# **The Future of Data on Kubernetes**

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Hey folks!!

**K8s** is now becoming popular day by day, as due to **persistent volumes** it is now capable of running **stateful workloads** (which are now essential for many businesses).

**If you are someone who don’t know what K8s is, just Don’t Worry   
It is an open-source system to deploy, scale, and manage containerized applications anywhere.**

But running stateful workloads on K8s is rather challenging and new for many and as a result DOK Community Emerges which is a group of practitioners who are sharing techniques to running Data on K8s.

Now how and why running Data on K8s is becoming popular and what challenges it’s facing is well explained by the survey conducted by DOK across the globe of 500 K8s Users from different technological backgrounds and different geographies.

K8s has become a core part of their infrastructure – half of the respondents are running 50% or more of their production workloads on it and they report even higher levels of productivity with a majority achieving an impressive 2x or more productivity due to which they experienced increased satisfaction and very likely to increase their K8s footprint.

This means that Data on K8s is widely adopted Respondents are running a wide range of stateful workloads on K8s with the Databases in the top spot followed by a three-way tie including Persistent Storage, Streaming/Messaging, and Backup/ Archival Storage.

This widely adoption is driven by **Standardization** as K8s manage all workloads in a standard way i.e., K8s has the ability for organizations to standardize across hybrid environments with K8s. **Standardization is the key driver for Kubernetes Leaders.**

But despite all this Merits Respondents also face challenges when running data on K8s mainly **lack of integration** with existing tools followed by a **lack of interoperability** with the rest of their stack, **the lack of talent, little or no vendor solution exists**, Kubernetes open-source features are not mature enough and many more.

But despite all these challenges Respondents still believe that running stateful workloads on K8s is the way forward as **Standardization of the data is important** and K8s provides it with higher satisfaction and increased productivity.

But Still Some Questions are unanswered   
1. How K8s is dealing with the problem of integrity and interoperability.

2. How to reduce the problem of talent gap.

3. How to cure the problem of no vendor solution exits.