



## Virtual Design Master - Challenge 3

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As we learned in our last challenge, not everything is as it seems. We are beginning to learn more about the group that hijacked the supply shipment. They believe the zombies are to be protected, and Earth belongs to them. We now have to worry about our re-colonization efforts being sabotaged by this rogue group. Our billionaire philanthropist friend has temporarily frozen new recruits to the re-colonization effort until he comes up with a plan. He thanks you for your ideas from the second challenge, and is beginning to implement them throughout his organization.

Since our infrastructure is growing, but our ranks are not, orchestration has become a necessity. We can not rely on being at the keyboard in hostile environments or remote locations. To solve our problem for this design scenario, you need to design a configuration management framework that is able to deal with the launch and continuous configuration of your infrastructure.

We don't know what to expect, so our infrastructure needs to be adaptable. This is a practical and documentation challenge. You will need to:

- Deploy two different orchestration platforms on any host platform of your choice
- Deploy two (2) CentOS and two (2) Ubuntu servers using a provisioning service (your choice) so that one (1) of each are managed by each orchestration platform
- Create processes to patch each server daily
- Deploy an NGINX web server using your orchestration platform
- Deploy a "Hello World" onto each server using your orchestration systems and with the source stored on GitHub

BONUS: Integrating anything else into your deployment workflow such as security checks, build triggers, and more will be nice add ons

Share your code, and build instructions as well as a document detailing the infrastructure design. Having video walkthroughs of your working environment are also a bonus. Make sure to note any dependencies you have to be able to deploy your infrastructure.

Document submission is **due Wednesday July 14<sup>th</sup> at 9 AM Eastern Time.**

Email the final design to [eric@discoposse.com](mailto:eric@discoposse.com) for review. PDF is preferred.

**Good luck everyone!**