



Challenge 2 – Adaptation and Constraints

The Depot at Cape Canaveral is almost online, and the depots in the Netherlands, Australia, and New Zealand will be coming online soon as well.

Our next obstacle is the infrastructure for the base on the moon. The Moon will be used as stopping point on the way to Mars, in addition to serving as the human race's new home until the colony on Mars is finished.

Due to the way the base was constructed, we have serious power, cooling, and space limitations. You must scale the design down to fit into half of a datacenter rack, or 21U. In addition, we also only have IPV6 network infrastructure on the moon. You must use the same vendors of the design you will be working with, but you can use different product lines. You must tell us what the configuration maximums for the new design are (for example, maximum hosts, VMs, storage capacity), and what your failure tolerance is.

In order to remove the risk of a single point of failure (such as a complete support team turning into zombies) we will be moving forward with two infrastructure designs.

Team Alpha, you will be using a design from Team Beta.

Team Beta, you will be using a design from Team Alpha.

Designs will be submitted in **PDF format, including diagrams, IP topology, and all supporting documentation**. Your design should speak for itself, and your defense will support it with questions from the judges.

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