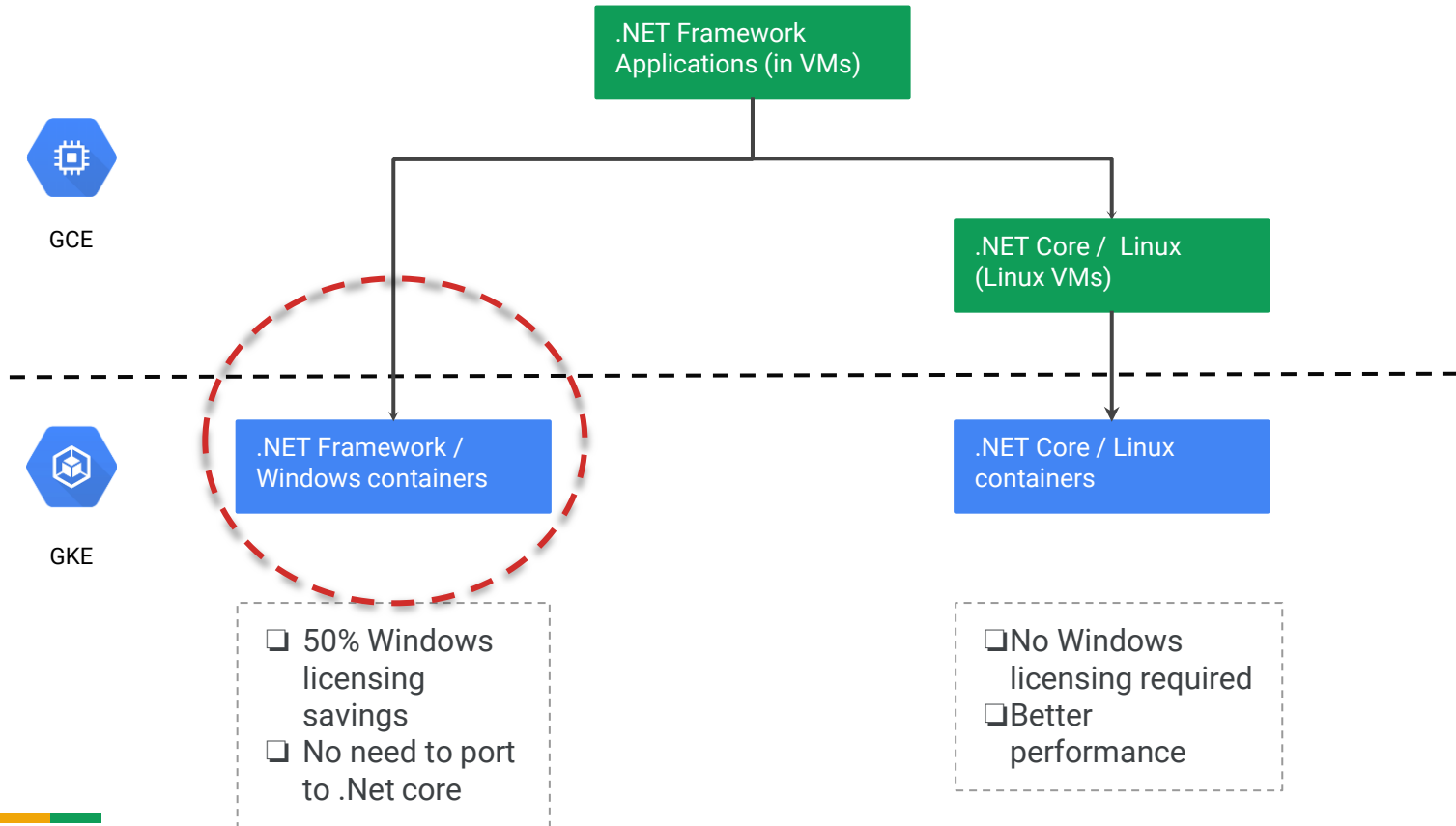


\* Migrate for Compute Engine

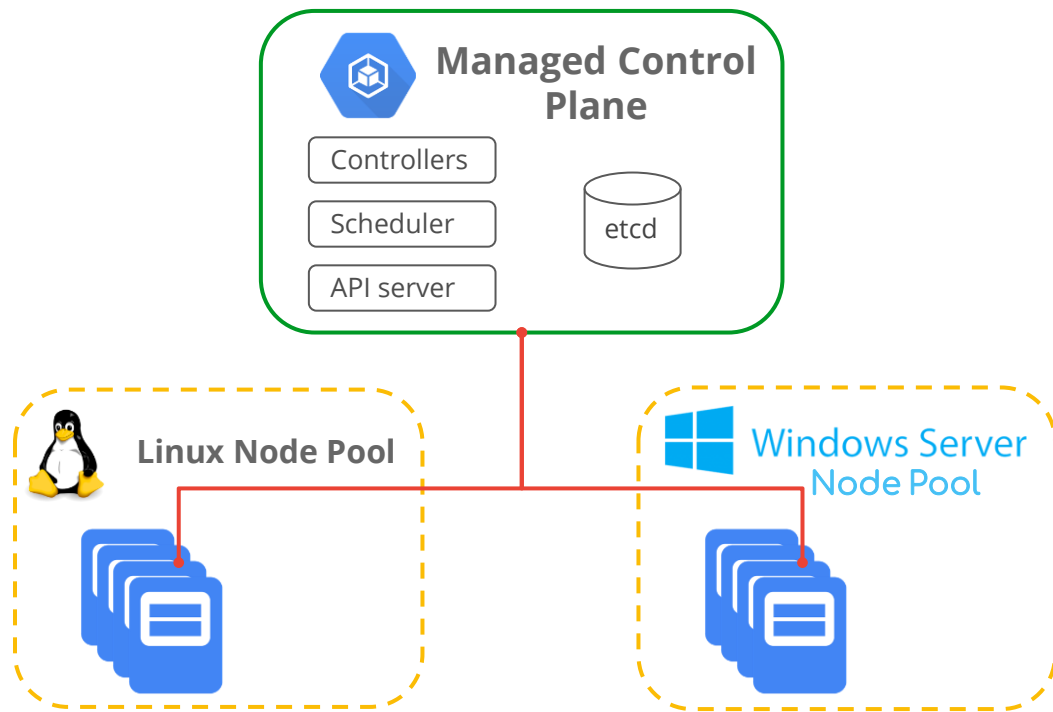
# Modernization for .NET apps



# Modernization for .NET apps



# GKE Windows high-level architecture





# GKE Differentiated features



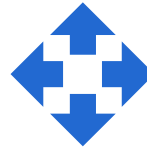
AD integration with  
gMSA support



Channels supported:  
LTSC and SAC



Cluster types:  
Private, Regional, Zonal



Four way auto-scaling



# Benefits of GKE Windows



Cost Savings  
(infra + licensing)



Consistent Experience



Fewer Vendor  
Dependencies





"We used to set up and run Kubernetes based Windows clusters manually and have now shifted to using GKE. What used to take us weeks to setup and configure, now takes a few minutes. Besides saving time, features like autoscaling, high-availability, Stackdriver logging and monitoring are already baked in. Windows in GKE gives us the same scale, reliability and ease of management that we have come to expect from running Linux in GKE".

