



KUBERNETES

a year in review

INTRODUCTION

Following its explosive growth and first GA release last year, 2017 has been yet another big year for Kubernetes and the cloud-native ecosphere. If the announcement of Kubernetes integration in Docker EE alongside Docker Swarm was a reminder that Kubernetes is not the de facto platform for container orchestration, the addition of Amazon Web Services and Microsoft to the Cloud Native Computing Foundation (CNCF) and the introduction of their own hosted Kubernetes services (Amazon EKS and AKS respectively) is a big acknowledgement of the role that Kubernetes will play in production infrastructure as we look into the future.

With Kubernetes becoming more production-viable for live projects, 2017 has seen products competing to become the defacto solution for each part of the cluster stack – service meshes and CNI in particular have become hotly contested spaces with a wide choice of products.

With interest in Kubernetes and cloud-native exploding, the CNCF has also introduced several new initiatives to improve confidence in Kubernetes products and services provided within the cloud-native ecosystem. The Certified Kubernetes Conformance Program ensures that qualifying Kubernetes products are tested and guaranteed to be interoperable, regardless of vendor. The Certified Kubernetes Administrator (CKA) and the Kubernetes Certified Service provider (KCSP) programs provide assurances that cloud-native service providers have the provable expertise to help enterprises adopt Kubernetes and other cloud-native technologies.

As members of the CNCF, and a Certified Kubernetes Service Provider, those of us here at LiveWyer thought we would take another look back at the growth of Kubernetes over the past 12 months.

