ansible-role-linux-postinstall Documentation

Release 1.14.1

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ONE

QUICK START GUIDE

For those users who want to quickly try the role this guide provides an example of how to create users, install packages and configure services.

- Install the role `vbotka.linux_postinstall`

```
shell> ansible-galaxy install vbotka.linux_postinstall
```

- Create the playbook `linux-postinstall.yml` for single host srv.example.com (2)

```
shell> cat linux-postinstall.yml
- hosts: srv.example.com
  gather_facts: true
  connection: ssh
  remote_user: admin
  become: yes
  become_user: root
  become_method: sudo
  roles:
    - vbotka.linux_postinstall
```

- Create `host_vars` with customized variables.

```
shell> ls -1 host_vars/srv.example.com/lp-*
host_vars/srv.example.com/lp-common.yml
host_vars/srv.example.com/lp-users.yml
host_vars/srv.example.com/lp-passwords.yml
host_vars/srv.example.com/lp-packages.yml
host_vars/srv.example.com/lp-service.yml
```

- To speedup the execution let's set some variables (2-4) to *false*.

```
shell> cat host_vars/srv.example.com/lp-common.yml
lp_debug: false
lp_backup_conf: false
lp_flavors_enable: false
```

- Create users.

```
shell> cat host_vars/srv.example.com/lp-users.yml
lp_users:
  - {name: ansible,
     shell: /bin/sh}
  - {name: admin,
     shell: /bin/bash}
```

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```
lp_users_groups:
  - {name: admin,
     groups: "adm, dialout"}
```

- Configure passwords.

```
shell> cat host_vars/srv.example.com/lp-passwords.yml
lp_passwords: true
lp_passwordstore: true
lp_passwordstore_create: false
lp_passwordstore_overwrite: false
```

- Install packages and enable autoremove.

```
shell> cat host_vars/srv.example.com/lp-packages.yml
lp_packages_autoremove: true
lp_packages_install:
  - ansible
  - ansible-lint
  - ansible-tower-cli
```

- Configure services.

```
shell> cat host_vars/srv.example.com/lp-service.yml
lp_service_debug: true
lp_service:
  - {name: ssh, state: started, enabled: true}
```

- Text syntax and review variables

```
shell> ansible-playbook linux-postinstall.yml -e 'lp_debug=true' -CD
```

- Install packages

```
shell> ansible-playbook linux-postinstall.yml -t lp_packages
```

- Display variables

```
shell> ansible-playbook linux-postinstall.yml -t lp_debug -e 'lp_debug=true'
```

- Run the playbook

```
shell> ansible-playbook linux-postinstall.yml
```

CHAPTER

TWO

USER'S GUIDE

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2.1 Introduction

- Ansible role: linux_postinstall
- Supported systems: Ubuntu
- Requirements: ansible_lib

<TBD>

2.2 Installation

The most convenient way how to install an Ansible role is to use Ansible Galaxy CLI `ansible-galaxy`. The utility comes with the standard Ansible package and provides the user with a simple interface to the Ansible Galaxy's services. For example, take a look at the current status of the role

```
shell> ansible-galaxy info vbotka.linux_postinstall
```

and install it

```
shell> ansible-galaxy install vbotka.linux_postinstall
```

Install the library of tasks

```
shell> ansible-galaxy install vbotka.ansible_lib
```

See also:

- To install specific versions from various sources see Installing content.
- Take a look at other roles `shell> ansible-galaxy search --author=vbotka`

2.3 Playbook

Below is a simple playbook that calls this role at a single host srv.example.com (2)

```
shell> cat linux-postinstall.yml
- hosts: srv.example.com
  gather_facts: true
  connection: ssh
  remote_user: admin
  become: yes
  become_user: root
  become_method: sudo
  roles:
    - vbotka.linux_postinstall
```

Note: `gather_facts: true` (3) must be set to gather facts needed to evaluate OS-specific options of the role. For example to install packages the variable *ansible_os_family* is needed to select the appropriate Ansible module.

See also:

- For details see Connection Plugins (4-5)
- and Understanding Privilege Escalation (6-8).

2.4 Debug

To see additional debug information enable debug output in the configuration

```
lp_debug: true
```

, or set the extra variable in the command:

```
shell> ansible-playbook linux_postinstall.yml -e 'lp_debug=true'
```

Note: The debug output of this role is optimized for the `yaml` callback plugin. Set this plugin for example in the environment `shell> export ANSIBLE_STDOUT_CALLBACK=yaml`.

See also:

- Playbook Debugger

2.5 Tags

The tags provide a very useful tool to run selected tasks of the role. To see what tags are available list the tags of the role with the command:

```
shell> ansible-playbook linux-postinstall.yml --list-tags

playbook: linux-postinstall.yml

play #1 (srv.example.com): srv.example.com TAGS: []
      TASK TAGS: [always, lp_acpi, lp_acpi_actions, lp_acpi_events, lp_aliases, lp_
↪apparmor, lp_apparmor_disable, lp_apparmor_enforce, lp_apparmor_packages, lp_
↪apparmor_profiles, lp_apparmor_service, lp_authorized_keys, lp_auto_upgrades, lp_
↪autofs, lp_bluetooth, lp_cron, lp_cron_tab, lp_cron_var, lp_debsums, lp_debsums_
↪debug, lp_debsums_default_conf, lp_debsums_ignore_conf, lp_debsums_packages, lp_
↪debug, lp_fstab, lp_gpg, lp_gpsd, lp_gpsd_bt_rfcom, lp_gpsd_config, lp_gpsd_group,␣
↪lp_gpsd_packages, lp_gpsd_service, lp_grub, lp_hostname, lp_hosts, lp_iptables, lp_
↪kvm, lp_kvm_packages, lp_latex, lp_latex_dir, lp_latex_labels, lp_latex_macros, lp_
↪latex_packages, lp_libvirt, lp_libvirt_conf, lp_libvirt_debug, lp_libvirt_guests_
↪service, lp_libvirt_libvirtd_service, lp_libvirt_pkg, lp_lid, lp_logrotate, lp_
↪modemmanager, lp_modules, lp_netplan, lp_nfsd, lp_nfsd_exports, lp_nfsd_packages,␣
↪lp_nfsd_service, lp_packages, lp_packages_auto, lp_packages_install, lp_packages_
↪remove, lp_packages_selections_postinstall, lp_packages_selections_preinstall, lp_
↪passwords, lp_pm, lp_postfix, lp_postfix_conf, lp_postfix_service, lp_reboot, lp_
↪repos, lp_repos_keys_manage, lp_repos_manage, lp_resolvconf, lp_resolvconf_confd_
↪head, lp_resolvconf_debug, lp_resolvconf_packages, lp_resolvconf_service, lp_
↪service, lp_service_auto, lp_service_debug, lp_service_general, lp_smart, lp_smart_
↪conf, lp_smart_packages, lp_smart_service, lp_speechd, lp_ssh, lp_sshd, lp_sshd_
↪config, lp_sshd_service, lp_sudoers, lp_swap, lp_swap_fstab, lp_swap_swapfile, lp_
↪sysctl, lp_timesyncd, lp_timesyncd_conf, lp_timesyncd_debug, lp_timesyncd_service,␣
↪lp_timezone, lp_tlp, lp_tlp_conf, lp_tlp_packages, lp_tlp_service, lp_udev, lp_udev_
↪service, lp_ufw, lp_ufw_conf, lp_ufw_debug, lp_ufw_packages, lp_ufw_reload, lp_ufw_
↪reset, lp_ufw_service, lp_users, lp_vars, lp_virtualbox, lp_virtualbox_keys, lp_
↪virtualbox_pkg, lp_virtualbox_repos, lp_virtualbox_services, lp_wpa_action_script_
↪dir, lp_wpa_action_script_file, lp_wpagui, lp_wpagui_disableNM, lp_wpagui_mask_NM,␣
↪lp_wpagui_packages, lp_wpasupplicant, lp_wpasupplicant_conf, lp_wpasupplicant_debug,
↪ lp_wpasupplicant_packages, lp_xen, lp_xen_default_grub, lp_xen_global, lp_xen_
↪packages, lp_xorg, lp_xorg_conf, lp_zeitgeist, lp_zfs, lp_zfs_debug, lp_zfs_manage,␣
↪lp_zfs_mountpoints, lp_zfs_packages]
```

For example, display the list of the variables and their values with the tag `lp_debug` (when the debug is enabled `lp_debug: true`).

```
shell> ansible-playbook linux_postinstall.yml -t lp_debug
```

See what packages will be installed

```
shell> ansible-playbook linux_postinstall -t lp_packages --check
```

Install packages and exit the play

```
shell> ansible-playbook linux_postinstall.yml -t lp_packages
```

2.6 Variables

In this chapter we describe role's default variables stored in the directory `defaults`.

See also:

- Ansible variable precedence: Where should I put a variable?

2.6.1 Default variables

<TBD>

[defaults/main.yml]

```
---
# linux_postinstall defaults
#
# Put distro and flavor specific vars and overrides to the vars
# directory.

lp_debug: false
lp_backup_conf: false

lp_install_retries: 5
lp_install_delay: 2

lp_repos: []
lp_repos_keys: []

lp_packages_auto: false
lp_packages_install: []
lp_packages_remove: []
lp_packages_selections_preinstall: []
lp_packages_selections_postinstall: []
lp_packages_autoremove: false

lp_package_state: present               # apt and yum support "latest"
lp_package_state_remove: absent         # see "remove" vs. "purge"
lp_package_install_dryrun: false

lp_modules: []
lp_modules_blacklist: []
lp_modules_blacklist_path: /etc/modprobe.d
lp_modules_options: []
lp_modules_options_path: /etc/modprobe.d

lp_sysctl_vars: []

lp_udev: true
lp_udev_enable: true
lp_udev_rules_dir: /etc/udev/rules.d
lp_udev_rules_template: udev-rules.j2
lp_udev_rules: {}
```

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```
lp_udev_persistent_net_template: persistent-net.rules.j2
lp_udev_persistent_net_rules_file: 70-persistent-net.rules
lp_udev_persistent_net_rules: []
lp_udev_hci_name_rules_file: 71-hci-name.rules
lp_udev_hci_name_rules: []
lp_udev_hci_run_rules_file: 72-hci-run.rules
lp_udev_hci_run_rules: []

lp_wpagui: false
lp_wpagui_nm_override: manual

lp_iptables: false
lp_iptables_type: default
lp_iptables_wan_if: eth0
lp_iptables_lan_if: eth1
lp_iptables_lan: 10.1.0.0/24
lp_iptables_INPUT_if: []
lp_iptables_INPUT_net: []

lp_users: []
lp_users_groups: []

lp_passwords: false
lp_passwords_debug: false
lp_passwords_debug_classified: false
lp_passwords_fail_gracefully: false
lp_password_update_password: always
lp_passwordstore: false
lp_passwordstore_debug: false
lp_passwordstore_backup: false
lp_passwordstore_create: false
lp_passwordstore_length: 16
lp_passwordstore_nosymbols: false
lp_passwordstore_overwrite: false
lp_passwordstore_passwordstore: ~/.password-store
lp_passwordstore_returnall: false
lp_passwordstore_subkey: password
lp_passwordstore_idempotent_password_hash: true

lp_aliases: false
lp_aliases_config: []

lp_authorized_key: []

lp_hostname: ""

lp_hosts: []

lp_fqdn: ""

lp_grub: true
lp_grub_default: []

lp_kvm: false

lp_xen: false
lp_xen_dom0_mem: 512M
```

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```
lp_xen_dom0_mem_max: 512M
lp_xen_XEN_OVERRIDE_GRUB_DEFAULT: 0
lp_xen_default_grub_conf:
  - key: GRUB_CMDLINE_XEN_DEFAULT
    value: "\"dom0_mem={{ lp_xen_dom0_mem }}, max:{{ lp_xen_dom0_mem_max }}\""
  - key: XEN_OVERRIDE_GRUB_DEFAULT
    value: "{{ lp_xen_XEN_OVERRIDE_GRUB_DEFAULT }}"
lp_xen_global: []

lp_latex: false
lp_latex_download_timeout: 20
lp_latex_macros: []
lp_latex_get_url_ignore_errors: false

lp_auto_upgrades: false
lp_auto_upgrades_enable: false

lp_auto_upgrades_Update_Package_Lists: 0
lp_auto_upgrades_Unattended_Upgrade: 0

lp_pm: false
lp_pm_sleepd: {}

lp_ssh: false
lp_ssh_config: []

lp_sshd: false
lp_sshd_enable: false
lp_sshd_config: []

lp_bluetooth: false
lp_bluetooth_enable: false
lp_bluetooth_main_conf: []

lp_xorg_conf_dir: /usr/share/X11/xorg.conf.d
lp_xorg_conf: []

lp_cron_tab: []
lp_cron_var: []

lp_modemmanager: true
lp_modemmanager_enable: true
lp_modemmanager_override: ""

lp_gpsd: false
lp_gpsd_enable: false
lp_gpsd_START_DAEMON: "true"
lp_gpsd_USBAUTO: "true"
lp_gpsd_DEVICES: /dev/rfcomm0
lp_gpsd_GPSD_OPTIONS: -b
lp_gpsd_bt_rfcomm: []

lp_postfix: true
lp_postfix_enable: true
lp_postfix_main_conf: []

lp_smart: false
```

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```
lp_smart_enable: false
lp_smart_debug: false
lp_smart_packages:
  - smartmontools
lp_smart_service: smartmontools
lp_smart_devicescan: false
lp_smart_conf_file: /etc/smartd.conf
lp_smart_conf_owner: root
lp_smart_conf_group: root
lp_smart_conf_mode: "0644"
lp_smart_devices: []

lp_virtualbox: false
lp_virtualbox_enable: false
lp_virtualbox_ignore_errors: false
lp_virtualbox_version: 5.2
lp_virtualbox_keys:
  - https://www.virtualbox.org/download/oracle_vbox_2016.asc
  - https://www.virtualbox.org/download/oracle_vbox.asc
lp_virtualbox_packages:
  - "virtualbox-{{ lp_virtualbox_version }}"

lp_zeitgeist: true

lp_lid: false
lp_lid_logind_conf: /etc/systemd/logind.conf
lp_lid_logind_conf_vars: []
lp_lid_upower_conf: /etc/UPower/UPower.conf
lp_lid_upower_conf_vars: []

lp_acpi: false
lp_acpi_dir: /etc/acpi
lp_acpi_owner: root
lp_acpi_group: root
lp_acpi_event_mode: "0644"
lp_acpi_action_mode: "0755"
lp_acpi_events: {}
lp_acpi_actions: {}

lp_speechd: true
lp_speechd_enable: true

lp_sudoers_owner: root
lp_sudoers_group: root
lp_sudoers_mode: "0440"
lp_sudoers_conf:
  - {line: "#includedir /etc/sudoers.d", state: "present"}
lp_sudoers_01: []

lp_nfsd: false
lp_nfsd_enable: false
lp_nfsd_exports: []

lp_netplan: false
lp_netplan_root: /etc/netplan
lp_netplan_owner: root
lp_netplan_group: root
```