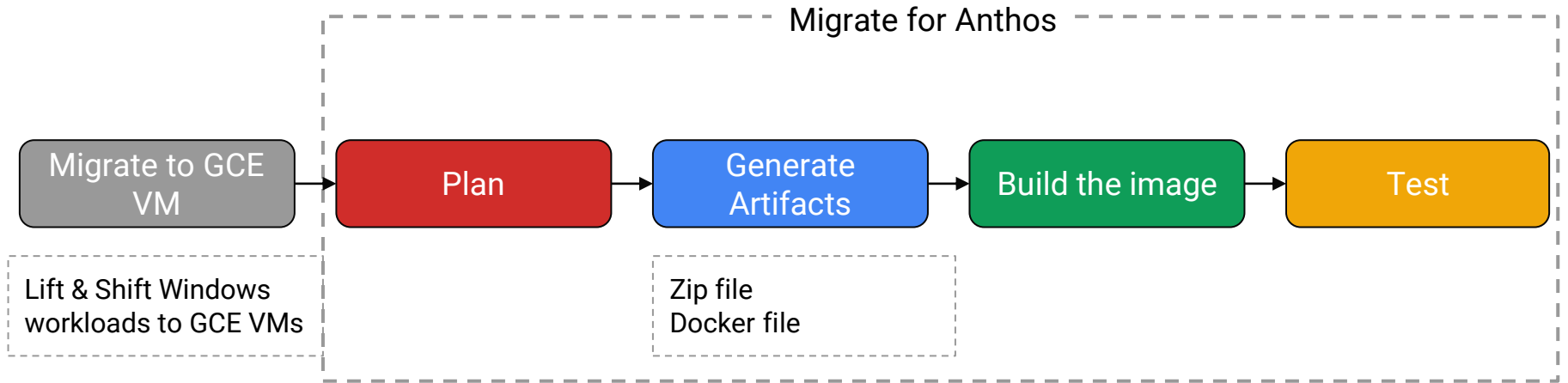
**Premkumar Masilamani**  
Cloud Architect, Helix RE

**Kubernetes' support for Windows Server is paving a path  
to modernization for Windows Server based workloads**



**HELIX** RE

# Making it easier with **Migrate for Anthos**



# Partner solutions for an end-to-end experience



GitLab



CloudBees.



# Thank you !

- 1 Modernization Path for .Net applications:  
<https://cloud.google.com/solutions/modernization-path-dotnet-applications-google-cloud>
- 2 Take Windows containers on GKE for a spin:  
<https://cloud.google.com/kubernetes-engine/docs/how-to/creating-a-cluster-windows>
- 3 Questions about GKE Windows?  
Reach us at [gke-windows@google.com](mailto:gke-windows@google.com)



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