MAJOR RELEASES

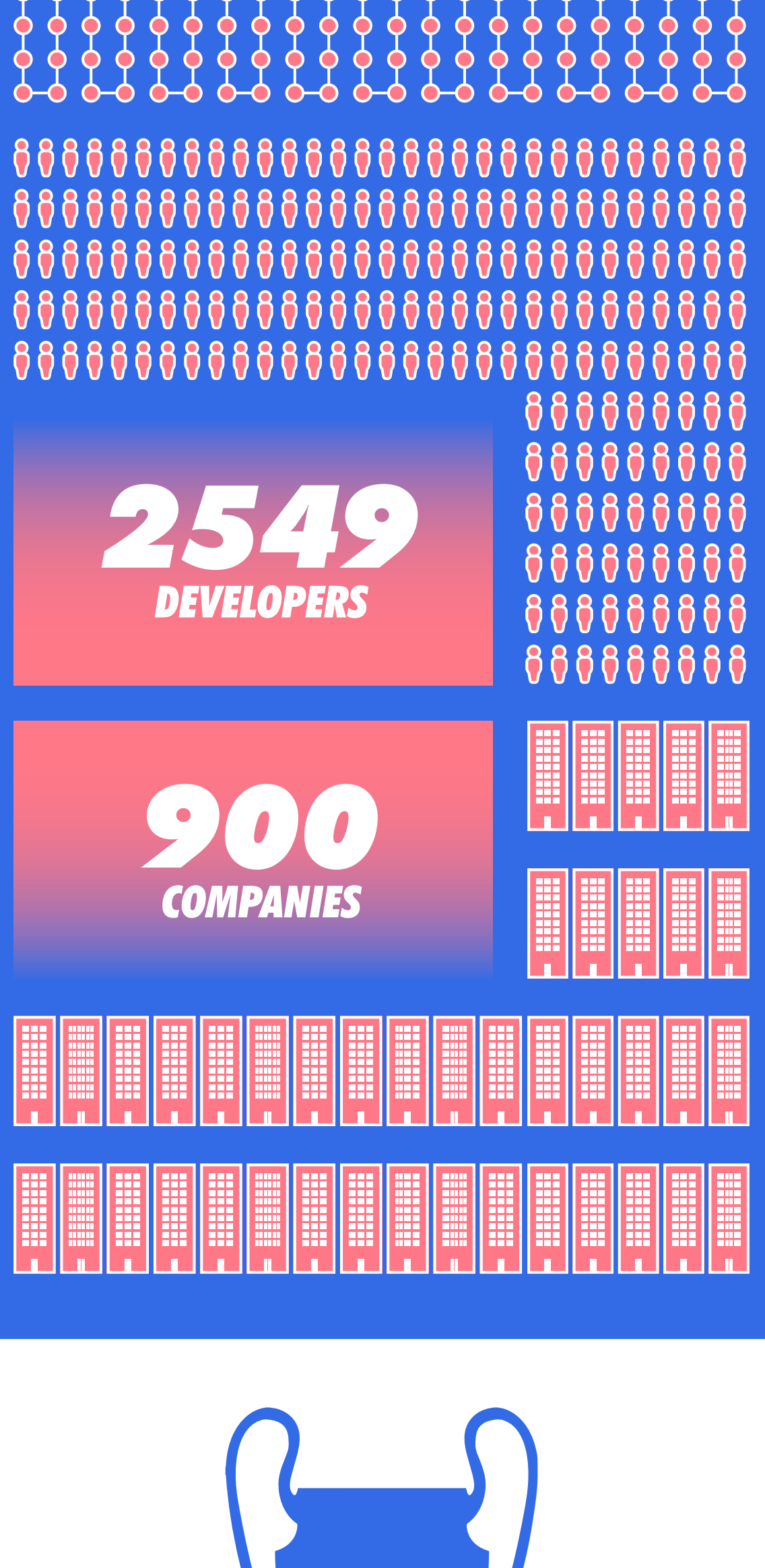


128 TOTAL RELEASES *including alphas & betas*

32% increase on 2016 **45** STABLE RELEASES

8.1 AVERAGE DAYS BETWEEN RELEASES *Nearly 3 days quicker than last year*

KEY STATS



TOP CONTRIBUTORS



ON SLACK



ON GOOGLE



Most searched for features:
cronjobs
operators
stateful sets
RBAC

Isito has quickly become a very popular topic in Kubernetes, demonstrating the emerging interest using service meshes to manage micro-services distributed across multiple clusters

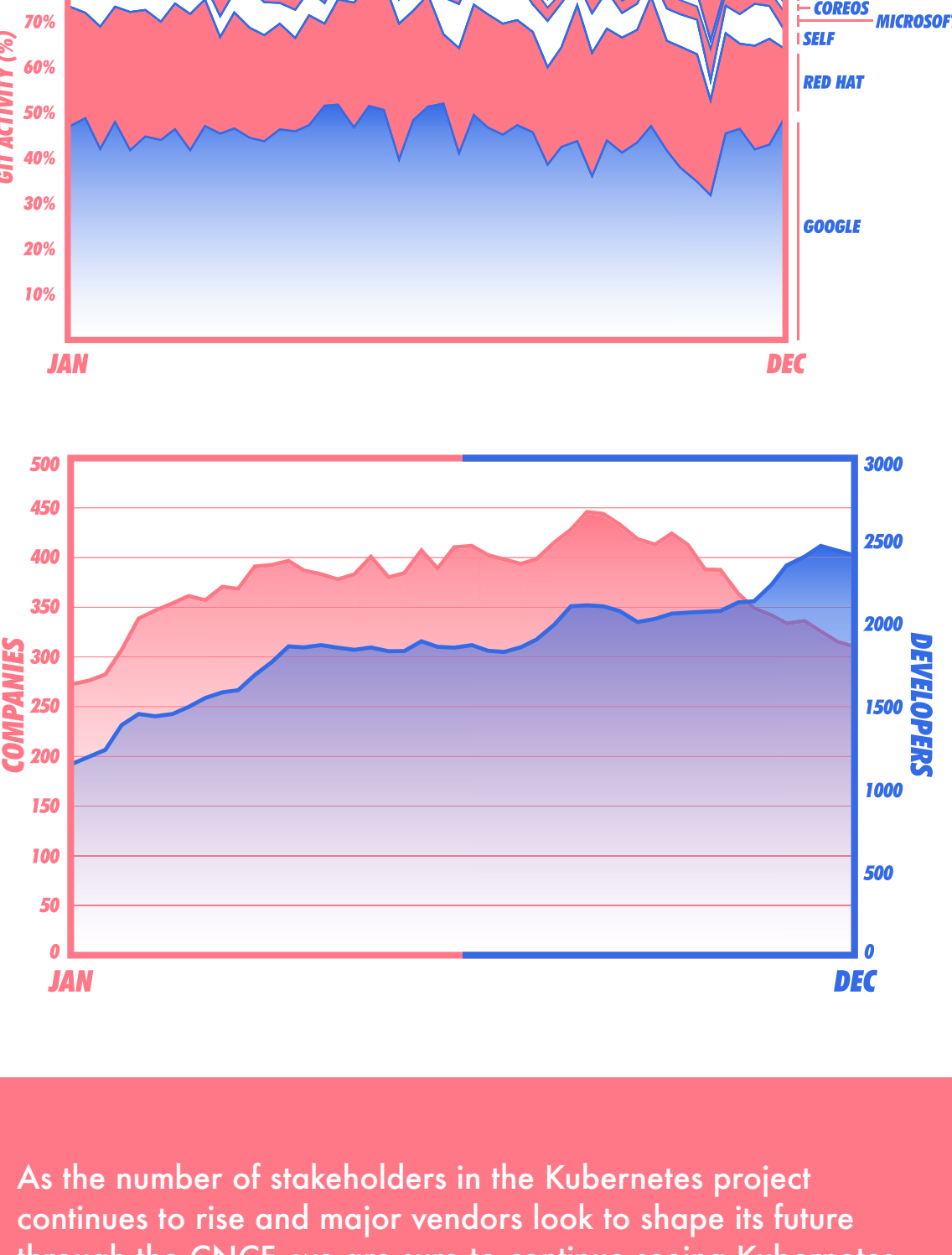
ON THE PULL



Average 2594 pull requests per month in 2017 (1540 in 2016)

August 2017 had the largest number of pull requests ever (3.64k) in the run up to release of 1.8

GIT STATS



As the number of stakeholders in the Kubernetes project continues to rise and major vendors look to shape its future through the CNCF, we are sure to continue seeing Kubernetes leading the charge for cloud-native.