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```yaml
lp_netplan_version: 2
lp_netplan_renderer: NetworkManager
lp_netplan_conf: []

lp_apparmor: true
lp_apparmor_disable: []
lp_apparmor_complain: []
lp_apparmor_enforce: []

lp_swap: false
lp_swap_enable: false

lp_timezone: false
lp_timezone_zoneinfo: UTC

lp_timesyncd: true
lp_timesyncd_enable: true
lp_timesyncd_NTP: ""
lp_timesyncd_FallbackNTP: ntp.ubuntu.com
lp_timesyncd_RootDistanceMaxSec: 5
lp_timesyncd_PollIntervalMinSec: 32
lp_timesyncd_PollIntervalMaxSec: 2048

lp_gpg: true
lp_gpg_conf_user: []

lp_wpasupplicant: true
lp_wpasupplicant_debug: false
lp_wpasupplicant_debug_classified: false
lp_wpasupplicant_conf_only: false
lp_wpasupplicant_conf_owner: root
lp_wpasupplicant_conf_group: root
lp_wpasupplicant_conf_mode: "0600"
lp_wpasupplicant_conf_dir: /etc/wpa_supplicant
lp_wpasupplicant_conf_file: wpa_supplicant.conf
lp_wpasupplicant_conf_global:
  - {key: ctrl_interface, value: "{{ lp_wpasupplicant_conf_ctrl_interface }}"}
lp_wpasupplicant_conf: []
lp_wpa_action_script: false
lp_wpa_action_script_dir: /root/bin
lp_wpa_action_script_file: "{{ lp_wpa_action_script_dir }}/wpa_action.sh"
lp_wpa_action_script_owner: root
lp_wpa_action_script_group: root
lp_wpa_action_script_mode: "0770"
lp_wpa_action_script_dhclient: "{{ lp_dhclient }}"
lp_wpa_action_script_pidfile: /var/run/dhclient.$ifname.pid
lp_wpa_action_script_options_connect: "-4 -nw -pf $pidfile -v"
lp_wpa_action_script_options_disconnect: "-4 -r -pf $pidfile -v"
lp_wpa_action_script_logfile: "/tmp/wpa_action.$ifname"

lp_logrotate_conf_file: /etc/logrotate.conf
lp_logrotate_conf_dir: /etc/logrotate.d
lp_logrotate_conf_lines:
  - {line: "include /etc/logrotate.d", state: "present"}
lp_logrotate_conf_blocks: []
lp_logrotate_confd: []

```

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```
lp_tlp: false
lp_tlp_enable: false
lp_tlp_thinkpad: false
lp_tlp_config: []

lp_autofs: false
lp_autofs_enable: false
lp_autofs_conf_file: /etc/autofs.conf
lp_autofs_conf: []
lp_autofs_master_conf_file: /etc/auto.master
lp_autofs_master_conf: []
lp_autofs_misc_conf_file: /etc/auto.misc
lp_autofs_misc_conf: []

lp_libvirt: false
lp_libvirt_guests_enable: false
lp_libvirt_libvirtd_enable: false
lp_libvirt_conf: []

lp_zfs: false
lp_zfs_debug: false
lp_zfs_manage: []
lp_zfs_mountpoints: []

lp_service_debug: false
lp_service: []
lp_service_enable:
  - udev
  - auto_upgrades
  - sshd
  - bluetooth
  - gpsd
  - postfix
  - smart
  - speechd
  - timesyncd
  - autofs
  - libvirt_libvirtd
  - libvirt_guests

lp_ufw: true
lp_ufw_enable: true
lp_ufw_debug: false
lp_ufw_reset: false
lp_ufw_reload: false
lp_ufw_service: ufw
lp_ufw_conf:
  - {state: enabled, policy: allow}
  - {logging: "on"}

lp_debsums: false
lp_debsums_debug: false
lp_debsums_default_file: /etc/default/debsums
lp_debsums_default_conf:
  - {key: CRON_CHECK, value: never}
lp_debsums_ignore_file: /etc/debsums-ignore
lp_debsums_ignore_conf: []
```

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```
lp_fstab_entries: []

lp_resolvconf: false
lp_resolvconf_enable: false
lp_resolvconf_debug: false
lp_resolvconf_confd_head: []

lp_reboot: false
lp_reboot_debug: false
lp_reboot_force: false
lp_reboot_required_ignore: true
lp_reboot_required_file: /var/run/reboot-required
lp_reboot_required_command: /sbin/needs-restarting -r
lp_reboot_command: "sleep 5 && shutdown -r now"
lp_reboot_wait_connect_timeout: 20
lp_reboot_wait_sleep: 5
lp_reboot_wait_delay: 5
lp_reboot_wait_timeout: 300

# Include default vars for various flavors. For example put vars into
# one of the files below. First found will be included.
#
#     vars/flavors/armbian-<VERSION>-<BOARD>.yml
#     vars/flavors/armbian-<VERSION>.yml
#     vars/flavors/armbian.yml
#     vars/defaults.yml
#
# 1) File with service tasks task/sub/vars-flavors-<flavor>.yml is
#    needed when new flavor is added to lp_flavors. See
#    tasks/sub/vars-flavors-common.yml
# 2) For precedence of vars see tasks/vars.yml

lp_flavors_enable: true
lp_flavors_dir: "{{ inventory_dir ~ '/flavors' }}"
lp_flavors_dir_owner: admin
lp_flavors_dir_group: adm
lp_flavors_dir_mode: "0775"
lp_flavors:
  lsb:
    release_file: /etc/lsb-release
    file_labels: [DISTRIB_ID, DISTRIB_CODENAME]
  os:
    release_file: /etc/os-release
    file_labels: [ID, UBUNTU_CODENAME]
  armbian:
    release_file: /etc/armbian-release
    file_labels: [VERSION, BOARD]

# userland paths
lp_dhclient: /sbin/dhclient

# TODO:
# * lp_virtualbox_services lp_virtualbox_enable
# * lp_tlp_services lp_tlp_enable
# * lp_nfsd_services lp_nfsd_enable

```

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```
# EOF
...
```

Warning: Default value of *lp_passwords_debug_classified* and *lp_wpasupplicant_debug_classified* is *False*. Passwords will be displayed if these variables are enabled.

2.7 Best practice

Display the variables for debug if needed. Then disable this task `lp_debug: false` to speedup the playbook.

```
shell> ansible-playbook linux-postinstall.yml -t lp_debug
```

Install packages automatically. Then disable this task `lp_packages_auto: false` to speedup the playbook.

```
shell> ansible-playbook linux-postinstall.yml -t cl_packages -e "lp_packages_auto=true
↪"
```

The role and the configuration data in the examples are idempotent. Once the installation and configuration have passed there should be no changes reported by *ansible-playbook* when running the playbook repeatedly. Disable debug, and install to speedup the playbook

```
shell> ansible-playbook linux-postinstall.yml
```

CHAPTER

THREE

ANNOTATED SOURCE CODE

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3.1 Tasks

3.1.1 main.yml

Synopsis: Tasks of the playbook.

Description of the task.

[main.yml]

```
---
# tasks linux-postinstall

- import_tasks: vars.yml
  tags: [lp_vars, always]

- import_tasks: debug.yml
  when: lp_debug|bool
  tags: [lp_debug, always]

- import_tasks: swap.yml
  when: ((ansible_os_family == "RedHat") or
         (ansible_os_family == "Debian")) and lp_swap|bool
  tags: lp_swap

- import_tasks: modules.yml
  when: (ansible_os_family == "RedHat") or
         (ansible_os_family == "Debian")
  tags: lp_modules

- import_tasks: udev.yml
  when: ((ansible_os_family == "RedHat") or
         (ansible_os_family == "Debian")) and lp_udev|bool
  tags: lp_udev

- import_tasks: fstab.yml
  when: ((ansible_os_family == "RedHat") or
         (ansible_os_family == "Debian"))
  tags: lp_fstab

- import_tasks: netplan.yml
  when: (ansible_os_family == "Debian") and lp_netplan|bool
  tags: lp_netplan

- import_tasks: timezone.yml
  when: ((ansible_os_family == "RedHat") or
         (ansible_os_family == "Debian")) and lp_timezone|bool
  tags: lp_timezone

- import_tasks: timesyncd.yml
  when: (ansible_os_family == "Debian") and lp_timesyncd|bool
  tags: lp_timesyncd

- import_tasks: repos.yml
  when: ansible_os_family == "Debian"
  tags: lp_repos

```

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```
- import_tasks: packages.yml
  when: (ansible_os_family == "RedHat") or
        (ansible_os_family == "Debian")
  tags: lp_packages

- import_tasks: auto_upgrades.yml
  when: (ansible_os_family == "Debian") and lp_auto_upgrades|bool
  tags: lp_auto_upgrades

- import_tasks: sysctl.yml
  when: (ansible_os_family == "RedHat") or
        (ansible_os_family == "Debian")
  tags: lp_sysctl

- import_tasks: zfs.yml
  when: (ansible_os_family == "Debian") and lp_zfs|bool
  tags: lp_zfs

- import_tasks: hostname.yml
  when: (ansible_os_family == "RedHat") or
        (ansible_os_family == "Debian")
  tags: lp_hostname

- import_tasks: hosts.yml
  when: (ansible_os_family == "RedHat") or
        (ansible_os_family == "Debian")
  tags: lp_hosts

- import_tasks: iptables.yml
  when: (ansible_os_family == "Debian") and lp_iptables|bool
  tags: lp_iptables

- import_tasks: grub.yml
  when: (ansible_os_family == "Debian") and lp_grub|bool
  tags: lp_grub
  # https://unix.stackexchange.com/questions/152222/
  # equivalent-of-update-grub-for-rhel-fedora-centos-systems

- import_tasks: users.yml
  when: (ansible_os_family == "RedHat" ) or
        (ansible_os_family == "Debian" )
  tags: lp_users

- import_tasks: passwords.yml
  when: (ansible_os_family == "RedHat" ) or
        (ansible_os_family == "Debian" ) and lp_passwords|bool
  tags: lp_passwords

- import_tasks: sudoers.yml
  when: (ansible_os_family == "RedHat" ) or
        (ansible_os_family == "Debian" )
  tags: lp_sudoers

- import_tasks: authorized_keys.yml
  when: (ansible_os_family == "RedHat" ) or
        (ansible_os_family == "Debian" )
  tags: lp_authorized_keys
```

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```
105
106 - import_tasks: aliases.yml
107   when: ((ansible_os_family == "RedHat" ) or
108         (ansible_os_family == "Debian" )) and lp_aliases|bool
109   tags: lp_aliases
110
111 - import_tasks: pm-utils.yml
112   when: (ansible_os_family == "Debian") and
113         lp_pm
114   tags: lp_pm
115
116 - import_tasks: ssh.yml
117   when: ((ansible_os_family == "RedHat" ) or
118         (ansible_os_family == "Debian" )) and lp_ssh|bool
119   tags: lp_ssh
120
121 - import_tasks: sshd.yml
122   when: ((ansible_os_family == "RedHat" ) or
123         (ansible_os_family == "Debian" )) and lp_sshd|bool
124   tags: lp_sshd
125
126 - import_tasks: bluetooth.yml
127   when: (ansible_os_family == "Debian") and lp_bluetooth|bool
128   tags: lp_bluetooth
129
130 - import_tasks: xorg.yml
131   when: ansible_os_family == "Debian"
132   tags: lp_xorg
133
134 - import_tasks: cron.yml
135   when: (ansible_os_family == "RedHat" ) or
136         (ansible_os_family == "Debian" )
137   tags: lp_cron
138
139 - import_tasks: modemmanager.yml
140   when: (ansible_os_family == "Debian") and lp_modemmanager|bool
141   tags: lp_modemmanager
142
143 - import_tasks: gpsd.yml
144   when: (ansible_os_family == "Debian") and lp_gpsd|bool
145   tags: lp_gpsd
146
147 - import_tasks: postfix.yml
148   when: ((ansible_os_family == "RedHat" ) or
149         (ansible_os_family == "Debian" )) and lp_postfix|bool
150   tags: lp_postfix
151
152 - import_tasks: smart.yml
153   when: (ansible_os_family == "Debian") and lp_smart|bool
154   tags: lp_smart
155
156 - import_tasks: apparmor.yml
157   when: (ansible_os_family == "Debian") and lp_apparmor|bool
158   tags: lp_apparmor
159
160 - meta: flush_handlers
161
```

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```
- import_tasks: zeitgeist.yml
  when: ansible_os_family == "Debian"
  tags: lp_zeitgeist

- import_tasks: lid.yml
  when: (ansible_os_family == "Debian") and lp_lid|bool
  tags: lp_lid

- import_tasks: acpi.yml
  when: (ansible_os_family == "Debian") and lp_acpi|bool
  tags: lp_acpi

- import_tasks: speechd.yml
  when: (ansible_os_family == "Debian") and lp_speechd|bool
  tags: lp_speechd

- import_tasks: nfsd.yml
  when: (ansible_os_family == "Debian") and lp_nfsd|bool
  tags: lp_nfsd

- meta: flush_handlers

- import_tasks: latex.yml
  when: (ansible_os_family == "Debian") and lp_latex|bool
  tags: lp_latex

- import_tasks: kvm.yml
  when: (ansible_os_family == "Debian") and lp_kvm|bool
  tags: lp_kvm

- import_tasks: xen.yml
  when: (ansible_os_family == "Debian") and lp_xen|bool
  tags: lp_xen

- import_tasks: virtualbox.yml
  when: (ansible_os_family == "Debian") and lp_virtualbox|bool
  tags: lp_virtualbox

- import_tasks: wpagui.yml
  when: (ansible_os_family == "Debian") and lp_wpagui|bool
  tags: lp_wpagui

- import_tasks: wpasupplicant.yml
  when: ((ansible_os_family == "RedHat" ) or
         (ansible_os_family == "Debian" )) and lp_wpasupplicant|bool
  tags: lp_wpasupplicant

- import_tasks: gpg.yml
  when: (ansible_os_family == "Debian") and lp_gpg|bool
  tags: lp_gpg

- import_tasks: logrotate.yml
  when: (ansible_os_family == "RedHat" ) or
        (ansible_os_family == "Debian" )
  tags: lp_logrotate

- import_tasks: tlp.yml
```

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```
  when: (ansible_os_family == "Debian") and lp_tlp|bool
  tags: lp_tlp

- import_tasks: autofs.yml
  when: (ansible_os_family == "Debian") and lp_autofs|bool
  tags: lp_autofs

- import_tasks: libvirt.yml
  when: (ansible_os_family == "Debian") and lp_libvirt|bool
  tags: lp_libvirt

- import_tasks: ufw.yml
  when: (ansible_os_family == "Debian") and lp_ufw|bool
  tags: lp_ufw

- import_tasks: debsums.yml
  when: (ansible_os_family == "Debian") and lp_debsums|bool
  tags: lp_debsums

- meta: flush_handlers

- import_tasks: service.yml
  tags: lp_service

- import_tasks: resolvconf.yml
  when: (ansible_os_family == "Debian") and lp_resolvconf|bool
  tags: lp_resolvconf

- import_tasks: reboot.yml
  when: ((ansible_os_family == "RedHat" ) or
         (ansible_os_family == "Debian")) and lp_reboot|bool
  tags: lp_reboot

# EOF
...
```

3.1.2 acpi.yml

Synopsis: Configure acpi.

