



NetworkManager module overview

- Native NetworkManager(NM) configuration tool using the Puppet
 - Uses NM native keyfiles to "bypass" distribution specific scripts which nowadays use NM as backend (RHEL ifup, Debian network/interfaces, ...)
 - Prepared for the dualstack and ipv6 management
 - Predefined basic interface configuration support:
 - DHCP/manual interface
 - Bonding
 - Bridging
 - vlans



NetworkManager module overview

- Can be used for complete, but also for partial management
 - Complete: unknown connections are removed
 - Partial: ignores unknown connections
 - Can also completely ignore interfaces by name or MAC address
- Has a "fallback" definition for exotic configurations
 Can be obtained from puppetforge and github:

https://github.com/jednoprsak/PuppetNetworkManagerModule



NetworkManager module problems

- The module is still work in progress in beta/RC phase
- Mostly tested only on AlmaLinux 9 (was also working on Rocky;-))
 - Looking for volunteers to test it on different NM capable distributions
- Documentation is almost nonexistent
- PRs and bug reports are welcome



DNS + DHCP generator

- Python based script used for generating the DHCP and DNS configuration from simple yaml structure
- Support for:
 - IPv6 and SLAAC reverse DNS entries
 - Multiple MAC addresses for one IP address
 - CNAMES, per host DHCP includes
- Output used as source of configuration distributed by puppet
- More error resilient than 5 different files with 3 different syntax styles to fill the data into
- Alpha stage (works for us, but not tested elsewhere)



DNS + DHCP generator

Obtainable from github:

https://github.com/jednoprsak/DNS_DHCP_generator

ISC-DHCP configuration
For IPv4 and IPv6

host.example.com:
192.0.2.231:
- aa:bb:cc:dd:ee:ff
2001:db8::231:
- aa:bb:cc:dd:ee:ff

BIND DNS configuration
with reverse entries for IPv6 SLAAC





