

# SIG PM Intro

*KubeCon NA 2018*

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*SIG PM Chair*

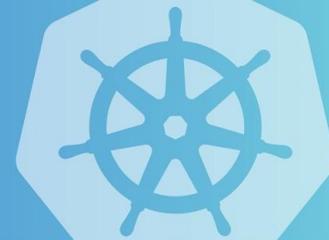
Stephen Augustus ([@justaugustus](https://twitter.com/justaugustus))

*Kubernetes Product Management Chair*



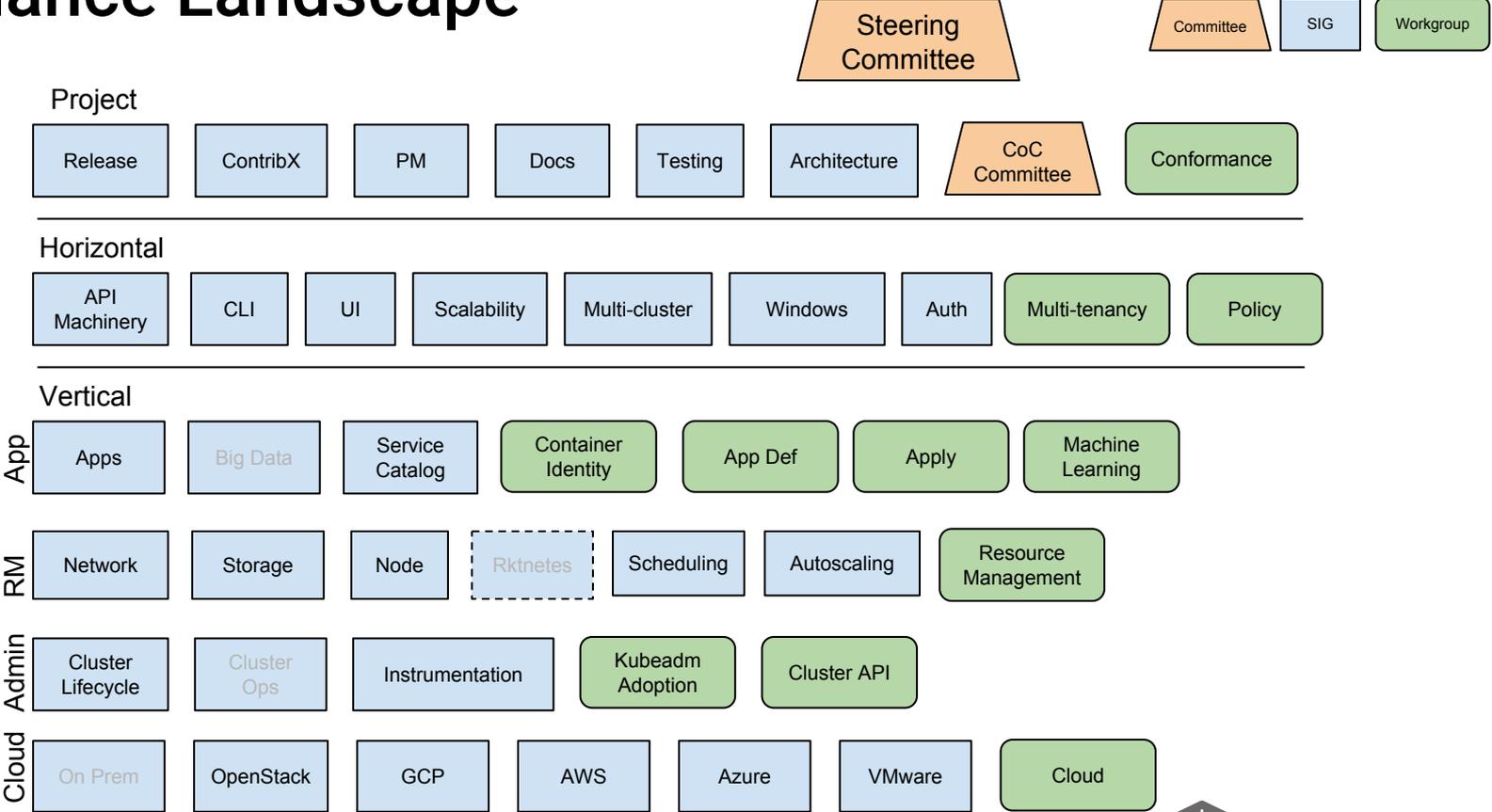
**kubernetes**

# History



- SIG PM was established in Q1'2017, as a successor to previously existing Product Management Working Group (formed in mid-2016)
- With SIG PM establishing, we have continued PM WG efforts, but made the group activities more formal (we have regular recorded meetings, mailing list, slack channel, etc.)