Description of the task.

[acpi.yml]

```
---
# linux-postinstall acpi

- name: "acpi: Configure {{ lp_acpi_dir }}/events"
  template:
    src: "{{ item.value.template }}"
    dest: "{{ lp_acpi_dir }}/events/{{ item.value.file }}"
    owner: "{{ lp_acpi_owner }}"
    group: "{{ lp_acpi_group }}"
    mode: "{{ lp_acpi_event_mode }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_acpi_events|dict2items }}"
```

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```
  tags: lp_acpi_events

- name: "acpi: Create actions in {{ lp_acpi_dir }}"
  template:
    src: "{{ item.value.template }}"
    dest: "{{ lp_acpi_dir }}/{{ item.value.file }}"
    owner: "{{ lp_acpi_owner }}"
    group: "{{ lp_acpi_group }}"
    mode: "{{ lp_acpi_action_mode }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_acpi_actions|dict2items }}"
  tags: lp_acpi_actions

# EOF
...
```

3.1.3 aliases.yml

Synopsis: Configure aliases.

Description of the task.

[aliases.yml]

```
---

- name: "aliases: Configure /etc/aliases"
  template:
    src: aliases.j2
    dest: /etc/aliases
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  notify: newaliases

# EOF
...
```

3.1.4 apparmor.yml

Synopsis: Configure apparmor.

Description of the task.

[apparmor.yml]

```
---
# linux-postinstall apparmor

- name: "apparmor: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_apparmor_packages }}"
  tags: lp_apparmor_packages

```

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```
- name: "apparmor: Create list of profiles"
  block:
    - name: "apparmor: List profiles"
      shell: "aa-status --json | jq .profiles | jq to_entries"
      register: result
      changed_when: false
    - name: "apparmor: Create list of enforced profiles"
      set_fact:
        lp_apparmor_profiles_enforce: "{{ lp_apparmor_profiles_enforce|default([]) +
↪[ item.key ] }}"
      loop: "{{ result.stdout|default([]) }}"
      when: item.value == 'enforce'
    - name: "apparmor: Create list of complained profiles"
      set_fact:
        lp_apparmor_profiles_complain: "{{ lp_apparmor_profiles_complain|default([])
↪+ [ item.key ] }}"
      loop: "{{ result.stdout|default([]) }}"
      when: item.value == 'complain'
    - name: "apparmor: Debug: List enforced profiles"
      debug:
        var: lp_apparmor_profiles_enforce
      when: lp_debug
    - name: "apparmor: Debug: List complained profiles"
      debug:
        var: lp_apparmor_profiles_complain
      when: lp_debug
  tags: lp_apparmor_profiles

- name: "apparmor: Disable profiles"
  command: aa-disable "{{ item }}"
  loop: "{{ lp_apparmor_disable }}"
  when: item in lp_apparmor_profiles_enforce|default([]) or
        item in lp_apparmor_profiles_complain|default([])
  tags: lp_apparmor_disable

- name: "apparmor: Enforce profiles"
  command: aa-enforce "{{ item }}"
  loop: "{{ lp_apparmor_enforce }}"
  when: item not in lp_apparmor_profiles_enforce|default([])
  tags: lp_apparmor_enforce

- name: "apparmor: Complain profiles"
  command: aa-complain "{{ item }}"
  loop: "{{ lp_apparmor_complain }}"
  when: item not in lp_apparmor_profiles_complain|default([])
  tags: lp_apparmor_enforce

- name: "apparmor: Start and enable apparmor"
  service:
    name: apparmor
    state: started
    enabled: true
  when: lp_apparmor|bool
  tags: lp_apparmor_service

- name: "apparmor: Stop and disable apparmor"
  service:
```

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```
    name: apparmor
    state: stopped
    enabled: false
  when: not lp_apparmor|bool
  tags: lp_apparmor_service

# EOF
...
```

3.1.5 authorized_keys.yml

Synopsis: Configure authorized_keys.

Description of the task.

[authorized_keys.yml]

```
---

- name: "authorized_key: Configure authorized_keys"
  authorized_key:
    user: "{{ item.user }}"
    key: "{{ item.key }}"
    manage_dir: true
  loop: "{{ lp_authorized_keys }}"

# EOF
...
```

3.1.6 autofs.yml

Synopsis: Configure autofs.

Description of the task.

[autofs.yml]

```
---
# linux-postinstall autofs

- name: "autofs: Debug"
  debug:
    msg: "lp_autofs_enable [ {{ lp_autofs_enable }} ]"
  when: lp_debug|bool

- name: "autofs: Configure {{ lp_autofs_conf_file }}"
  lineinfile:
    dest: "{{ lp_autofs_conf_file }}"
    regexp: "^{{ item.key }}\\s*=\\s*(.*)$"
    line: "{{ item.key }} = {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_autofs_conf }}"
  notify: reload autofs

- name: "autofs: Configure {{ lp_autofs_master_conf_file }}"
```

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```
  lineinfile:
    dest: "{{ lp_autofs_master_conf_file }}"
    regexp: "^{{ item.key }}\\s*(.*)$"
    line: "{{ item.key }} {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_autofs_master_conf }}"
  notify: reload autofs

- name: "autofs: Configure {{ lp_autofs_misc_conf_file }}"
  lineinfile:
    dest: "{{ lp_autofs_misc_conf_file }}"
    regexp: "^{{ item.key }}\\s*(.*)$"
    line: "{{ item.key }} {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_autofs_misc_conf }}"
  notify: reload autofs

- name: "autofs: Enable and start autofs"
  systemd:
    name: "{{ lp_autofs_service }}"
    enabled: true
    state: started
  when: lp_autofs_enable|bool

- name: "autofs: Stop and disable autofs"
  systemd:
    name: "{{ lp_autofs_service }}"
    enabled: false
    state: stopped
  when: not lp_autofs_enable|bool

# EOF
...
```

3.1.7 auto_upgrades.yml

Synopsis: Configure auto_upgrades.

Description of the task.

[auto_upgrades.yml]

```
---

- name: "auto_upgrades: Configure /etc/apt/apt.conf.d/20auto-upgrades"
  template:
    src: auto-upgrades.j2
    dest: /etc/apt/apt.conf.d/20auto-upgrades
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"

- name: "auto_upgrades: Disable and stop unattended-upgrades"
  systemd:
    name: "{{ lp_auto_upgrades_service }}"
```

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```
    state: stopped
    enabled: false
  when: not lp_auto_upgrades_enable|bool

- name: "auto_upgrades: Enable and start unattended-upgrades"
  systemd:
    name: "{{ lp_auto_upgrades_service }}"
    state: started
    enabled: true
  when: lp_auto_upgrades_enable|bool

# EOF
...
```

3.1.8 bluetooth.yml

Synopsis: Configure bluetooth.

Description of the task.

[bluetooth.yml]

```
---
# linux-postinstall bluetooth

- name: "bluetooth: Debug"
  debug:
    msg: "lp_bluetooth_enable [{{ lp_bluetooth_enable }}]"
  when: lp_debug|bool

- name: "bluetooth: Configure /etc/bluetooth/main.conf"
  lineinfile:
    dest: /etc/bluetooth/main.conf
    regexp: "^{{ item.key }}\\s*=(.*)$"
    insertbefore: "^{{ '#' }}{{ item.key }}\\s*=(.*)$"
    line: "{{ item.key }} = {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_bluetooth_main_conf }}"
  notify: restart bluetooth

- name: "bluetooth: Enable and start bluetooth"
  systemd:
    name: "{{ lp_bluetooth_service }}"
    enabled: true
    state: started
  when: lp_bluetooth_enable|bool

- name: "bluetooth: Stop and disable bluetooth"
  systemd:
    name: "{{ lp_bluetooth_service }}"
    enabled: false
    state: stopped
  when: not lp_bluetooth_enable|bool

# EOF
...
```

3.1.9 cron.yml

Synopsis: Configure cron.

Description of the task.

[cron.yml]

```
---

- name: "cron: Configure cron variables"
  cronvar:
    name: "{{ item.name }}"
    value: "{{ item.value }}"
    user: "{{ item.user }}"
  loop: "{{ lp_cron_var }}"
  tags: lp_cron_var

- name: "cron: Configure cron"
  cron:
    state: "{{ item.state }}"
    user: "{{ item.user }}"
    name: "{{ item.name }}"
    minute: "{{ item.minute }}"
    hour: "{{ item.hour }}"
    day: "{{ item.day }}"
    month: "{{ item.month }}"
    weekday: "{{ item.weekday }}"
    job: "{{ item.command }}"
  loop: "{{ lp_cron_tab }}"
  tags: lp_cron_tab

# EOF
...
```

3.1.10 debsums.yml

Synopsis: Configure debsums.

Description of the task.

[debsums.yml]

```
---
# linux-postinstall debsums

- name: "debsums: Debug"
  vars:
    msg: |
      lp_debsums_default_file [{{ lp_debsums_default_file }}]
      lp_debsums_default_conf
      {{ lp_debsums_default_conf|to_yaml }}
      lp_debsums_ignore_file [{{ lp_debsums_ignore_file }}]
      lp_debsums_ignore_conf
      {{ lp_debsums_ignore_conf|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debsums_debug|bool
```

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```
  tags: lp_debsums_debug

- name: "debsums: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_debsums_packages }}"
  tags: lp_debsums_packages

- name: "debsums: Configure {{ lp_debsums_default_file }}"
  lineinfile:
    dest: "{{ lp_debsums_default_file }}"
    state: "{{ item.state|default(omit) }}"
    regexp: '^\s*{{ item.key }}\s*=(.*)$'
    line: "{{ item.key }}={{ item.value }}"
    backup: "{{ lp_backup_conf }}"
    create: true
  loop: "{{ lp_debsums_default_conf }}"
  tags: lp_debsums_default_conf

- name: "debsums: Configure {{ lp_debsums_ignore_file }}"
  lineinfile:
    dest: "{{ lp_debsums_ignore_file }}"
    state: "{{ item.state|default(omit) }}"
    line: "{{ item }}"
    backup: "{{ lp_backup_conf }}"
    create: true
  loop: "{{ lp_debsums_ignore_conf }}"
  tags: lp_debsums_ignore_conf

# EOF
...
```

3.1.11 debug.yml

Synopsis: Configure debug.

Description of the task.

[debug.yml]

```
---
# Hint: Get readable output with stdout_callback = yaml

- name: "Debug"
  vars:
    msg: |
      ansible_architecture [{{ ansible_architecture }}]
      ansible_os_family [{{ ansible_os_family }}]
      ansible_distribution [{{ ansible_distribution }}]
      ansible_distribution_major_version [{{ ansible_distribution_major_version }}]
      ansible_distribution_version [{{ ansible_distribution_version }}]
      ansible_distribution_release [{{ ansible_distribution_release }}]
      ansible_python_version [{{ ansible_python_version }}]

      lp_flavors_enable [{{ lp_flavors_enable }}]
      {{ my_release|default([])|to_nice_yaml }}

```

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```
      lp_backup_conf [{{ lp_backup_conf }}]

      lp_acpi [{{ lp_acpi }}]
      lp_aliases [{{ lp_aliases }}]
      lp_apparmor [{{ lp_apparmor }}]
      lp_auto_upgrades [{{ lp_auto_upgrades }}] lp_auto_upgrades_enable [{{ lp_auto_
↪upgrades_enable }}]
      lp_autofs [{{ lp_autofs }}] lp_autofs_enable [{{ lp_autofs_enable }}]
      lp_bluetooth [{{ lp_bluetooth }}] lp_bluetooth_enable [{{ lp_bluetooth_enable }}
↪]
      lp_debsums [{{ lp_debsums }}]
      lp_gpg [{{ lp_gpg }}]
      lp_gpsd [{{ lp_gpsd }}] lp_gpsd_enable [{{ lp_gpsd_enable }}]
      lp_grub [{{ lp_grub }}]
      lp_iptables [{{ lp_iptables }}]
      lp_kvm [{{ lp_kvm }}]
      lp_latex [{{ lp_latex }}]
      lp_libvirt [{{ lp_libvirt }}]
      lp_libvirt_guests_enable [{{ lp_libvirt_guests_enable }}]
      lp_libvirt_libvirtd_enable [{{ lp_libvirt_libvirtd_enable }}]
      lp_lid [{{ lp_lid }}]
      lp_modemmanager [{{ lp_modemmanager }}] lp_modemmanager_enable [{{ lp_
↪modemmanager_enable }}]
      lp_netplan [{{ lp_netplan }}]
      lp_nfsd [{{ lp_nfsd }}] lp_nfsd_enable [{{ lp_nfsd_enable }}]
      lp_packages_autoremove [{{ lp_packages_autoremove }}]
      lp_passwords [{{ lp_passwords }}]
      lp_pm [{{ lp_pm }}]
      lp_postfix [{{ lp_postfix }}] lp_postfix_enable [{{ lp_postfix_enable }}]
      lp_reboot [{{ lp_reboot }}]
      lp_resolvconf [{{ lp_resolvconf }}]
      lp_smart [{{ lp_smart }}] lp_smart_enable [{{ lp_smart_enable }}]
      lp_speechd [{{ lp_speechd }}] lp_speechd_enable [{{ lp_speechd_enable }}]
      lp_ssh [{{ lp_ssh }}]
      lp_sshd [{{ lp_sshd }}] lp_sshd_enable [{{ lp_sshd_enable }}]
      lp_swap [{{ lp_swap }}] lp_swap_enable [{{ lp_swap_enable }}]
      lp_timesyncd [{{ lp_timesyncd }}] lp_timesyncd_enable [{{ lp_timesyncd_enable }}
↪]
      lp_timezone [{{ lp_timezone }}]
      lp_tlp [{{ lp_tlp }}] lp_tlp_enable [{{ lp_tlp_enable }}]
      lp_ufw [{{ lp_ufw }}]
      lp_virtualbox [{{ lp_virtualbox }}] lp_virtualbox_enable [{{ lp_virtualbox_
↪enable }}]
      lp_wpagui [{{ lp_wpagui }}]
      lp_wpasupplicant [{{ lp_wpasupplicant }}]
      lp_xen [{{ lp_xen }}]
      lp_zeitgeist [{{ lp_zeitgeist }}]
      lp_zfs [{{ lp_zfs }}]

      lp_service
      {{ lp_service | to_yaml }}
      lp_package_state [{{ lp_package_state }}]
      lp_package_state_remove [{{ lp_package_state_remove }}]

  debug:
    msg: "{{ msg.split('\n') }}"

```

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```
# EOF
...
```

3.1.12 fstab.yml

Synopsis: Configure fstab.

