

## TIER Container Orchestration

### Default Question Block

The Packaging team selected Docker Swarm for the default TIER container orchestration framework. Our thinking when we made that decision was that Swarm is a good least common denominator framework and that everyone already has simple access to it since Swarm is built into Docker engine itself. More recently we have heard from some schools that they would prefer that we base TIER reference implementations on Kubernetes instead of Swarm. The current expectation for TIER reference implementations has been that we will provide *docker-compose* files suitable for use with *docker stack deploy* under Swarm. We also see the winds of change turning in the direction of Kubernetes but it's unclear to us what will turn out to be the most heavily used framework by TIER schools

We understand that TIER containers will ultimately need to run under whatever orchestration framework a campus has chosen for production Docker services and we do our best to keep containers themselves framework agnostic.

The results from this short survey will help guide decisions about how TIER reference implementations are created. Feel free to only answer questions that apply to your environment.

**Summarize your organization's current use of Docker containers. By "your organization", we mean your area (e.g., central IT) as opposed to your school as a whole.**

Docker is used extensively for production services

Docker is operational for one or two production services

Docker is being tested and/or used for development only

Docker is not being used or evaluated for production services

**Summarize your group's current use of Docker containers. By "your group", we mean your area (e.g., IAM Services) as opposed to your school or organization as a whole.**

Docker is used extensively for production services

Docker is operational for one or two production services

Docker is being tested and/or used for development only

Docker is not being used or evaluated for production services

**Based on your knowledge of Docker and your organization's direction, which orchestration framework(s) are you most likely to need to use?**

No framework, direct container deployment

Docker-Compose (single-node)

Docker Swarm

Kubernetes

Amazon Elastic Container Service

Google Container Engine

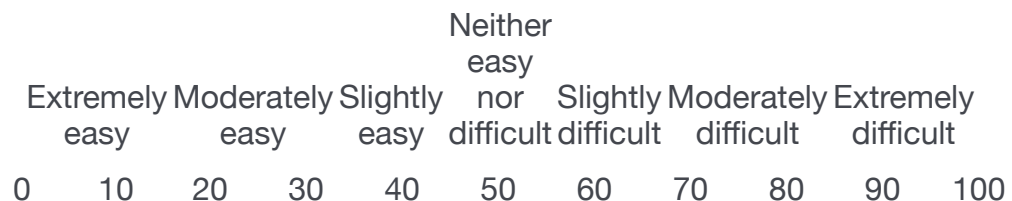
Mesosphere Marathon

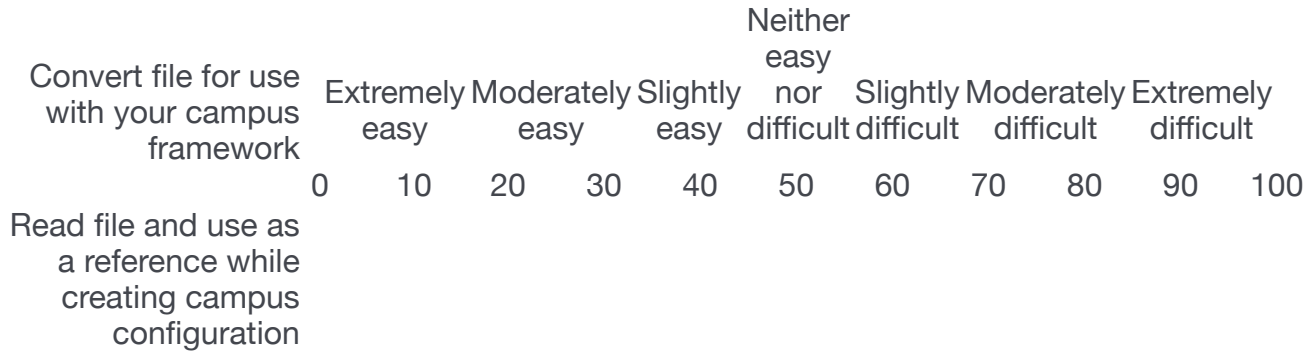
Azure Container Service

Diego

Other

**Your expectation of how hard it would be to leverage a TIER Swarm docker-compose file to assist with your container orchestration needs?**





**What do you see as the main set of trade-offs between Kubernetes and Docker Swarm?**

**Please enter the following information in case we have questions**

Your name

Institution

Email address

Repeat email address

**Thank you - click the Next arrow below to submit your answers.**

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