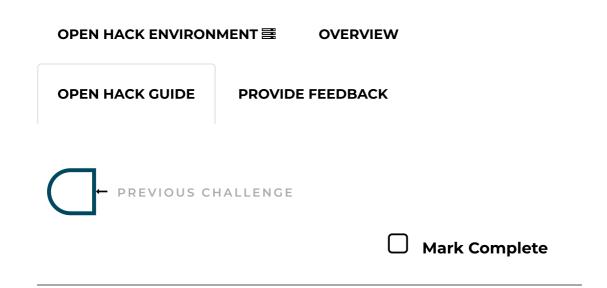
(/)

LOGOUT



# Challenge 2 - Let's get ready to cluster!

## Background

Containers are extremely useful on their own, but their flexibility and potential is multiplied when deployed to an orchestrator/cluster.

You can learn more about the value of orchestrators at <a href="https://docs.microsoft.com">docs.microsoft.com</a> (https://docs.microsoft.com), or more specifically the following links:

<u>Service Fabric and Containers</u>
 (https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-containers-overview)

(/)

Introduction to Azure Container Service (AKS)

(https://docs.microsoft.com/en-us/azure/kubernetes)

Once you have a cluster configured, you can react quickly to demand and leverage the extended functionality of the underlying platform to best suit your needs whether that's:

- Deploying quickly and reliably.
- Scaling on at will to meet demand.
- Rolling out new features or upgrades.
- Utilizing only what resources you need for your current provision.

## Challenge

Your team's goal in this challenge is to deploy the same container you used in challenge 1, to a cluster in Azure either with Service Fabric (https://docs.microsoft.com/en-us/azure/service-fabric/) or Azure Container Service (AKS) (https://docs.microsoft.com/en-us/azure/aks/) in the EastUS Azure region.

### **Success Criteria**

 Create a cluster in Azure, running v1.0 of your chosen container, in the EastUS Azure region.

### References

- You can find the Minecraft containers on Docker Hub (https://hub.docker.com/r/openhack/minecraft-server/)
- HINT: There is a second port on a Minecraft server for RCON (Remote Console) 25575, in addition to the default

(/)

connection port (25565). The hack portal uses this to verify your server!!

Some other useful resources in addition to the ones in challenge 1 are:

- Azure resource naming best practices
   (https://docs.microsoft.com/en-us/azure/architecture/best-practices/naming-conventions)
- <u>Azure CLI reference (https://docs.microsoft.com/en-us/cli/azure/get-started-with-azure-cli)</u>
- <u>Kubectl overview (https://kubernetes.io/docs/user-guide/kubectl-overview/)</u>
- <u>Service Fabric Containers Overview</u>
   (https://docs.microsoft.com/en-us/azure/service-fabric/service-fabric-containers-overview)

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