Description of the task.

[fstab.yml]

```
---

- name: "fstab: Configure fstab entries"
  mount:
    name: "{{ item.name }}"
    state: "{{ item.state|default('mounted') }}"
    src: "{{ item.src|default(omit) }}"
    fstype: "{{ item.fstype|default(omit) }}"
    opts: "{{ item.opts|default(omit) }}"
    dump: "{{ item.dump|default(omit) }}"
    passno: "{{ item.passno|default(omit) }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_fstab_entries }}"

# EOF
...
```

3.1.13 gpg.yml

Synopsis: Configure gpg.

Description of the task.

[gpg.yml]

```
---
# linux-postinstall gpg

- name: "gpg: Install gpg packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_gpg_packages }}"

- name: "gpg: Configure ~/.gnupg/gpg.conf"
  template:
    src: gpg.conf.j2
    dest: "/home/{{ item.owner }}/.gnupg/gpg.conf"
    owner: "{{ item.owner }}"
    group: "{{ item.owner }}"
    mode: "0600"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_gpg_conf_user }}"

# TODO: import keys

```

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```
# EOF
...
```

3.1.14 gpsd.yml

Synopsis: Configure gpsd.

Description of the task.

[gpsd.yml]

```
---
# linux-postinstall gpsd

- name: "gpsd: Install packages for gpsd"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_gpsd_packages }}"
  tags: lp_gpsd_packages

- name: "gpsd: Add user gpsd to group dialout"
  user:
    name: gpsd
    groups: dialout
    append: true
  tags: lp_gpsd_group

- name: "gpsd: Configure /etc/bluetooth/rfcomm.conf"
  blockinfile:
    dest: /etc/bluetooth/rfcomm.conf
    marker: "# {mark} ANSIBLE MANAGED BLOCK rfcomm{{ item.rfcomm }}"
    insertafter: EOF
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
    block: |
      rfcomm{{ item.rfcomm }} {
        bind {{ item.bind }}
        device {{ item.device }}
        channel {{ item.channel }}
        comment "{{ item.comment }}"
        }
  loop: "{{ lp_gpsd_bt_rfcomm }}"
  notify: restart bluetooth
  tags: lp_gpsd_bt_rfcom

- name: "gpsd: Configure /etc/default/gpsd"
  template:
    src: gpsd.j2
    dest: /etc/default/gpsd
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  notify: restart gpsd
  tags: lp_gpsd_config
```

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```
46
47  - name: "gpsd: Stop and disable gpsd"
48    systemd:
49      name: "{{ lp_gpsd_service }}"
50      state: stopped
51      enabled: false
52    when: not lp_gpsd_enable|bool
53    tags: lp_gpsd_service
54
55  - name: "gpsd: Start and enable gpsd"
56    systemd:
57      name: "{{ lp_gpsd_service }}"
58      state: started
59      enabled: true
60    when: lp_gpsd_enable|bool
61    tags: lp_gpsd_service
62
63  # EOF
64  ...
```

3.1.15 grub.yml

Synopsis: Configure grub.

Description of the task.

[grub.yml]

```
1   ---
2
3   - name: "grub: Debug"
4     when: lp_debug
5     vars:
6       msg: |
7         lp_grub_default
8         {{ lp_grub_default|to_yaml }}
9     debug:
10      msg: "{{ msg.split('\n') }}"
11
12  - name: "grub: Configure /etc/default/grub"
13    lineinfile:
14      dest: /etc/default/grub
15      regexp: "^\\s*{{ item.var }}\\s*=(.*)$"
16      line: "{{ item.var }}={{ item.value }}"
17      backup: "{{ lp_backup_conf|bool }}"
18    loop: "{{ lp_grub_default }}"
19    notify: update grub
20
21  # EOF
22  ...
```

3.1.16 hostname.yml

Synopsis: Configure hostname.

Description of the task.

[hostname.yml]

```
---

# TODO:
# 1) SET/DONT_SET hostname via DHCP
# /etc/dhcp/dhclient.conf
# #send host-name = gethostname();
# request host-name = "myhostname";
# https://askubuntu.com/questions/104918/how-to-get-the-hostname-from-a-dhcp-server
# http://blog.schlomo.schapiro.org/2013/11/setting-hostname-from-dhcp-in-debian.html
# https://askubuntu.com/questions/757423/how-to-force-dhcp-client-to-allow-a-self-defined-domain-name

- name: "hostname: Configure hostname in /etc/hostname"
  template:
    src: hostname.j2
    dest: /etc/hostname
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  when:
    - lp_hostname|length > 0
    - ansible_os_family == "Debian"
#  notify: set hostname

- name: "hostname: Configure hostname"
  hostname:
    name: "{{ lp_hostname }}"
  when: lp_hostname|length > 0

# EOF
...
```

3.1.17 hosts.yml

Synopsis: Configure hosts.

Description of the task.

[hosts.yml]

```
---

- name: "hosts: Debug"
  vars:
    msg: |
      lp_hosts_default_override
      {{ lp_hosts_default_override|default('UNDEFINED')|to_yaml }}
      lp_hosts_default
      {{ lp_hosts_default|to_yaml }}
      lp_hosts
      {{ lp_hosts|to_yaml }}
  debug:
```

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```
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "hosts: Configure hosts in /etc/hosts"
  template:
    src: hosts.j2
    dest: /etc/hosts
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"

# EOF
...
```

3.1.18 iptables.yml

Synopsis: Configure iptables.

Description of the task.

[iptables.yml]

```
---
# linux-postinstall iptables

- name: "iptables: Create /etc/network/if-pre-up.d/iptables"
  template:
    src: iptables-restore.j2
    dest: /etc/network/if-pre-up.d/iptables
    owner: root
    group: root
    mode: "0755"

- name: "iptables: Create /etc/network/iptables
                   using {{ lp_iptables_type }}-iptables.j2"
  template:
    src: "{{ lp_iptables_type }}-iptables.j2"
    dest: /etc/network/iptables
    owner: root
    group: root
    mode: "0644"
  notify: reload iptables

# EOF
...
```

3.1.19 kvm.yml

Synopsis: Configure kvm.

Description of the task.

[kvm.yml]

```yaml
---
# linux-postinstall kvm

- name: "kvm: Debug"
  vars:
    msg: |
      lp_kvm_packages
      {{ lp_kvm_packages|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "kvm: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_kvm_packages }}"
  tags: lp_kvm_packages

# EOF
...
```

3.1.20 latex.yml

Synopsis: Configure latex.

Description of the task.

[latex.yml]

```yaml
---
# linux-postinstall LaTeX

- name: "latex: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_latex_packages }}"
  tags: lp_latex_packages

- name: "latex: Create directory /usr/share/texmf/tex/latex"
  file:
    state: directory
    path: /usr/share/texmf/tex/latex
  tags: lp_latex_dir

- name: "latex: Create directories for macros"
  file:
    state: directory
    path: "{{ item.dest }}"
  loop: "{{ lp_latex_macros }}"
  tags: lp_latex_macros

- name: "latex: Download macros"
  get_url:
    url: "{{ item.url }}"
    dest: "{{ item.dest }}"
    timeout: "{{ lp_latex_download_timeout }}"
  loop: "{{ lp_latex_macros }}"
  ignore_errors: "{{ lp_latex_get_url_ignore_errors }}"
```

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```
  changed_when: false
  tags: lp_latex_labels

# get_url: check mode reports changes with force enabled
# https://github.com/ansible/ansible/issues/25418

# TODO:
# 1) Compile and register labels.sty
# cd /usr/share/texmf/tex/latex/labels/
# latex labels.ins
# texhash /usr/share/texmf

# EOF
...
```

3.1.21 libvirt-conf.yml

Synopsis: Configure libvirt-conf.

Description of the task.

[libvirt-conf.yml]

```
---

- name: "libvirt-conf: Debug"
  debug:
    msg: "{{ item }}"
  when: lp_debug|bool

- name: "libvirt-conf: Configure {{ lp_libvirt_conf_dir }}/{{ item.key }}"
  lineinfile:
    dest: "{{ lp_libvirt_conf_dir }}/{{ item.key }}"
    regexp: "^{{ conf[0] }}(\\s|=)"
    line: "{{ conf[0] }} = {{ conf[1] }}"
    state: "{{ conf[2] | default('present') }}"
    backup: "{{ lp_backup_conf }}"
    create: true
  loop: "{{ item.value }}"
  loop_control:
    loop_var: conf
  notify:
    - reload libvirtd
    - reload libvirt_guests

# EOF
...
```

3.1.22 libvirt.yml

Synopsis: Configure libvirt.

Description of the task.

[libvirt.yml]

```yaml
---
# linux-postinstall libvirt

- name: "libvirt Debug"
  vars:
    msg: |
      lp_libvirt_guests_enable   [{{ lp_libvirt_guests_enable }}]
      lp_libvirt_libvirtd_enable [{{ lp_libvirt_libvirtd_enable }}]
      lp_libvirt_backup [{{ lp_libvirt_backup }}]
      lp_libvirt_conf_owner [{{ lp_libvirt_conf_owner }}]
      lp_libvirt_conf_group [{{ lp_libvirt_conf_group }}]
      lp_libvirt_conf_mode [{{ lp_libvirt_conf_mode }}]
      lp_libvirt_conf_dir [{{ lp_libvirt_conf_dir }}]
      lp_libvirt_packages
      {{ lp_libvirt_packages|to_nice_yaml }}
      lp_libvirt_conf
      {{ lp_libvirt_conf|to_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool
  tags: lp_libvirt_debug

- name: "libvirt: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_libvirt_packages }}"
  tags: lp_libvirt_pkg

- name: "libvirt: Configure"
  include_tasks: libvirt-conf.yml
  loop: "{{ lp_libvirt_conf | dict2items }}"
  tags: lp_libvirt_conf

- name: "libvirt: Start and enable {{ lp_libvirt_libvirtd_service }}"
  service:
    name: "{{ lp_libvirt_libvirtd_service }}"
    state: started
    enabled: true
  when: lp_libvirt_libvirtd_enable|bool
  tags: lp_libvirt_libvirtd_service

- name: "libvirt: Stop and disable {{ lp_libvirt_libvirtd_service }}"
  service:
    name: "{{ lp_libvirt_libvirtd_service }}"
    state: stopped
    enabled: false
  when: not lp_libvirt_libvirtd_enable|bool
  tags: lp_libvirt_libvirtd_service

- name: "libvirt: Start and enable {{ lp_libvirt_guests_service }}"
  service:
    name: "{{ lp_libvirt_guests_service }}"
    state: started
    enabled: true
  when: lp_libvirt_guests_enable|bool
  tags: lp_libvirt_guests_service

- name: "libvirt: Stop and disable {{ lp_libvirt_guests_service }}"
```

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```
  service:
    name: "{{ lp_libvirt_guests_service }}"
    state: stopped
    enabled: false
  when: not lp_libvirt_guests_enable|bool
  tags: lp_libvirt_guests_service


# EOF
...
```

3.1.23 lid.yml

Synopsis: Configure lid.

Description of the task.

[lid.yml]

```
---
# linux-postinstall lid

- name: "lid: Configure {{ lp_lid_logind_conf }}"
  lineinfile:
    dest: "{{ lp_lid_logind_conf }}"
    regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"
    line: "{{ item.var }}={{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_lid_logind_conf_vars }}"
  notify: logind message reboot

- name: "lid: Configure {{ lp_lid_upower_conf }}"
  lineinfile:
    dest: "{{ lp_lid_upower_conf }}"
    regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"
    line: "{{ item.var }}={{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_lid_upower_conf_vars }}"

# EOF
...
```

3.1.24 logrotate.yml

Synopsis: Configure logrotate.

Description of the task.

[logrotate.yml]

```
---
# linux-postinstall logrotate

- name: "logrotate: Install packages for logrotate"
  include_tasks: fn/install-package.yml
```

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```
  loop: "{{ lp_logrotate_packages }}"

- name: "logrotate: Configure blocks in {{ lp_logrotate_conf_file }}"
  blockinfile:
    path: "{{ lp_logrotate_conf_file }}"
    mark: "{{ item.mark }}"
    block: "{{ item.block }}"
    state: "{{ item.state }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_logrotate_conf_blocks }}"

- name: "logrotate: Configure lines in {{ lp_logrotate_conf_file }}"
  lineinfile:
    path: "{{ lp_logrotate_conf_file }}"
    line: "{{ item.line }}"
    state: "{{ item.state }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_logrotate_conf_lines }}"

- name: "logrotate: Configure {{ lp_logrotate_conf_dir }}"
  blockinfile:
    path: "{{ lp_logrotate_conf_dir }}/{{ item.path }}"
    block: "{{ item.conf }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_logrotate_confd }}"

# EOF
...
```

3.1.25 modemmanager.yml

Synopsis: Configure modemmanager.

Description of the task.

