



Implementing Pipelines to Automate Container Maintenance in Highly Regulated Environments

Rob McCarthy

Jose Andre Morales, Ph.D.

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

Copyright 2022 Carnegie Mellon University.

This material is based upon work funded and supported by the Department of Defense under Contract No. FA8702-15-D-0002 with Carnegie Mellon University for the operation of the Software Engineering Institute, a federally funded research and development center.

The view, opinions, and/or findings contained in this material are those of the author(s) and should not be construed as an official Government position, policy, or decision, unless designated by other documentation.

References herein to any specific commercial product, process, or service by trade name, trade mark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by Carnegie Mellon University or its Software Engineering Institute.

NO WARRANTY. THIS CARNEGIE MELLON UNIVERSITY AND SOFTWARE ENGINEERING INSTITUTE MATERIAL IS FURNISHED ON AN "AS-IS" BASIS. CARNEGIE MELLON UNIVERSITY MAKES NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, AS TO ANY MATTER INCLUDING, BUT NOT LIMITED TO, WARRANTY OF FITNESS FOR PURPOSE OR MERCHANTABILITY, EXCLUSIVITY, OR RESULTS OBTAINED FROM USE OF THE MATERIAL. CARNEGIE MELLON UNIVERSITY DOES NOT MAKE ANY WARRANTY OF ANY KIND WITH RESPECT TO FREEDOM FROM PATENT, TRADEMARK, OR COPYRIGHT INFRINGEMENT.

[DISTRIBUTION STATEMENT A] This material has been approved for public release and unlimited distribution. Please see Copyright notice for non-US Government use and distribution.

This material may be reproduced in its entirety, without modification, and freely distributed in written or electronic form without requesting formal permission. Permission is required for any other use. Requests for permission should be directed to the Software Engineering Institute at permission@sei.cmu.edu.

DM22-0370

Building Containers



Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

HRE Pipeline



Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

HRE Pipeline *at Scale*



Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

A Scalable Robust Approach

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA 15213

Rob McCarthy, remccarthy@sei.cmu.edu,

Jose Andre Morales, jamorales@sei.cmu.edu

Demo Code: <https://github.com/rmccarth/dsodays-automations.git>