

Malleable Metal: Integrating SAN-booting With Foreman

Ian Ballou, Boston University

Abstract

Rapid, multi-tenant bare metal provisioning is a highly sought technology that has yet to be standardized. Malleable Metal as a Service (M2) introduces a lightweight service for quickly provisioning nodes in an elastic and multi-tenant environment. By SAN-booting nodes through iSCSI with Ceph-managed images, M2 is able to drastically cut the usual network boot time.

To enhance the multi-tenant M2 experience, M2 is being integrated with Foreman. Users will still be able to manage the full life cycle of their bare metal nodes in Foreman, but with the added speed that M2 provides. This integration features a Foreman core M2 plugin, as well as a Foreman smart-proxy plugin to facilitate communication between Foreman and M2.

Speaker Bio

Ian Ballou is a BU class of 2019 undergraduate computer engineer. He is an intern at Red Hat and a member of the Mass Open Cloud HIL and M2 teams.

Github: <https://github.com/ianballou>