[modemmanager.yml]

```
---
# linux-postinstall ModemManager

- name: "modem_manager: Configure /etc/init/modemmanager.override"
  template:
    src: modem-manager-override.j2
    dest: /etc/init/modemmanager.override
    owner: root
    group: root
    mode: "0644"

- name: "modem_manager: Stop and disable ModemManager"
  service:
    name: ModemManager
    state: stopped
    enabled: false
  when: not lp_modemmanager_enable|bool

```

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```
- name: "modem_manager: Start and enable ModemManager"
  service:
    name: ModemManager
    state: started
    enabled: true
  when: lp_modemmanager_enable|bool

# EOF
...
```

3.1.26 modules.yml

Synopsis: Configure modules.

Description of the task.

[modules.yml]

```
---
# linux-postinstall modules

- name: "modules: Debug"
  vars:
    msg: |
      lp_modules_conf [{{ lp_modules_conf }}]
      lp_modules
      {{ lp_modules|to_yaml }}
      lp_modules_options_path [ {{ lp_modules_options_path }}]
      lp_modules_options
      {{ lp_modules_options|to_nice_yaml }}
      lp_modules_blacklist_path [{{ lp_modules_blacklist_path }}]
      lp_modules_blacklist
      {{ lp_modules_blacklist|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "modules: modprobe modules"
  modprobe:
    name: "{{ item.name }}"
    params: "{{ item.params }}"
    state: "{{ item.state|default('present') }}"
  loop: "{{ lp_modules }}"

# Debian
- name: "modules: Configure {{ lp_modules_conf }} in Debian"
  lineinfile:
    dest: "{{ lp_modules_conf }}"
    regexp: "^\\s*{{ item.name }}\\s*(.*)$"
    line: "{{ item.name }} {{ item.params }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_modules }}"
  when:
    - ansible_os_family == "Debian"
    - item.state|default("present") == "present"

```

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```
# RedHat
- name: "modules: Configure {{ lp_modules_conf }} in RedHat"
  lineinfile:
    dest: "{{ lp_modules_conf }}"
    regexp: "^\\s*modprobe\\s+{{ item.name }}\\s*(.*)$"
    line: "modprobe {{ item.name }} {{ item.params }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_modules }}"
  when:
    - ansible_os_family == "RedHat"
    - item.state|default("present") == "present"

- name: "modules: Blacklist modules in {{ lp_modules_blacklist_path }}"
  template:
    src: blacklist-module.j2
    dest: "{{ lp_modules_blacklist_path }}/blacklist-{{ item }}.conf"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_modules_blacklist }}"
  notify: update initramfs

- name: "modules: Set modules options in {{ lp_modules_options_path }}"
  template:
    src: options-module.j2
    dest: "{{ lp_modules_options_path }}/{{ item.module }}.conf"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_modules_options }}"
  notify: update initramfs

# EOF
...
```

3.1.27 netplan.yml

Synopsis: Configure netplan.

Description of the task.

[netplan.yml]

```
---
# linux-postinstall netplan

# Configure 01-network-manager-all.yaml only if it already exists
- name: "netplan: Stat {{ lp_netplan_default }}"
  stat:
    path: "{{ lp_netplan_root }}/{{ lp_netplan_default }}"
  register: result

- name: "netplan: Configure {{ lp_netplan_root }}/{{ lp_netplan_default }}"
  template:
    src: netplan-default.j2
    dest: "{{ lp_netplan_root }}/{{ lp_netplan_default }}"
    owner: "{{ lp_netplan_owner }}"
    group: "{{ lp_netplan_group }}"
    mode: "{{ lp_netplan_mode }}"
    backup: "{{ lp_backup_conf }}"
```

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```
  notify: netplan apply
  when: result.stat.exists|default(false)

- name: "netplan: Configure files in {{ lp_netplan_root }}"
  template:
    src: netplan-conf.j2
    dest: "{{ lp_netplan_root }}/{{ item.file }}"
    owner: "{{ item.owner | default(lp_netplan_owner) }}"
    group: "{{ item.group | default(lp_netplan_group) }}"
    mode: "{{ item.mode | default(lp_netplan_mode) }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_netplan_conf }}"
  notify: netplan apply

# EOF
...
```

3.1.28 nfsd.yml

Synopsis: Configure nfsd.

Description of the task.

[nfsd.yml]

```
---
# linux-postinstall nfsd

- name: "nfsd: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_nfsd_packages }}"
  tags: lp_nfsd_packages

- name: "nfsd: Configure exports"
  template:
    src: exports.j2
    dest: /etc/exports
    owner: root
    group: root
    mode: "0644"
  notify: reload nfsd
  tags: lp_nfsd_exports

- name: "nfsd: Enable and start nfsd services"
  systemd:
    name: "{{ item }}"
    enabled: true
    state: started
  loop: "{{ lp_nfsd_services }}"
  when:
    - lp_nfsd_enable|bool
    - lp_nfsd_services|length > 0
  tags: lp_nfsd_service

- name: "nfsd: Stop and disable nfsd services"
  systemd:
```

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```
    name: "{{ item }}"
    enabled: false
    state: stopped
  loop: "{{ lp_nfsd_services }}"
  when:
    - not lp_nfsd_enable|bool
    - lp_nfsd_services|length > 0
  tags: lp_nfsd_service

# EOF
...
```

3.1.29 packages-auto.yml

Synopsis: Configure packages-auto.

Description of the task.

[packages-auto.yml]

```
---
# linux-postinstall packages-auto

- name: "packages-auto: Init variable local_pkg_lists"
  set_fact:
    local_pkg_lists: []
    local_pkg_list: []
  tags: lp_packages_auto

- name: "packages-auto: List variables ^lp_.*_packages$"
  set_fact:
    local_pkg_lists: "{{ local_pkg_lists +
                      [{'install': item.split('_')[0] + '_' + item.split('_')[1],
                        'packages': item}] }}"
  loop: "{{ hostvars[inventory_hostname].keys()|
            select('match', '^lp_.*_packages$')|
            list }}"
  tags: lp_packages_auto

- name: "packages-auto: Debug"
  debug:
    msg: "[{{ lookup('vars', item.install, default='false')|bool }}]
              packages {{ lookup('vars', item.packages) }}"
  loop: "{{ local_pkg_lists }}"
  tags: lp_packages_auto

- name: "packages-auto: Create local_pkg_list"
  set_fact:
    local_pkg_list: "{{ local_pkg_list + lookup('vars', item.packages) }}"
  loop: "{{ local_pkg_lists }}"
  when: lookup('vars', item.install, default='False')|bool
  tags: lp_packages_auto

- name: "packages-auto: Debug"
  debug:
    var: local_pkg_list
```

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```
  when: lp_debug|bool
  tags: lp_packages_auto

- name: "packages-auto: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ local_pkg_list }}"
  tags: lp_packages_auto

# EOF
...
```

3.1.30 packages.yml

Synopsis: Configure packages.

Description of the task.

[packages.yml]

```
---
# linux-postinstall packages

- name: "packages: Debug"
  vars:
    msg: |
      ansible_os_family [{{ ansible_os_family }}]
      lp_packages_autoremove [{{ lp_packages_autoremove }}]
      lp_packages_selections_preinstall
      {{ lp_packages_selections_preinstall|to_nice_yaml }}
      lp_packages_install
      {{ lp_packages_install|to_nice_yaml }}
      lp_packages_remove
      {{ lp_packages_remove|to_nice_yaml }}
      lp_packages_selections_postinstall
      {{ lp_packages_selections_postinstall|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "packages: Configure package selections before Install/Remove"
  dpkg_selections:
    name: "{{ item.name }}"
    selection: "{{ item.selection }}"
  loop: "{{ lp_packages_selections_preinstall }}"
  when: ansible_os_family == "Debian"
  tags: lp_packages_selections_preinstall

- name: "packages: Install packages listed in variables lp_*_packages"
  include_tasks: packages-auto.yml
  when: lp_packages_auto|bool
  tags: lp_packages_auto

- name: "packages: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_packages_install }}"
  tags: lp_packages_install
```

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```
38
39 - name: "packages: Remove packages"
40   include_tasks: fn/remove-package.yml
41   loop: "{{ lp_packages_remove }}"
42   tags: lp_packages_remove
43
44 - name: "packages: Configure package selections after Install/Remove"
45   dpkg_selections:
46     name: "{{ item.name }}"
47     selection: "{{ item.selection }}"
48   loop: "{{ lp_packages_selections_postinstall }}"
49   when: ansible_os_family == "Debian"
50   tags: lp_packages_selections_postinstall
51
52 # EOF
53 ...
```

3.1.31 passwords.yml

Synopsis: Configure passwords.

Description of the task.

[passwords.yml]

```
1  ---
2
3  - name: "password: Debug"
4    vars:
5      msg: |
6        lp_passwords_fail_gracefully [{{ lp_passwords_fail_gracefully }}]
7        lp_password_update_password [{{ lp_password_update_password }}]
8        lp_passwordstore [{{ lp_passwordstore }}]
9        lp_passwordstore_debug [{{ lp_passwordstore_debug }}]
10       lp_passwordstore_backup [{{ lp_passwordstore_backup }}]
11       lp_passwordstore_create [{{ lp_passwordstore_create }}]
12       lp_passwordstore_length [{{ lp_passwordstore_length }}]
13       lp_passwordstore_nosymbols [{{ lp_passwordstore_nosymbols }}]
14       lp_passwordstore_overwrite [{{ lp_passwordstore_overwrite }}]
15       lp_passwordstore_passwordstore [{{ lp_passwordstore_passwordstore }}]
16       lp_passwordstore_returnall  [{{ lp_passwordstore_returnall }}]
17       lp_passwordstore_subkey [{{ lp_passwordstore_subkey }}]
18       lp_passwordstore_idempotent_password_hash [{{ lp_passwordstore_idempotent_
   ↪password_hash }}]
19       lp_users
20       {% if lp_passwords_debug_classified|bool %}
21       {{ lp_users|default([])|to_nice_yaml }}
22       {% else %}
23       {% for user in lp_users|default([]) %}
24       - userpass: ************
25       {% for k,v in user.items() %}
26       {% if k not in ['userpass'] %}
27         {{ k }}: {{ v }}
28       {% endif %}
29       {% endfor %}
30       {% endfor %}
```

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```
      {% endif %}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_passwords_debug|bool

- name: "passwords: Passwordstore"
  block:
    - name: "passwords: Passwordstore: Retrieve, create, or update userpass"
      include_role:
        name: vbotka.ansible_lib
        tasks_from: al_pws_user_host.yml
        apply:
          vars:
            al_pws_debug: "{{ lp_passwordstore_debug }}"
            al_pws_backup: "{{ lp_passwordstore_backup }}"
            al_pws_create: "{{ lp_passwordstore_create }}"
            al_pws_length: "{{ lp_passwordstore_length }}"
            al_pws_nosymbols: "{{ lp_passwordstore_nosymbols }}"
            al_pws_overwrite: "{{ lp_passwordstore_overwrite }}"
            al_pws_passwordstore: "{{ lp_passwordstore_passwordstore }}"
            al_pws_returnall: "{{ lp_passwordstore_returnall }}"
            al_pws_subkey: "{{ lp_passwordstore_subkey }}"
            al_pws_idempotent_password_hash: "{{ lp_passwordstore_idempotent_password_
↪hash }}"
            al_pws_query: "{{ lp_users }}"
      register: result
    - name: "passwords: Passwordstore: Create my_passwords"
      set_fact:
        my_passwords: "{{ my_passwords|default([]) +
                          [item|dict2items|
                          rejectattr('key', 'equalto', 'userpass')|
                          list|items2dict|
                          combine({'update_password': lp_password_update_password})] }
↪}"
      loop: "{{ al_pws_query_result }}"
      loop_control:
        label: "{{ item.name }}"
    - name: "passwords: Passwordstore: Debug my_passwords"
      debug:
        var: my_passwords
      when: lp_passwords_debug|bool
    - name: "passwords:  Passwordstore: Include users"
      include_tasks: users.yml
      vars:
        lp_users: "{{ my_passwords }}"
  rescue:
    - name: "passwords: Passwordstore: Debug fail"
      debug:
        var: result
      when: lp_passwords_debug_classified|bool
    - name: "passwords: Passwordstore: Fail"
      fail:
        msg: "[ERROR] Passwordstore failed."
      when: not lp_passwords_fail_gracefully|bool
  when: lp_passwordstore|bool

#  EOF
```

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```
...
```

3.1.32 pm-utils.yml

Synopsis: Configure pm-utils.

Description of the task.

[pm-utils.yml]

```
---
# linux-postinstall pm-utils

# TODO:
# 1) add variables: lp_pm_powerd, lp_pm_configd
# 2) add templates: pm-powerd.j2, pm-configd.j2
# 3) add cases: resume, thaw, suspend, hibernate
# 4) install pm-utils

- name: "pm_utils: Configure /etc/pm/sleep.d"
  template:
    src: pm-sleepd.j2
    dest: "/etc/pm/sleep.d/{{ item.value.file }}"
    owner: root
    group: root
    mode: "0755"
    backup: "{{ lp_backup_conf }}"
  with_dict: "{{ lp_pm_sleepd|default({}) }}"
  when: item.value.file|length > 0

# EOF
...
```

3.1.33 postfix.yml

Synopsis: Configure postfix.

Description of the task.