# Governance Landscape



# SIG-PM Charter



- Responsible for the forward-looking translation of portfolio-level objectives into project, product, marketing, and other specialized implementation strategies
- Staffing of specific release roles:
  - Release Team Enhancements Lead
  - Release Team Communications Coordinator
  - Product Roadmap committee

# What we did last cycle

- SIG PM Survey

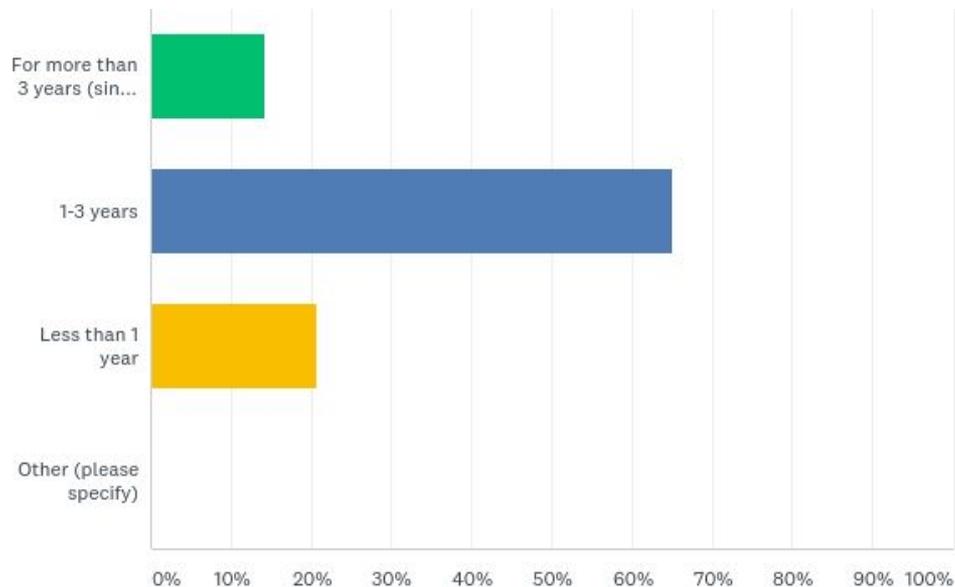
([https://docs.google.com/presentation/d/1WgK-zLHz5T0cj65hAL-rkDcO0ALPI4uY09W7\\_hj6qU/edit?usp=sharing](https://docs.google.com/presentation/d/1WgK-zLHz5T0cj65hAL-rkDcO0ALPI4uY09W7_hj6qU/edit?usp=sharing))



Some pretty graphs and numbers...



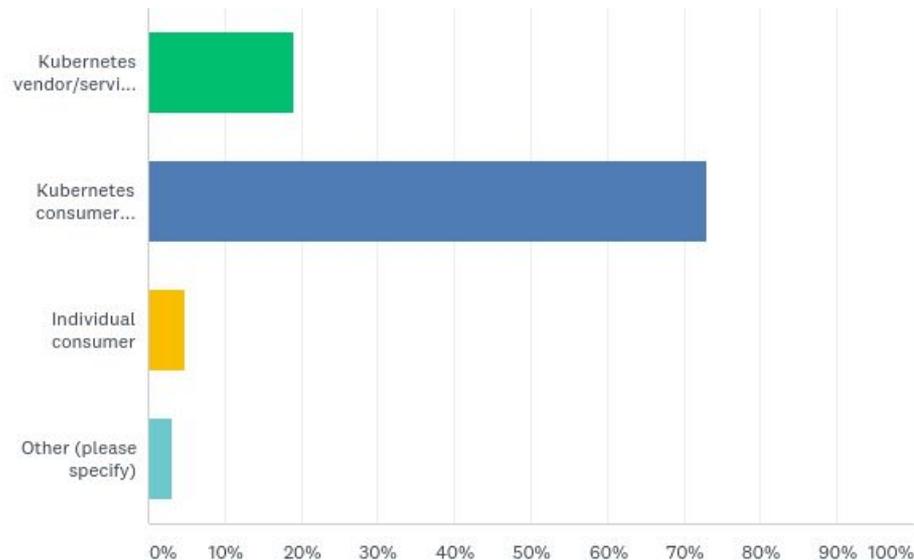
# How long have you been using Kubernetes?



