

# **Docker Deployment System Built On Amazon Web Services**

**Chris Fortier**

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**Harvard University Extension School**

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## Project Description:

Docker and its associated ecosystem is one of the most hyped about technologies in the computing world. However many of the examples only show simple examples that may not be of practical use. In this project we will build a Virtual Private Cloud suitable for serving a web application using CloudFormation. We will then explore an innovative technique of running Docker containers on each server instance behind an HA Proxy process.

There are several important benefits to this approach. By running instances in an auto-scaling group we have elastic scalability to meet any amount of demand. By using HA Proxy on each host server, we will be able to deploy a new version of our application container to new visitors while simultaneously allowing all current connections to finish for current users. This affords the ability to do a rolling deployment without any visitor interruption.

## YouTube Links:

Full Presentation:

[http://www.youtube.com/watch?v=M3o5x8tb5eY&feature=youtube\\_gdata](http://www.youtube.com/watch?v=M3o5x8tb5eY&feature=youtube_gdata)

Two-minute summary:

[http://www.youtube.com/watch?v=f5bXkZycxqA&feature=youtube\\_gdata](http://www.youtube.com/watch?v=f5bXkZycxqA&feature=youtube_gdata)