[postfix.yml]

```
---
# linux-postinstall postfix

- name: "postfix: Configure /etc/postfix/main.cf"
  lineinfile:
    dest: /etc/postfix/main.cf
    regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
    line: "{{ item.key }} = {{ item.value }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_postfix_main_conf }}"
  notify: reload postfix
  tags: lp_postfix_conf

```

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```
- name: "postfix: Enable and start postfix"
  systemd:
    name: "{{ lp_postfix_service }}"
    enabled: true
    state: started
  when: lp_postfix_enable|bool
  tags: lp_postfix_service

- name: "postfix: Disable and stop postfix"
  systemd:
    name: "{{ lp_postfix_service }}"
    enabled: false
    state: stopped
  when: not lp_postfix_enable|bool
  tags: lp_postfix_service

# EOF
...
```

3.1.34 reboot.yml

Synopsis: Configure reboot.

Description of the task.

[reboot.yml]

```
---
# linux-postinstall reboot

- name: "reboot Debug"
  vars:
    msg: |
      lp_reboot_force [{{ lp_reboot_force }}]
      lp_reboot_required_ignore [{{ lp_reboot_required_ignore }}]
      lp_reboot_required_file [{{ lp_reboot_required_file }}]
      lp_reboot_command [{{ lp_reboot_command }}]
      lp_reboot_wait_connect_timeout [{{ lp_reboot_wait_connect_timeout }}]
      lp_reboot_wait_sleep [{{ lp_reboot_wait_sleep }}]
      lp_reboot_wait_delay [{{ lp_reboot_wait_delay }}]
      lp_reboot_wait_timeout [{{ lp_reboot_wait_timeout }}]
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_reboot_debug|bool

- name: "reboot: Debian test {{ lp_reboot_required_file }}"
  block:
    - name: "reboot: Stat {{ lp_reboot_required_file }}"
      stat:
        path: "{{ lp_reboot_required_file }}"
      register: reboot_required_file_status
    - name: "reboot: Set reboot_required"
      set_fact:
        reboot_required: "{{ reboot_required_file_status.exists|
                             default(false) }}"
  when: ansible_os_family == "Debian"
```

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```
- name: "reboot: RedHat test {{ lp_reboot_required_command }}"
  block:
    - name: "reboot: Run {{ lp_reboot_required_command }}"
      command: "{{ lp_reboot_required_command }}"
      register: reboot_required_cmd_status
    - name: "reboot: Set reboot_required"
      set_fact:
        reboot_required: "{{ (reboot_required_cmd_status.rc != 0)|
                              ternary(true, false) }}"
  when: ansible_os_family == "RedHat"

- name: "reboot: Debug reboot_required"
  debug:
    var: reboot_required
  when: lp_reboot_debug|bool

- name: "reboot: Reboot and wait for connection"
  reboot:
    connect_timeout: "{{ lp_reboot_wait_connect_timeout }}"
    post_reboot_delay: "{{ lp_reboot_wait_delay }}"
    reboot_timeout: "{{ lp_reboot_wait_timeout }}"
  when: (reboot_required|default(false) and
        (not lp_reboot_required_ignore)) or
        lp_reboot_force|bool

# - name: "reboot: Reboot and wait for connection"
#   block:
#     - name: "reboot: Reboot"  # noqa 305
#       shell: "{{ lp_reboot_command }}"
#       async: 1
#       poll: 0
#     - name: "reboot: Wait for connection"
#       wait_for_connection:
#         connect_timeout: "{{ lp_reboot_wait_connect_timeout }}"
#         sleep: "{{ lp_reboot_wait_sleep }}"
#         delay: "{{ lp_reboot_wait_delay }}"
#         timeout: "{{ lp_reboot_wait_timeout }}"
#   when: (reboot_required|default(false) and
#         (not lp_reboot_required_ignore)) or lp_reboot_force

# EOF
...
```

3.1.35 repos.yml

Synopsis: Configure repos.

Description of the task.

[repos.yml]

```
---
# linux-postinstall repos

- name: "repos: Debug"
```

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```
  vars:
    msg: |
      lp_repos_keys
      {{ lp_repos_keys|to_nice_yaml }}
      lp_repos
      {{ lp_repos|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "repos: Manage repo signing keys"
  apt_key:
    data: "{{ item.data|default(omit) }}"
    file: "{{ item.file|default(omit) }}"
    id: "{{ item.id|default(omit) }}"
    keyring: "{{ item.keyring|default(omit) }}"
    keyserver: "{{ item.keyserver|default(omit) }}"
    state: "{{ item.state|default(omit) }}"
    url: "{{ item.url|default(omit) }}"
    validate_certs: "{{ item.validate_certs|default(omit) }}"
  loop: "{{ lp_repos_keys }}"
  register: result
  retries: "{{ lp_install_retries }}"
  until: result is succeeded
  delay: "{{ lp_install_delay }}"
  tags: lp_repos_keys_manage

- name: "repos: Manage repositories"
  apt_repository:
    codename: "{{ item.codename|default(omit) }}"
    filename: "{{ item.filename|default(omit) }}"
    mode: "{{ item.mode|default(omit) }}"
    repo: "{{ item.repo|mandatory }}"
    state: "{{ item.state|default(omit) }}"
    update_cache: "{{ item.update_cache|default(omit) }}"
    validate_certs: "{{ item.validate_certs|default(omit) }}"
  loop: "{{ lp_repos }}"
  tags: lp_repos_manage

# EOF
...
```

3.1.36 resolvconf.yml

Synopsis: Configure resolvconf.

Description of the task.

[resolvconf.yml]

```
---

- name: "resolvconf: Debug"
  vars:
    msg: |
      lp_resolvconf_service [{{ lp_resolvconf_service }}]
```

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```
      lp_resolvconf_enable [{{ lp_resolvconf_enable }}]
      lp_package_state [{{ lp_package_state }}]
      lp_resolvconf_packages
      {{ lp_resolvconf_packages|to_nice_yaml }}
      lp_resolvconf_confd_head_path [{{ lp_resolvconf_confd_head_path }}]
      lp_resolvconf_conf_owner [{{ lp_resolvconf_conf_owner }}]
      lp_resolvconf_conf_group [{{ lp_resolvconf_conf_group }}]
      lp_resolvconf_conf_mode [{{ lp_resolvconf_conf_mode }}]
      lp_resolvconf_confd_head
      {{ lp_resolvconf_confd_head|to_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_resolvconf_debug|bool
  tags: lp_resolvconf_debug

- name: "resolvconf: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_resolvconf_packages }}"
  tags: lp_resolvconf_packages

- name: "resolvconf: Configure {{ lp_resolvconf_confd_head_path }}"
  template:
    src: resolvconf-confd-head.j2
    dest: "{{ lp_resolvconf_confd_head_path }}"
    owner: "{{ lp_resolvconf_conf_owner }}"
    group: "{{ lp_resolvconf_conf_group }}"
    mode: "{{ lp_resolvconf_conf_mode }}"
    backup: "{{ lp_backup_conf }}"
  notify: restart resolvconf
  tags: lp_resolvconf_confd_head

- name: "resolvconf: Enable and start resolvconf"
  systemd:
    name: "{{ lp_resolvconf_service }}"
    enabled: true
    state: started
  when: lp_resolvconf_enable|bool
  tags: lp_resolvconf_service

- name: "resolvconf: Disable and stop resolvconf"
  systemd:
    name: "{{ lp_resolvconf_service }}"
    enabled: false
    state: stopped
  when: not lp_resolvconf_enable|bool
  tags: lp_resolvconf_service

# EOF
...
```

3.1.37 service.yml

Synopsis: Configure service.

Description of the task.

[service.yml]

```
---
# linux-postinstall service

- name: "service: Set my_service_name_vars"
  set_fact:
    my_service_name_vars: "{{ my_service_name_vars|default([]) +
                              [{item: lookup('vars', 'lp_' + item + '_service')}] }}"
  loop: "{{ lp_service_enable }}"
  when: lookup('vars', 'lp_' + item, default='false')
  tags: lp_service_debug

- name: "service: Set my_service_enable_vars"
  set_fact:
    my_service_enable_vars: "{{ my_service_enable_vars|default([]) +
                                [{item: lookup('vars', 'lp_' + item + '_enable')}] }}"
  loop: "{{ lp_service_enable }}"
  when: lookup('vars', 'lp_' + item, default='false')
  tags: lp_service_debug

- name: "service: Debug print"
  debug:
    msg: "{{ my_msg.split('\n') }}"
  vars:
    my_msg: |
      lp_service
      {{ lp_service|to_nice_yaml }}
      lp_service_enable
      {{ lp_service_enable|to_nice_yaml }}
      my_service_name_vars
      {{ my_service_name_vars|default([])|to_nice_yaml }}
      my_service_enable_vars
      {{ my_service_enable_vars|default([])|to_nice_yaml }}
  when: lp_service_debug|bool
  tags: lp_service_debug

- name: "service: Automaticaly enable or disable services managed by this role"
  service:
    name: "{{ lookup('vars', 'lp_' + item + '_service') }}"
    enabled: "{{ lookup('vars', 'lp_' + item + '_enable') }}"
  loop: "{{ lp_service_enable }}"
  when: lookup('vars', 'lp_' + item, default='false')
  tags: lp_service_auto

- name: "service: General managent of services"
  service:
    name: "{{ item.name }}"
    state: "{{ item.state|default(omit) }}"
    enabled: "{{ item.enabled|default(omit) }}"
    arguments: "{{ item.arguments|default(omit) }}"
    pattern: "{{ item.pattern|default(omit) }}"
    runlevel: "{{ item.runlevel|default(omit) }}"
    sleep: "{{ item.sleep|default(omit) }}"
    use: "{{ item.use|default('omit') }}"
  loop: "{{ lp_service }}"
  when: (item.state is defined) or
        (item.enabled is defined)
```

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```
  tags: lp_service_general

# TODO: Mask a service. Do not allow any servce to activate a masked
# service. See tasks/wpagui.yml

# EOF
...
```

3.1.38 smart.yml

Synopsis: Configure smart.

Description of the task.

[smart.yml]

```
---
# linux-postinstall smart

- name: "smart: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_smart_packages }}"
  tags: lp_smart_packages

- name: "smart: Configure {{ lp_smart_conf_file }}. Do not scan for devices"
  lineinfile:
    state: absent
    dest: "{{ lp_smart_conf_file }}"
    regexp: "^\\s*DEVICESCAN\\s*(.*)$"
    owner: "{{ lp_smart_conf_owner }}"
    group: "{{ lp_smart_conf_group }}"
    mode: "{{ lp_smart_conf_mode }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  when: not lp_smart_devicescan|bool
  notify: reload smart
  tags: lp_smart_conf

- name: "smart: Configure devices in {{ lp_smart_conf_file }}"
  lineinfile:
    dest: "{{ lp_smart_conf_file }}"
    regexp: "{{ item.regexp }}"
    line: "{{ item.line }}"
    owner: "{{ lp_smart_conf_owner }}"
    group: "{{ lp_smart_conf_group }}"
    mode: "{{ lp_smart_conf_mode }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_smart_devices }}"
  notify: reload smart
  tags: lp_smart_conf

- name: "smart: Start and enable smart"
  service:
    name: "{{ lp_smart_service }}"
    state: started
```

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```
    enabled: true
  register: result
  when: lp_smart_enable|bool
  tags: lp_smart_service

- name: "smart: Debug service"
  debug:
    var: result
  when: lp_smart_debug|bool

- name: "smart: Stop and disable smart"
  service:
    name: "{{ lp_smart_service }}"
    state: stopped
    enabled: false
  register: result
  when: not lp_smart_enable|bool
  tags: lp_smart_service

- name: "smart: Debug service"
  debug:
    var: result
  when: lp_smart_debug|bool

# EOF
...
```

3.1.39 speechd.yml

Synopsis: Configure speechd.

Description of the task.

[speechd.yml]

```
---
# linux-postinstall speechd

- name: "speechd: Debug"
  debug:
    msg: "lp_speechd_enable [{{ lp_speechd_enable }}]"
  when: lp_debug|bool

- name: "speechd: Enable and start speech-dispatcher"
  systemd:
    name: "{{ lp_speechd_service }}"
    enabled: true
    state: started
  when: lp_speechd_enable|bool

- name: "speechd: Stop and disable speech-dispatcher"
  systemd:
    name: "{{ lp_speechd_service }}"
    enabled: false
    state: stopped
  when: not lp_speechd_enable|bool
```

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```

# EOF
...
```

3.1.40 sshd.yml

Synopsis: Configure sshd.

Description of the task.

[sshd.yml]

```
---
# linux-postinstall sshd

- name: "sshd: Configure /etc/ssh/sshd_config"
  lineinfile:
    dest: /etc/ssh/sshd_config
    regexp: "^\\s*{{ item.key }}\\s*(.*)$"
    insertbefore: "^{{ '#' }}{{ item.key }}\\s*(.*)$"
    line: "{{ item.key }} {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
    validate: "{{ lp_sshd_path }} -t -f %s"
  loop: "{{ lp_sshd_config }}"
  notify: reload sshd
  tags: lp_sshd_config

- name: "sshd: Enable and start sshd"
  systemd:
    name: "{{ lp_sshd_service }}"
    enabled: true
    state: started
  when: lp_sshd_enable|bool
  tags: lp_sshd_service

- name: "sshd: Disable and stop sshd"
  systemd:
    name: "{{ lp_sshd_service }}"
    enabled: false
    state: stopped
  when: not lp_sshd_enable|bool
  tags: lp_sshd_service

# EOF
...
```

3.1.41 ssh.yml

Synopsis: Configure ssh.

Description of the task.

[ssh.yml]

```yaml
---
# linux-postinstall ssh

- name: "ssh: Debug"
  vars:
    msg: |
      lp_ssh_config
      {{ lp_ssh_config|to_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "ssh: Configure /etc/ssh/ssh_config"
  template:
    src: ssh_config.j2
    dest: /etc/ssh/ssh_config
    backup: "{{ lp_backup_conf }}"

# EOF
...
```

3.1.42 sudoers.yml

Synopsis: Configure sudoers.

Description of the task.

[sudoers.yml]

```yaml
---
# linux-postinstall sudoers

- name: "sudoers: Configure /etc/sudoers"
  lineinfile:
    path: /etc/sudoers
    line: "{{ item.line }}"
    state: "{{ item.state|default('present') }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_sudoers_conf }}"

- name: "sudoers: Configure /etc/sudoers.d/01"
  lineinfile:
    path: /etc/sudoers.d/01
    line: "{{ item }}"
    owner: "{{ lp_sudoers_owner }}"
    group: "{{ lp_sudoers_group }}"
    mode: "{{ lp_sudoers_mode }}"
    create: true
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_sudoers_01 }}"

# EOF
...
```

3.1.43 swap.yml

Synopsis: Configure swap.

Description of the task.

[swap.yml]

```
---

- name: "swap: Debug"
  vars:
    msg: |
      lp_swap [{{ lp_swap }}]
      lp_swap_enable [{{ lp_swap_enable }}]
      lp_swap_file [{{ lp_swap_file|default("UNDEFINED") }}]
      lp_swap_size [{{ lp_swap_size|default("UNDEFINED") }}]
      lp_swap_stsize [{{ lp_swap_stsize|default("UNDEFINED") }}]
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "swap: Create swapfile {{ lp_swap_file }}"
  shell: sh -c 'if [ ! -e {{ lp_swap_file }} ]; then printf "create"; fi'
  register: command_result
  changed_when: command_result.stdout == "create"
  notify: create and mount swap file
  tags: lp_swap_swapfile

- name: "swap: Change swapfile {{ lp_swap_file }}"
  shell: >
    sh -c
    'if [ -e {{ lp_swap_file }} ] &&
    [ "`stat --format '%s' {{ lp_swap_file }}`" -ne "{{ lp_swap_stsize }}" ];
    then printf "change";
    fi'
  register: command_result
  changed_when: command_result.stdout == "change"
  notify: change and mount swap file
  tags: lp_swap_swapfile

- name: "swap: Create swap entry in /etc/fstab"
  mount:
    name: "none"
    src: "{{ lp_swap_file }}"
    fstype: swap
    opts: sw
    passno: "0"
    dump: "0"
    state: present
    backup: "{{ lp_backup_conf }}"
  when: lp_swap_enable|bool
  tags: lp_swap_fstab

- name: "swap: Remove swap entry from /etc/fstab"
  mount:
    name: "none"
    src: "{{ lp_swap_file }}"
    fstype: swap
```

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```
    opts: sw
    passno: 0
    dump: 0
    state: absent
    backup: "{{ lp_backup_conf }}"
  notify: remove swap file
  when:
    - not lp_swap_enable|bool
    - lp_swap_file is defined
  tags: lp_swap_swapfile

# EOF
...
```

3.1.44 sysctl.yml

Synopsis: Configure sysctl.