Over 50% of survey respondents have been using Kubernetes for 1-3 years

| ANSWER CHOICES                             | RESPONSES |           |
|--|-----------|-----------|
| For more than 3 years (since 0.x releases) | 14.29%    | 9         |
| 1-3 years                                  | 65.08%    | 41        |
| Less than 1 year                           | 20.63%    | 13        |
| Other (please specify)                     | 0.00%     | 0         |
| <b>TOTAL</b>                               |           | <b>63</b> |

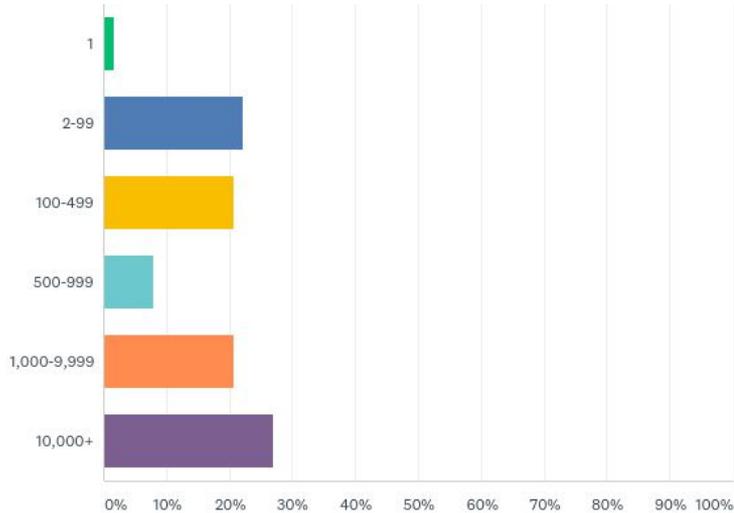
# What type of company do you work for?



Over 75% of survey respondents are real end-user consumers and not Kubernetes service providers

| ANSWER CHOICES   | RESPONSES |
|--|-----------|
| Kubernetes vendor/service provider   | 19.05% 12 |
| Kubernetes consumer (end-user, not offering any Kubernetes-related services) | 73.02% 46 |
| Individual consumer  | 4.76% 3   |
| Other (please specify)   | 3.17% 2   |
| <b>TOTAL</b>   | <b>63</b> |

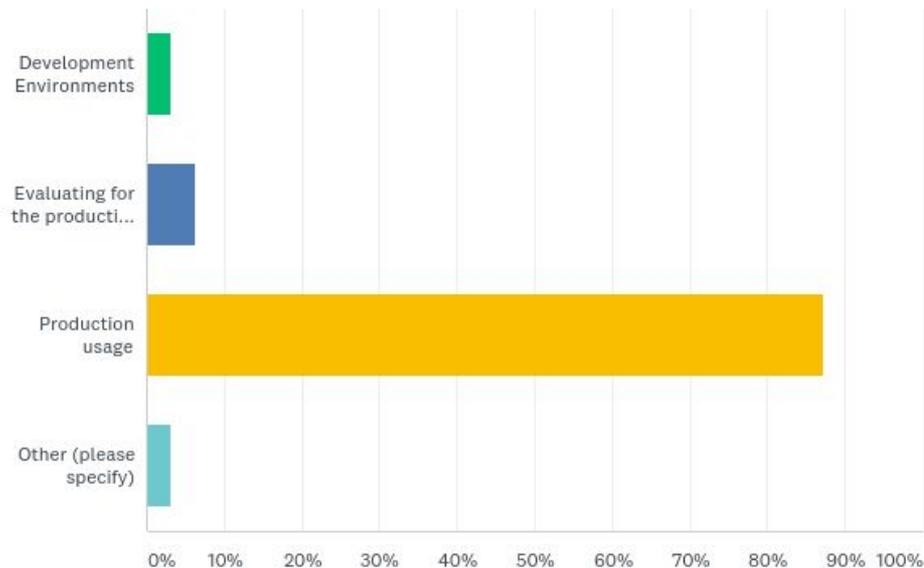
# What is the size of your company (total # of employees)?



