

Aetna Boom Rollback Issue

March 2019

Overview

- Customer attempting to use boom to roll back
- `lvconvert --merge` used to roll back update
- Use of 'yum upgrade' erases snapshot kernel
 - Upgrade implies `--obsolete` processing
- Results in a pair of “incorrect” entries:
 - System entry has wrong kernel (new)
 - Boom entry has wrong `root_device` (old)

BEFORE MERGE

System Boot Entry

root_device = rootvg/root
version = 3.10.0-957.1.3.el7



Diagram illustrating the System Boot Entry configuration. A blue rectangular box at the top contains the text "System Boot Entry" and "root_device = rootvg/root" followed by "version = 3.10.0-957.1.3.el7". A vertical arrow points from the bottom of this box to a blue cylindrical snapshot icon. The snapshot icon is labeled "rootvg/root" and "3.10.0-957.1.3.el7".

rootvg/root
3.10.0-957.1.3.el7

Boom Boot Entry

root_device = rootvg/root-snap
version = 3.10.0-862.el7

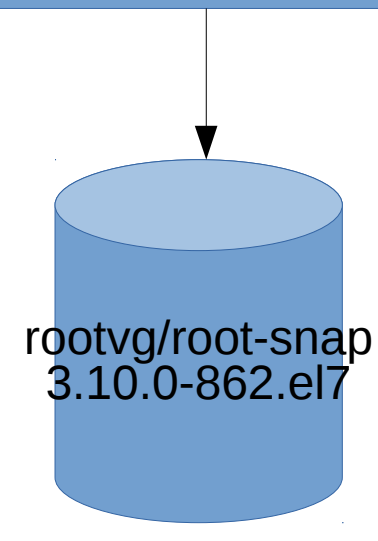
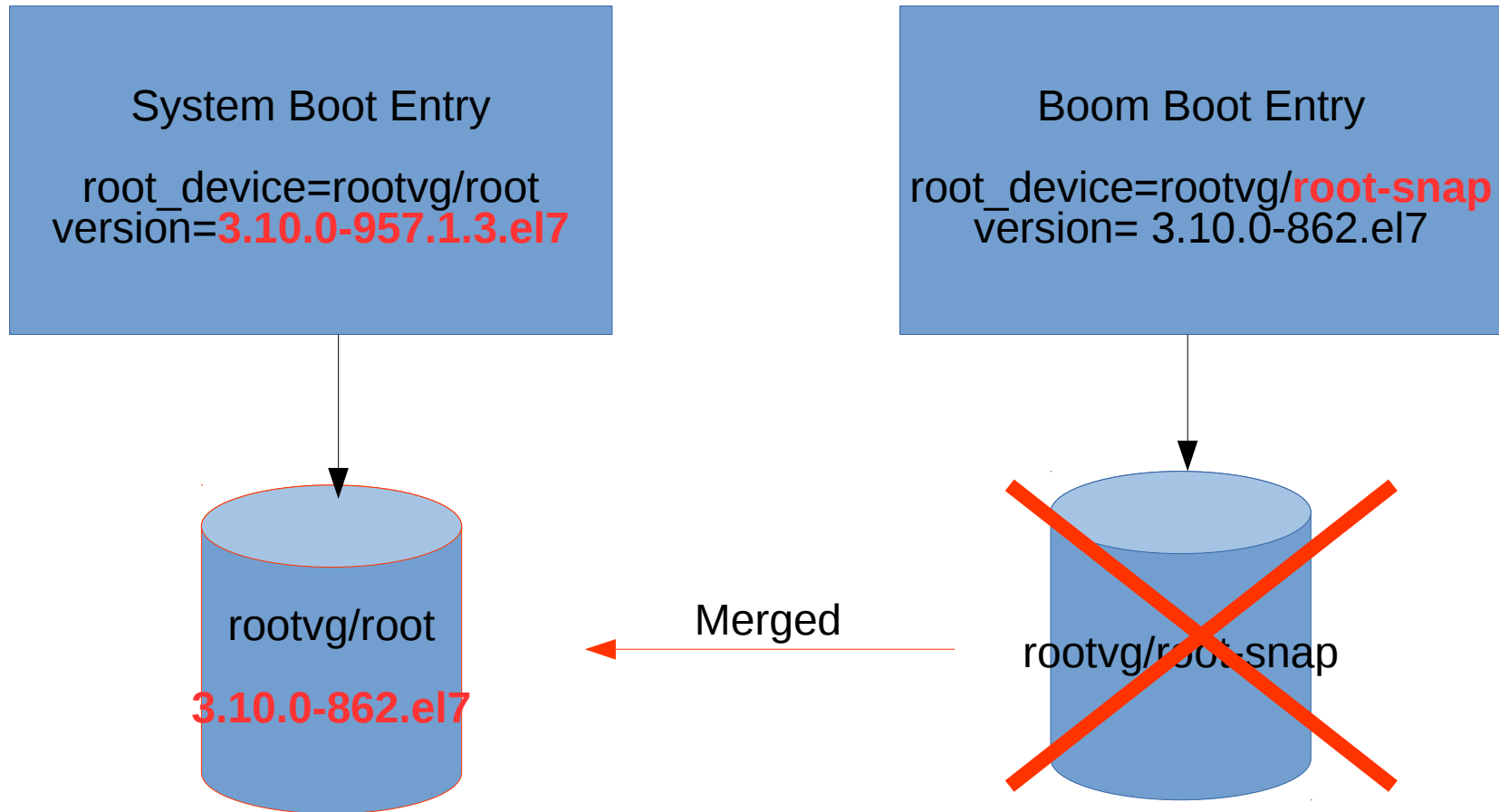


Diagram illustrating the Boom Boot Entry configuration. A blue rectangular box at the top contains the text "Boom Boot Entry" and "root_device = rootvg/root-snap" followed by "version = 3.10.0-862.el7". A vertical arrow points from the bottom of this box to a blue cylindrical snapshot icon. The snapshot icon is labeled "rootvg/root-snap" and "3.10.0-862.el7".

rootvg/root-snap
3.10.0-862.el7

AFTER MERGE



IMMEDIATE SOLUTIONS

- Edit grub.cfg or re-run grub2-mkconfig
 - Re-discover system boot entries
 - Needs testing for possible timing issue wrt merge.
- Edit boom entry
 - Not a full “rollback” to system entry
 - But may be acceptable short-term
 - Making default may be problem w/RHEL7's grub

LONG TERM SOLUTIONS

- [medium] Possible changes in boom to automatically perform or suggest additional actions when manipulating snapshots
- [long] Move merge control into the snapshot-manager and automatically apply necessary actions when initiating merge/rollback operation.