Description of the task.

[sysctl.yml]

```
---
# linux-postinstall sysctl

- name: "sysctl: Configure /etc/sysctl.conf"
  lineinfile:
    dest: /etc/sysctl.conf
    regexp: "^\\s*{{ item.var }}\\s*=(.*)$"
    line: "{{ item.var }} = {{ item.value }}"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_sysctl_vars }}"
  notify: load sysctl settings

# EOF
...
```

3.1.45 timesyncd.yml

Synopsis: Configure timesyncd.

Description of the task.

[timesyncd.yml]

```
---

- name: "timesyncd: Debug"
  vars:
    msg: |
      lp_timesyncd [{{ lp_timesyncd }}]
      lp_timesyncd_NTP [{{ lp_timesyncd_NTP }}]
      lp_timesyncd_FallbackNTP [{{ lp_timesyncd_FallbackNTP }}]
      lp_timesyncd_RootDistanceMaxSec [{{ lp_timesyncd_RootDistanceMaxSec }}]
      lp_timesyncd_PollIntervalMinSec [{{ lp_timesyncd_PollIntervalMinSec }}]
```

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```
      lp_timesyncd_PollIntervalMaxSec [{{ lp_timesyncd_PollIntervalMaxSec }}]
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool
  tags: lp_timesyncd_debug

- name: "timesyncd: Configure /etc/systemd/timesyncd.conf"
  template:
    src: timesyncd.conf.j2
    dest: /etc/systemd/timesyncd.conf
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  notify: restart timesyncd
  tags: lp_timesyncd_conf

- name: "timesyncd: Enable and start timesyncd"
  service:
    name: "{{ lp_timesyncd_service }}"
    state: started
    enabled: true
  when: lp_timesyncd_enable|bool
  tags: lp_timesyncd_service

- name: "timesyncd: Disable and stop timesyncd"
  service:
    name: "{{ lp_timesyncd_service }}"
    state: stopped
    enabled: false
  when: not lp_timesyncd_enable|bool
  tags: lp_timesyncd_service

# Notes on CentOS
# * systemd compiled without timesyncd service in CentOS 7 ?
# * use ntpd or chrony only ?
# https://unix.stackexchange.com/questions/286708/
# centos-7-2-minimal-time-synchronization-timedated-and-or-ntpd-chrony
# https://www.freedesktop.org/wiki/Software/systemd/timedated/

# EOF
...
```

3.1.46 timezone.yml

Synopsis: Configure timezone.

Description of the task.

[timezone.yml]

```
---

- name: "timezone: Debug"
  debug:
    msg: "lp_timezone_zoneinfo [{{ lp_timezone_zoneinfo }}]"
```

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```
  when: lp_debug|bool

- name: "timezone: Set timezone {{ lp_timezone_zoneinfo }}"
  timezone:
    name: "{{ lp_timezone_zoneinfo|default('UTC') }}"

# EOF
...
```

3.1.47 tlp.yml

Synopsis: Configure tlp.

Description of the task.

[tlp.yml]

```
---
# linux-postinstall tlp

- name: "tlp: Debug"
  vars:
    msg: |
      lp_tlp_enable [{{ lp_tlp_enable }}]
      lp_tlp_thinkpad [{{ lp_tlp_thinkpad }}]
      lp_tlp_packages
      {{ lp_tlp_packages|to_nice_yaml }}
      lp_tlp_packages_tp
      {{ lp_tlp_packages_tp|to_nice_yaml }}
      lp_tlp_config_file [{{ lp_tlp_config_file }}]
      lp_tlp_config
      {{ lp_tlp_config|to_nice_yaml }}
      lp_tlp_services
      {{ lp_tlp_services|to_nice_yaml }}
      lp_tlp_restart_service [{{ lp_tlp_restart_service }}]
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "tlp: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_tlp_packages }}"
  tags: lp_tlp_packages

- name: "tlp: Install packages for ThinkPad"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_tlp_packages_tp }}"
  when: lp_tlp_thinkpad|bool
  tags: lp_tlp_packages

- name: "tlp: Configure {{ lp_tlp_config_file }}"
  lineinfile:
    dest: "{{ lp_tlp_config_file }}"
    regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
    line: "{{ item.key }}={{ item.value }}"
    create: true
```

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```
  loop: "{{ lp_tlp_config }}"
  notify: restart tlp
  tags: lp_tlp_conf

- name: "tlp: Start and enable tlp"
  systemd:
    name: "{{ item }}"
    state: started
    enabled: true
  loop: "{{ lp_tlp_services }}"
  when: lp_tlp_enable|bool
  tags: lp_tlp_service

- name: "tlp: Stop and disable tlp"
  systemd:
    name: "{{ item }}"
    state: stopped
    enabled: false
  loop: "{{ lp_tlp_services }}"
  when: not lp_tlp_enable|bool
  tags: lp_tlp_service

# EOF
...
```

3.1.48 udev.yml

Synopsis: Configure udev.

Description of the task.

[udev.yml]

```
---
# linux-postinstall udev

- name: "udev: Debug"
  vars:
    msg: |
      lp_udev_rules_dir [{{ lp_udev_rules_dir }}]
      lp_udev_rules_template [{{ lp_udev_rules_template }}]
      lp_udev_rules
      {{ lp_udev_rules|to_nice_yaml }}

      lp_udev_persistent_net_template [{{ lp_udev_persistent_net_template }}]
      lp_udev_persistent_net_rules_file [{{ lp_udev_persistent_net_rules_file }}]
      lp_udev_persistent_net_rules
      {{ lp_udev_persistent_net_rules|to_nice_yaml }}

      lp_udev_hci_name_rules_file [{{ lp_udev_hci_name_rules_file }}]
      lp_udev_hci_name_rules
      {{ lp_udev_hci_name_rules|to_nice_yaml }}

      lp_udev_hci_run_rules_file [{{ lp_udev_hci_run_rules_file }}]
      lp_udev_hci_run_rules
      {{ lp_udev_hci_run_rules|to_nice_yaml }}
```

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```
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

# udev rules
- name: "udev: Configure {{ lp_udev_rules_dir }}"
  template:
    src: "{{ lp_udev_rules_template }}"
    dest: "{{ lp_udev_rules_dir }}/{{ item.key }}"
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_udev_rules|dict2items }}"
  notify: reload udev

# persistent_net
- name: "udev: Configure {{ lp_udev_rules_dir }}/
                         {{ lp_udev_persistent_net_rules_file }}"
  template:
    src: "{{ lp_udev_persistent_net_template }}"
    dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_persistent_net_rules_file }}"
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_udev_persistent_net_rules }}"
  notify: reload udev

# hci name
- name: "udev: Configure {{ lp_udev_rules_dir }}/
                         {{ lp_udev_hci_name_rules_file }}"
  template:
    src: hci-name.rules.j2
    dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_hci_name_rules_file }}"
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_udev_hci_name_rules }}"
  notify: reload udev

# hci run
- name: "udev: Configure {{ lp_udev_rules_dir }}/
                         {{ lp_udev_hci_run_rules_file }}"
  template:
    src: hci-run.rules.j2
    dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_hci_run_rules_file }}"
    owner: root
    group: root
    mode: "0644"
    backup: "{{ lp_backup_conf }}"
  loop: "{{ lp_udev_hci_run_rules }}"
  notify: reload udev

# Service
- name: "udev: Start and enable udev"
```

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```
  service:
    name: "{{ lp_udev_service }}"
    state: started
    enabled: true
  when: lp_udev_enable|bool
  tags: lp_udev_service

- name: "udev: Stop and disable udev"
  service:
    name: "{{ lp_udev_service }}"
    state: stopped
    enabled: false
  when: not lp_udev_enable|bool
  tags: lp_udev_service

# EOF
...
```

3.1.49 ufw.yml

Synopsis: Configure ufw.

Description of the task.

[ufw.yml]

```
---
# linux-postinstall ufw

#   Notes
#
# * Aliases of parameters in ufw module not implemented in task
#   "Configure ufw".
# * It's not necessary to reload ufs after configuration has
#   changed. Module ufw automatically updates the rules.
# * Best practice: First time 'lp_ufw_reset: true'; configure and enable
#   ufs (configuration item {state: 'enabled'} reloads firewall and
#   enables firewall on boot); 'lp_ufw_enable: true' start and enable ufw
#   service.
# * Configuration on the fly: configure and enable ufs.
# * The last configuration item should be {state: 'enabled'}.
# * See: man ufw.

- name: "ufw: Debug"
  vars:
    msg: |
      lp_ufw_enable [{{ lp_ufw_enable }}]
      lp_ufw_reset [{{ lp_ufw_reset }}]
      lp_ufw_reload [{{ lp_ufw_reload }}]
      lp_ufw_packages
      {{ lp_ufw_packages|to_nice_yaml }}
      lp_ufw_conf
      {{ lp_ufw_conf|to_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_ufw_debug|bool
```

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```
  tags: lp_ufw_debug

- name: "ufw: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_ufw_packages }}"
  tags: lp_ufw_packages

- name: "ufw: Disable and reset firewall to installation defaults"
  ufw:
    state: reset
  when: lp_ufw_reset|bool
  tags: lp_ufw_reset

- name: "ufw: Reload firewall"
  ufw:
    state: reloaded
  when: lp_ufw_reload|bool
  tags: lp_ufw_reload

- name: "ufw: Configure ufw"
  ufw:
    comment: "{{ item.comment|default(omit) }}"
    default: "{{ item.default|default(omit) }}"
    delete: "{{ item.delete|default(omit) }}"
    direction: "{{ item.direction|default(omit) }}"
    from_ip: "{{ item.from_ip|default(omit) }}"
    from_port: "{{ item.from_port|default(omit) }}"
    insert: "{{ item.insert|default(omit) }}"
    insert_relative_to: "{{ item.insert_relative_to|default(omit) }}"
    interface: "{{ item.interface|default(omit) }}"
    log: "{{ item.log|default(omit) }}"
    logging: "{{ item.logging|default(omit) }}"
    name: "{{ item.name|default(omit) }}"
    proto: "{{ item.proto|default(omit) }}"
    route: "{{ item.route|default(omit) }}"
    rule: "{{ item.rule|default(omit) }}"
    state: "{{ item.state|default(omit) }}"
    to_ip: "{{ item.to_ip|default(omit) }}"
    to_port: "{{ item.to_port|default(omit) }}"
  loop: "{{ lp_ufw_conf }}"
  tags: lp_ufw_conf

- name: "ufw: Start and enable ufw"
  service:
    name: "{{ lp_ufw_service }}"
    state: started
    enabled: true
  register: result
  when: lp_ufw_enable|bool
  tags: lp_ufw_service

- name: "ufw: Debug enabled service"
  debug:
    var: result
  when:
    - lp_ufw_enable|bool
    - lp_ufw_debug|bool
```

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```
  tags: lp_ufw_service

- name: "ufw: Stop and disable ufw"
  service:
    name: "{{ lp_ufw_service }}"
    state: stopped
    enabled: false
  register: result
  when: not lp_ufw_enable|bool
  tags: lp_ufw_service

- name: "ufw: Debug disabled service"
  debug:
    var: result
  when:
    - not lp_ufw_enable|bool
    - lp_ufw_debug|bool
  tags: lp_ufw_service

# EOF
...
```

3.1.50 users.yml

Synopsis: Configure users.

Description of the task.

[users.yml]

```
---

- name: "users: Debug"
  vars:
    msg: |
      lp_users
      {{ lp_users|default(['UNDEFINED'])|to_nice_yaml }}
      lp_users_groups
      {{ lp_users_groups|default(['UNDEFINED'])|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "users: Manage user accounts"
  user:
    name: "{{ item.name }}"
    authorization: "{{ item.authorization|default(omit) }}"
    comment: "{{ item.comment|default(omit) }}"
    create_home: "{{ item.create_home|default(omit) }}"
    expires: "{{ item.expires|default(omit) }}"
    force: "{{ item.force|default(omit) }}"
    generate_ssh_key: "{{ item.generate_ssh_key|default(omit) }}"
    group: "{{ item.group|default(omit) }}"
    hidden: "{{ item.hidden|default(omit) }}"
    home: "{{ item.home|default(omit) }}"
    local: "{{ item.local|default(omit) }}"
```

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```
    login_class: "{{ item.login_class|default(omit) }}"
    move_home: "{{ item.move_home|default(omit) }}"
    non_unique: "{{ item.non_unique|default(omit) }}"
    password: "{{ item.password|default(omit) }}"
    password_lock: "{{ item.password_lock|default(omit) }}"
    profile: "{{ item.profile|default(omit) }}"
    remove: "{{ item.remove|default(omit) }}"
    role: "{{ item.role|default(omit) }}"
    seuser: "{{  item.seuser|default(omit) }}"
    shell: "{{ item.shell|default(omit) }}"
    skeleton: "{{ item.skeleton|default(omit) }}"
    ssh_key_bits: "{{ item.ssh_key_bits|default(omit) }}"
    ssh_key_comment: "{{ item.ssh_key_comment|default(omit) }}"
    ssh_key_file: "{{ item.ssh_key_file|default(omit) }}"
    ssh_key_passphrase: "{{ item.ssh_key_passphrase|default(omit) }}"
    ssh_key_type: "{{ item.ssh_key_type|default(omit) }}"
    state: "{{ item.state|default(omit) }}"
    system: "{{ item.system|default(omit) }}"
    uid: "{{ item.uid|default(omit) }}"
    update_password: "{{ item.update_password|default(omit) }}"
  loop: "{{ lp_users|default([]) }}"
  loop_control:
    label: "{{ item.name }}"

- name: "users: Add users to additional groups"
  user:
    name: "{{ item.name }}"
    groups: "{{ item.groups }}"
    append: "{{ item.append|default(true) }}"
  loop: "{{ lp_users_groups|default([]) }}"

#  EOF
...
```

3.1.51 vars.yml

Synopsis: Configure vars.