Over 50% of survey respondents are either individual consumers or working at small to mid business companies

| ANSWER CHOICES | RESPONSES |    |
|----------------|-----------|----|
| 1              | 1.59%     | 1  |
| 2-99           | 22.22%    | 14 |
| 100-499        | 20.63%    | 13 |
| 500-999        | 7.94%     | 5  |
| 1,000-9,999    | 20.63%    | 13 |
| 10,000+        | 26.98%    | 17 |
| TOTAL          |           | 63 |

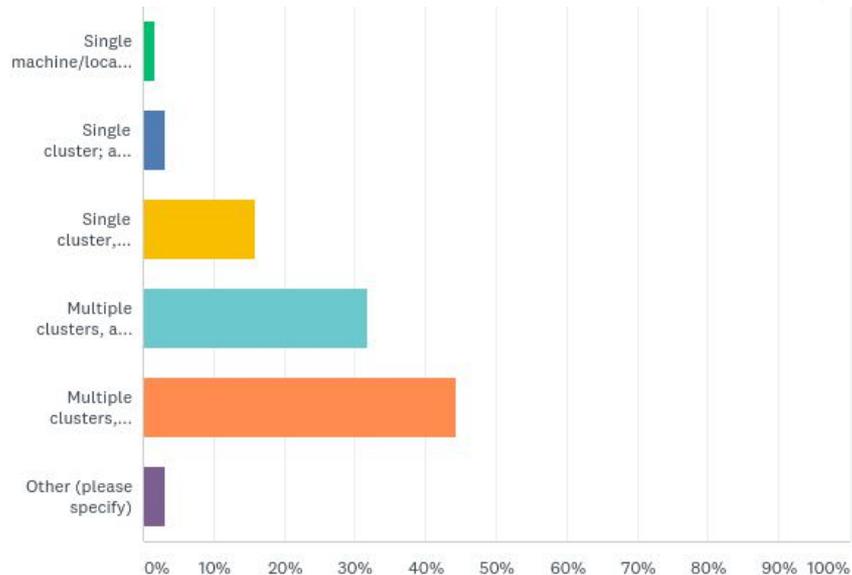
# What is the primary goal of using Kubernetes for you?



Over 87% of survey respondents are using Kubernetes in production

| ANSWER CHOICES                      | RESPONSES |           |
|-------------------------------------|-----------|-----------|
| Development Environments            | 3.17%     | 2         |
| Evaluating for the production usage | 6.35%     | 4         |
| Production usage                    | 87.30%    | 55        |
| Other (please specify)              | 3.17%     | 2         |
| <b>TOTAL</b>                        |           | <b>63</b> |

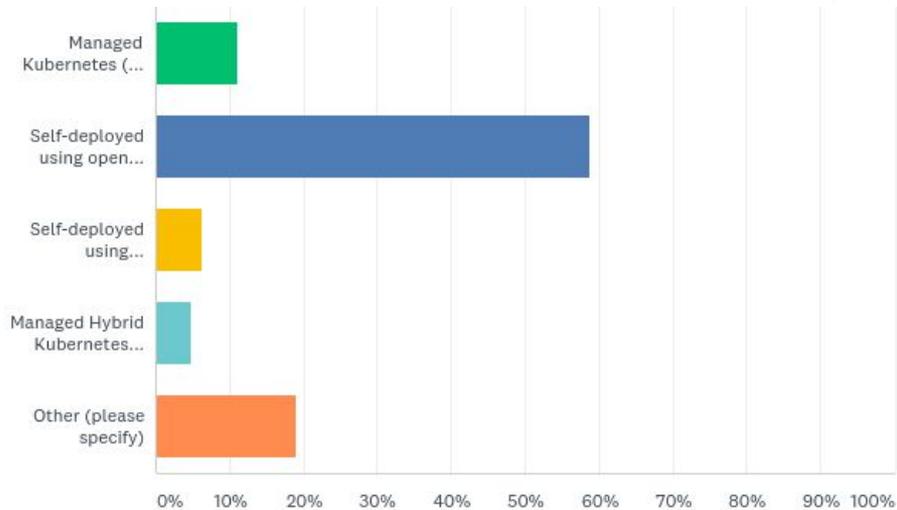
# What is the current size/scale of your Kubernetes environments?



