



# Redfish Forum Open Source Community Engagements

December 2018



## Disclaimer

- The information in this presentation represents a snapshot of work in progress within the DMTF.
- This information is subject to change without notice. The standard specifications remain the normative reference for all information.
- For additional information, see the Distributed Management Task Force (DMTF) website.



## Overview

- As part of the Redfish Forum's charter, the group works with various open source communities for assisting in the adoption of Redfish
- Three projects are called out in the charter specifically
  - OpenStack
  - Ansible
  - Puppet
- The Redfish Forum has been engaged with these groups for the past year, either by providing technical assistance, or contributing directly to their projects



## OpenStack

- The Ironic project within OpenStack is responsible for bare metal provisioning of systems
- Ironic contains a Redfish driver for interfacing with systems that support Redfish
  - Leverages a library called Sushy for performing the lower interactions with various Redfish resources
- Contributions from the DMTF
  - Technical guidance on how to manage Settings objects within a Redfish implementation within the Sushy library
  - Implementation of the BIOS interface in the Redfish driver for applying BIOS settings to a system
- Items under discussion for future work
  - Volume management
  - Firmware update



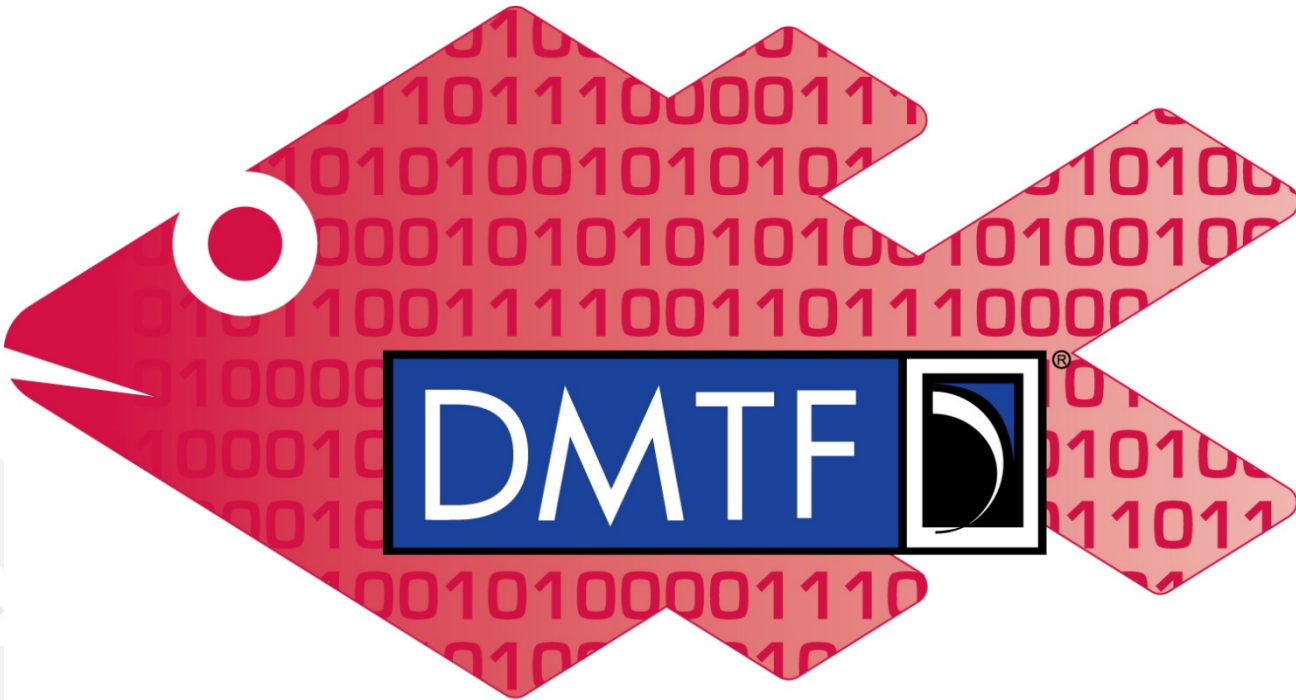
## Ansible

- Orchestration engine for provisioning hardware and deploying workloads
- Contains a Redfish module in order to perform remote management of a system
- Contributions from the DMTF
  - Testing the existing Redfish module against systems available to DMTF contractors
  - Triaging and fixing bugs within the Redfish module
  - Removing vendor specific code from the module
- Items under discussion for future work
  - Creating a documentation hub for how vendors can tie OEM hooks into the Redfish module
  - Creating a DMTF repository for playbooks for performing system management via Redfish



## Puppet

- Another orchestration engine for provisioning hardware and deploying workloads
- Preliminary work is being done to understand how Redfish (and IPMI) are supported in Puppet today
  - Razor is the hardware provisioning application supported by the Puppet community today, which contains some IPMI support
- **Items under discussion for future work**
  - Bringing Redfish support up to parity with IPMI
  - Performing a gap analysis with Redfish support in Ansible and Puppet, and incorporating common features



# Redfish