# A Container description

Glyn Normington

Steve Powell

April 1, 2014

This document attempts to describe containers [?] in a precise fashion.

11		Draft
Contents		
1	Introduction	1
2	Overview of this document	1
3	White board stuff	1
4	References	3

Version 0.1

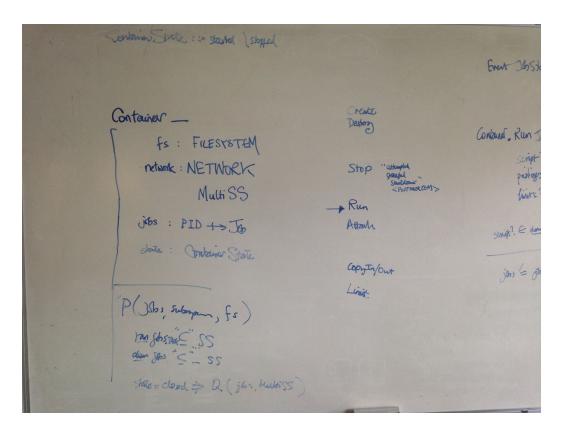
## 1 Introduction

This is a document that records the deliberations of Glyn and Steve as they come to grips with "what containers really are" <sup>1</sup>.

#### 2 Overview of this document

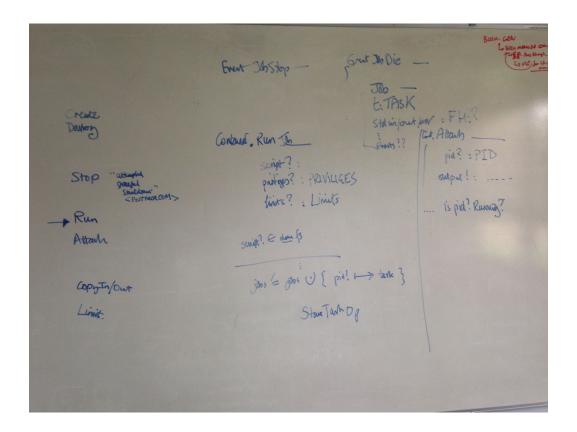
This document is a rag-bag of concepts and ideas (at the moment). The intention is to find the right decomposition of ideas to simply describe the state, and state transitions, of *Containers* and the *Jobs* that they *Run*.

### 3 Initial whiteboard stuff



<sup>&</sup>lt;sup>1</sup> "What are containers?" Jerzy Czaykowski (adapted)

2 Draft



Version 0.1

#### 4 References

[1] Various authors, Warden github repository, https://github.com/cloudfoundry/warden.

- [2] Various authors, *Garden github repository*, https://github.com/pivotal-cf-experimental/garden.
- [3] Various authors *libcgroup*, http://libcg.sourceforge.net/html/index.html.
- [4] Paul Menage, Paul Jackson and Christoph Lameter, CGROUPS, https://www.kernel.org/doc/Documentation/cgroups/cgroups.txt, 2004-2006.
- [5] Linus Torvalds, et al, Linux kernel source tree, https://github.com/torvalds/linux.
- [6] Various authors, Memory Resource Controller, https://www.kernel.org/doc/Documentation/cgroups/memory.txt.
- [7] Kamezawa Hiroyuki, et al, NOOP cgroup subsystem, http://thread.gmane.org/gmane.linux.kernel/777763.
- [8] Martin Prpič, Rüdiger Landmann, and Douglas Silas, Red Hat

  Enterprise Linux 6.5 GA: Resource Management Guide,

  https://access.redhat.com/site/documentation/en-US/

  Red\_Hat\_Enterprise\_Linux/6/pdf/Resource\_Management\_Guide/

  Red\_Hat\_Enterprise\_Linux-6-Resource\_Management\_Guide-en-US.pdf.
- [9] Bertrand Meyer, On Formalism In Specifications, IEEE Software, Vol. 2(1), 1985.