Over 75% of survey respondents are deploying multiple Kubernetes clusters, with approximately 45% of those respondents deploying to multiple regions

| ANSWER CHOICES                                  | RESPONSES |
|---|-----------|
| Single machine/local setup                      | 1.59% 1   |
| Single cluster; a single control plane (non-HA) | 3.17% 2   |
| Single cluster, distributed control plane (HA)  | 15.87% 10 |
| Multiple clusters, a single region              | 31.75% 20 |
| Multiple clusters, multiple regions             | 44.44% 28 |
| Other (please specify)                          | 3.17% 2   |
| <b>TOTAL</b>                                    | <b>63</b> |

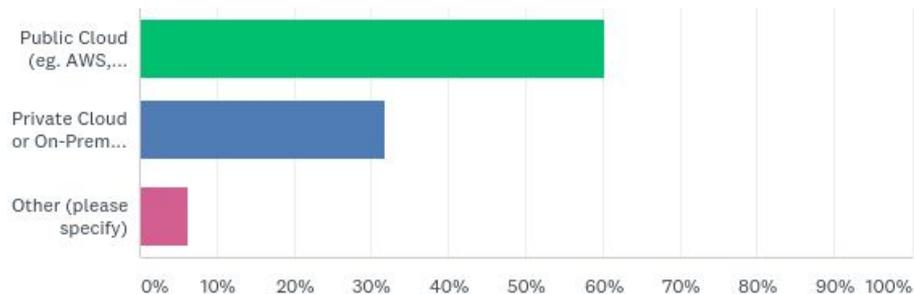
# How are you installing Kubernetes?



| ANSWER CHOICES  | RESPONSES |
|---|-----------|
| Managed Kubernetes (eg. GKE, AKS, EKS, etc.)  | 11.11% 7  |
| Self-deployed using open source installers (eg. using kubeadm, kops, kubespray, minikube, etc.) | 58.73% 37 |
| Self-deployed using distributions (eg. OpenShift, PKS, Canonical, Docker, Cisco etc.)           | 6.35% 4   |
| Managed Hybrid Kubernetes (Public/Private Managed Cloud setup, eg. GKE On-Prem.)                | 4.76% 3   |
| Other (please specify)  | 19.05% 12 |
| <b>TOTAL</b>  | <b>63</b> |

Over 65% of survey respondents deploy Kubernetes themselves, either using open source tooling or Kubernetes distributions

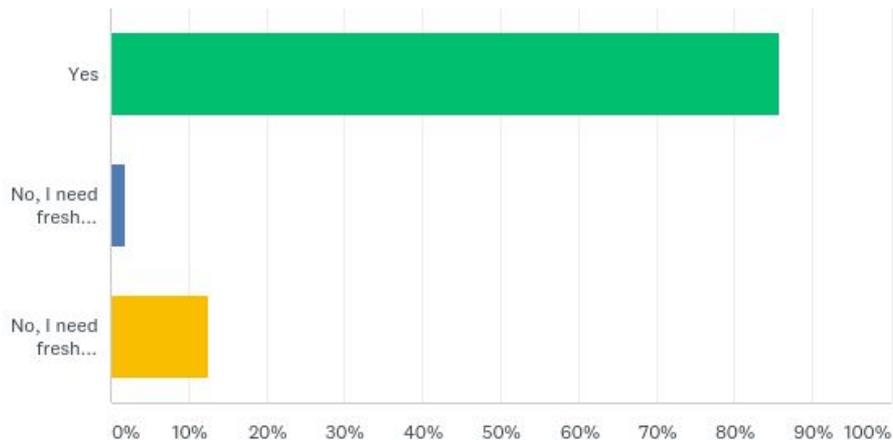
# Where do you install Kubernetes?



Over 60% of survey respondents are deploying Kubernetes on public clouds

| ANSWER CHOICES   | RESPONSES |    |
|--|-----------|----|
| Public Cloud (eg. AWS, Google, Azure, etc.)              | 60.32%    | 38 |
| Private Cloud or On-Prem (VMware, OpenStack, Bare Metal) | 31.75%    | 20 |
| Other (please specify)                                   | 6.35%     | 4  |

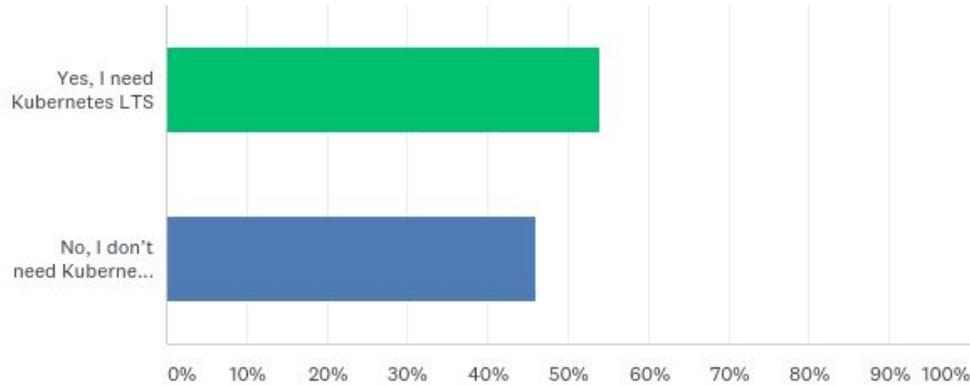
## Are you satisfied with the current Kubernetes release cadence (every three months)?



12.5% of survey respondents were interested in seeing Kubernetes be released at a slower cadence

| ANSWER CHOICES                                   | RESPONSES |    |
|--|-----------|----|
| Yes  | 85.71%    | 48 |
| No, I need fresh Kubernetes releases more often  | 1.79%     | 1  |
| No, I need fresh Kubernetes releases more rarely | 12.50%    | 7  |
| TOTAL  |           | 56 |

# If Kubernetes LTS (Long-term support) releases existed, would you use them?



Almost a split, with survey respondents only slightly favoring the idea of Kubernetes Long-term Support releases

| ANSWER CHOICES                  | RESPONSES |    |
|---------------------------------|-----------|----|
| Yes, I need Kubernetes LTS      | 53.97%    | 34 |
| No, I don't need Kubernetes LTS | 46.03%    | 29 |
| TOTAL                           |           | 63 |

# What we did last cycle (continued)

- Revitalized the KEP process
  - KEP-1a: Meta KEP Implementation was marked as Implementable
  - Project tracking for KEP Implementation
    - i. Project board: <https://github.com/orgs/kubernetes/projects/5>
    - ii. Umbrella issue: <https://github.com/kubernetes/enhancements/issues/617>
  - Enhancements
    - i. Term to encompass the set of KEPs (Kubernetes Enhancement Proposals) and Features
      - 1. KEPs: multi-release efforts comprised of multiple Features
      - 2. Features: units of work scoped to a single release cycle
  - Categorized open KEPs / design proposals as kind/kep
  - Renamed k/features to k/enhancements
  - Migrated KEPs from k/community to k/enhancements



# Plans for upcoming cycles

- Revamp the SIG PM Charter
- Clean up process documentation
  - i. Who owns what (DACI / RACI)
  - ii. Glossary of terms
  - iii. KEP Workflow (entry / exit criteria for states)
- Migrations!
  - i. Design proposals → k/enhancements (maybe?)
  - ii. Architecture design & diagrams → k/enhancements (maybe?)
- KEP CLI tool (generate / approve / transition stages)
- KEPs on Contributor Site
- KEPs to GA in 1.15/1.16 (tentative)
- Replace the Features / Enhancements tracking sheets (with literally anything else)
- Cross-SIG project tracking
  - i. Release Planning events
  - ii. Roadmaps



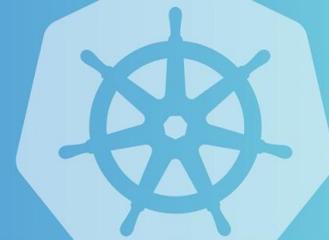
# Related KEPs

Read / understand / suggest changes!

- KEP Template: <https://git.k8s.io/enhancements/keps/0000-kep-template.md>
- KEP Process:  
<https://git.k8s.io/enhancements/keps/0001-kubernetes-enhancement-proposal-process.md>
- KEP Implementation:  
<https://git.k8s.io/enhancements/keps/0001a-meta-kep-implementation.md>
- Contributor Site discussion:  
<https://github.com/kubernetes/community/issues/1819>



# How to get involved!



- Chairs
  - Aparna Sinha, Google
  - Ihor Dvoretzkyi, CNCF
  - Caleb Miles, Google
  - Program Management & Release
    - Jaice Singer DuMars, Google
  - Product Management
    - Stephen Augustus, Red Hat
    - Dustin Kirkland, Google
- Home page: <https://git.k8s.io/community/sig-pm/>
- Slack channel: <https://kubernetes.slack.com/messages/sig-pm>
- List: <https://groups.google.com/forum/#!forum/kubernetes-pm>

Questions?



# Find us on the internet!



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