Description of the task.

[vars.yml]

```
---

- name: "vars: Include default vars for
              [{{ ansible_os_family }},
               {{ ansible_distribution }},
               {{ ansible_distribution_release }}]"
  include_vars: "{{ lookup('first_found', params) }}"
  register: result
  vars:
    params:
      files:
        - "{{ ansible_distribution }}-{{ ansible_distribution_release }}.yml"
        - "{{ ansible_distribution }}.yml"
        - "{{ ansible_os_family }}.yml"
```

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```
        - defaults.yml
        - default.yml
      paths:
        - "{{ role_path }}/vars/defaults"

- name: "vars: Debug include default vars from"
  debug:
    var: result.ansible_included_var_files
  when: lp_debug|bool

- name: "vars: Include default vars for various flavors"
  when: lp_flavors_enable|bool
  include_tasks: sub/vars-flavors.yml

- name: "vars: Include custom vars for
              [{{ ansible_os_family }},
               {{ ansible_distribution }},
               {{ ansible_distribution_release }}]"
  register: result
  include_vars: "{{ lookup('first_found', params) }}"
  vars:
    params:
      files:
        - "{{ ansible_distribution }}-{{ ansible_distribution_release }}.yml"
        - "{{ ansible_distribution }}.yml"
        - "{{ ansible_os_family }}.yml"
        - defaults.yml
        - default.yml
      paths:
        - "{{ role_path }}/vars"

- name: "vars: Debug include custom vars from"
  debug:
    var: result.ansible_included_var_files
  when: lp_debug|bool

# EOF
...
```

3.1.52 virtualbox.yml

Synopsis: Configure virtualbox.

Description of the task.

[virtualbox.yml]

```
---
# linux-postinstall virtualbox

- name: "virtualbox: Debug"
  vars:
    msg: |
      ansible_lsb.description [{{ ansible_lsb.codename }}]
      lp_virtualbox [{{ lp_virtualbox }}]
      lp_virtualbox_ignore_errors [{{ lp_virtualbox_ignore_errors }}]
```

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```
      lp_virtualbox_keys [{{ lp_virtualbox_keys }}]
      lp_virtualbox_repos [{{ lp_virtualbox_repos }}]
      lp_virtualbox_install
      {{ lp_virtualbox_install|to_nice_yaml }}
      lp_virtualbox_services
      {{ lp_virtualbox_services|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

# TODO: assert lp_virtualbox_modules are loaded
#       when: lp_virtualbox|bool

- name: "virtualbox: Add signing key of VirtualBox"
  apt_key:
    url: "{{ item }}"
    state: present
  loop: "{{ lp_virtualbox_keys }}"
  register: result
  retries: "{{ lp_install_retries }}"
  until: result is succeeded
  delay: "{{ lp_install_delay }}"
  ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
  tags: lp_virtualbox_keys

- name: "virtualbox: Add repository of VirtualBox"
  apt_repository:
    repo: "{{ item }}"
    state: present
  loop: "{{ lp_virtualbox_repos }}"
  ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
  tags: lp_virtualbox_repos

- name: "virtualbox: Install VirtualBox packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_virtualbox_packages }}"
  ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
  tags: lp_virtualbox_pkg

- name: "virtualbox: Enable and start services"
  service:
    name: "{{ item }}"
    state: started
    enabled: true
  loop: "{{ lp_virtualbox_services }}"
  when: lp_virtualbox_enable|bool
  tags: lp_virtualbox_services

- name: "virtualbox: Disable and stop services"
  service:
    name: "{{ item }}"
    state: stopped
    enabled: false
  loop: "{{ lp_virtualbox_services }}"
  when: not lp_virtualbox_enable|bool
  tags: lp_virtualbox_services

```

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```
# EOF
...
```

3.1.53 wpagui.yml

Synopsis: Configure wpagui.

Description of the task.

[wpagui.yml]

```
---
# linux-postinstall wpa_gui
# Install wpa_gui and disable NetworkManager

- name: "wpagui: Debug"
  vars:
    msg: |
      lp_wpagui_packages
      {{ lp_wpagui_packages|to_nice_yaml }}
      lp_wpagui_systemd
      {{ lp_wpagui_systemd|to_nice_yaml }}
      lp_wpagui_service
      {{ lp_wpagui_service|to_nice_yaml }}
      lp_wpagui_service_mask
      {{ lp_wpagui_service_mask|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool

- name: "wpagui: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_wpagui_packages }}"
  tags: lp_wpagui_packages

- name: "wpagui: Disable NM /etc/init/network-manager.override"
  template:
    src: network-manager-override.j2
    dest: /etc/init/network-manager.override
    owner: root
    group: root
    mode: "0644"
  tags: lp_wpagui_disableNM

- name: "wpagui: Configure managed=false
                in /etc/NetworkManager/NetworkManager.conf"
  lineinfile:
    dest: /etc/NetworkManager/NetworkManager.conf
    regexp: "^\\s*managed\\s*=\\s*(.*)$"
    line: "managed=false"
  tags: lp_wpagui_disableNM

# NetworkManager.service will be stopped and disabled in the next task
# - name: "wpagui: Stop and disable NM"
#  systemd:
#    name: "{{ item }}"
```

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```
#    state: stopped
#    enabled: false
#  loop: "{{ lp_wpagui_systemd }}"
#  tags: lp_wpagui_disableNM

- name: "wpagui: Stop and disable all NM services"
  service:
    name: "{{ item }}"
    state: stopped
    enabled: false
  loop: "{{ lp_wpagui_service }}"
  tags: lp_wpagui_disableNM

- name: "wpagui: Mask NM services"
  command: "systemctl mask {{ item }}"
  args:
    warn: false
  loop: "{{ lp_wpagui_service_mask }}"
  changed_when: false
  tags: lp_wpagui_mask_NM
  #
  # False Positives: Skipping Rules
  # https://github.com/ansible/ansible-lint#false-positives-skipping-rules
  # noqa 303 does not work
  #
  # ansible-lint "systemctl used in place of systemd module" No
  # systemctl / systemd module. #48848
  # https://github.com/ansible/ansible/issues/48848


# EOF
...
```

3.1.54 wpasupplicant.yml

Synopsis: Configure wpasupplicant.

Description of the task.

[wpasupplicant.yml]

```
---

- name: "wpasupplicant: Debug"
  vars:
    msg: |
      lp_package_state [{{ lp_package_state }}]
      lp_wpasupplicant_packages
      {{ lp_wpasupplicant_packages|to_nice_yaml }}
      lp_wpasupplicant_conf_only [{{ lp_wpasupplicant_conf_only }}]
      lp_wpasupplicant_conf_dir [{{ lp_wpasupplicant_conf_dir }}]
      lp_wpasupplicant_conf_file [{{ lp_wpasupplicant_conf_file }}]
      lp_wpasupplicant_conf_owner [{{ lp_wpasupplicant_conf_owner }}]
      lp_wpasupplicant_conf_group [{{ lp_wpasupplicant_conf_group }}]
      lp_wpasupplicant_conf_mode [{{ lp_wpasupplicant_conf_mode }}]
      lp_wpasupplicant_conf_ctrl_interface
```

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```
      [{{ lp_wpasupplicant_conf_ctrl_interface }}]
      lp_wpasupplicant_conf_global
      {{ lp_wpasupplicant_conf_global|to_yaml }}
      lp_wpa_action_script [{{ lp_wpa_action_script }}]
      lp_wpa_action_script_dir [{{ lp_wpa_action_script_dir }}]
      lp_wpa_action_script_file [{{ lp_wpa_action_script_file }}]
      lp_wpa_action_script_owner [{{ lp_wpa_action_script_owner }}]
      lp_wpa_action_script_group [{{ lp_wpa_action_script_group }}]
      lp_wpa_action_script_mode [{{ lp_wpa_action_script_mode }}]
      lp_wpa_action_script_dhclient [{{ lp_wpa_action_script_dhclient }}]
      lp_wpa_action_script_pidfile [{{ lp_wpa_action_script_pidfile }}]
      lp_wpa_action_script_options_connect [{{ lp_wpa_action_script_options_connect }}
↪]
      lp_wpa_action_script_options_disconnect [{{ lp_wpa_action_script_options_
↪disconnect }}]
      lp_wpa_action_script_logfile [{{ lp_wpa_action_script_logfile }}]

      {% if lp_wpasupplicant_debug_classified|bool %}
      lp_wpasupplicant_conf
      {{ lp_wpasupplicant_conf|to_yaml }}
      {% endif %}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_wpasupplicant_debug|bool
  tags: lp_wpasupplicant_debug

- name: "wpasupplicant: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_wpasupplicant_packages }}"
  tags: lp_wpasupplicant_packages

- name: "wpasupplicant: Configure {{ lp_wpasupplicant_conf_dir }}/{{
                                    lp_wpasupplicant_conf_file }}.DEV"
  template:
    src: wpa_supplicant.conf.j2
    dest: "{{ lp_wpasupplicant_conf_dir }}/{{
              lp_wpasupplicant_conf_file }}.{{
              item.dev }}"
    owner: "{{ lp_wpasupplicant_conf_owner }}"
    group: "{{ lp_wpasupplicant_conf_group }}"
    mode: "{{ lp_wpasupplicant_conf_mode }}"
    backup: "{{ lp_backup_conf }}"
  register: lp_wpasupplicant_conf_changes
  notify: reconfigure wpa_supplicant
  loop: "{{ lp_wpasupplicant_conf }}"
  no_log: "{{ not lp_wpasupplicant_debug_classified }}"
  tags: lp_wpasupplicant_conf

- name: "wpasupplicant: Debug: registered lp_wpasupplicant_conf_changes"
  debug:
    var: lp_wpasupplicant_conf_changes
  when: lp_wpasupplicant_debug_classified|bool

# - name: "wpasupplicant: Debug: wpa_cli reconfigure commands"
#  debug:
#    msg: >
#      'sh -c "[ -S {{ lp_wpasupplicant_conf_ctrl_interface }}/\
```

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```
#                   {{ item.item.dev }} ] &&
#      wpa_cli -p {{ lp_wpasupplicant_conf_ctrl_interface }} \
#              -i {{ item.item.dev }} reconfigure"'
#  loop: "{{ lp_wpasupplicant_conf_changes.results }}"
#  when:
#    - item.changed
#    - lp_wpasupplicant_debug

- name: "wpasupplicant: Create dir {{ lp_wpa_action_script_dir }}"
  file:
    state: directory
    path: "{{ lp_wpa_action_script_dir }}"
    owner: "{{ lp_wpa_action_script_owner }}"
    group: "{{ lp_wpa_action_script_group }}"
  when: lp_wpa_action_script|bool
  tags: lp_wpa_action_script_dir

- name: "wpasupplicant: Create script {{ lp_wpa_action_script_file }}"
  template:
    src: wpa_action.sh.j2
    dest: "{{ lp_wpa_action_script_file }}"
    owner: "{{ lp_wpa_action_script_owner }}"
    group: "{{ lp_wpa_action_script_group }}"
    mode: "{{ lp_wpa_action_script_mode }}"
    backup: "{{ lp_backup_conf }}"
  when: lp_wpa_action_script|bool
  tags: lp_wpa_action_script_file

# EOF
...
```

3.1.55 xen.yml

Synopsis: Configure xen.

Description of the task.

[xen.yml]

```
---
# linux-postinstall xen

- name: "xen: Debug"
  vars:
    msg: |
      lp_xen_packages
      {{ lp_xen_packages|to_nice_yaml }}
      lp_xen_dom0_mem
      {{ lp_xen_dom0_mem|to_nice_yaml }}
      lp_xen_default_grub_conf
      {{ lp_xen_default_grub_conf|to_nice_yaml }}
      lp_xen_global
      {{ lp_xen_global|to_nice_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_debug|bool
```

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```
18
19 - name: "xen: Install packages"
20   include_tasks: fn/install-package.yml
21   loop: "{{ lp_xen_packages }}"
22   tags: lp_xen_packages
23
24 - name: "xen: Configure /etc/default/grub"
25   lineinfile:
26     dest: /etc/default/grub
27     regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
28     line: "{{ item.key }}={{ item.value }}"
29     backup: "{{ lp_backup_conf }}"
30   loop: "{{ lp_xen_default_grub_conf }}"
31   notify: update grub
32   tags: lp_xen_default_grub
33
34 - name: "xen: Configure /etc/xen/xl.conf"
35   lineinfile:
36     dest: /etc/xen/xl.conf
37     regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"
38     line: "{{ item.var }}={{ item.value }}"
39     create: true
40     backup: "{{ lp_backup_conf }}"
41   loop: "{{ lp_xen_global }}"
42   tags: lp_xen_global
43
44 # EOF
45 ...
```

3.1.56 xorg.yml

Synopsis: Configure xorg.

Description of the task.

[xorg.yml]

```
1  ---
2
3  - name: "xorg: Configure {{ lp_xorg_conf_dir }}"
4    template:
5      src: xorg.conf.j2
6      dest: "{{ lp_xorg_conf_dir }}/{{ item.file }}"
7      backup: "{{ lp_backup_conf }}"
8    loop: "{{ lp_xorg_conf }}"
9    tags: lp_xorg_conf
10
11 # EOF
12 ...
```

3.1.57 zeitgeist.yml

Synopsis: Configure zeitgeist.

Description of the task.

[zeitgeist.yml]

```
---
# linux-postinstall zeitgeist

# One-way atm
- name: Remove zeitgeist
  apt:
    state: absent
    name: zeitgeist
    purge: true
  when:
    - not lp_zeitgeist|bool
    - ansible_os_family == "Debian"

- name: Remove zeitgeist-*
  apt:
    state: absent
    name: zeitgeist-*
    purge: true
  when:
    - not lp_zeitgeist|bool
    - ansible_os_family == "Debian"

# - name: Disable zeitgeist
#   service:
#     name: zeitgeist
#     state: stopped
#     enabled: no
#   when: not lp_zeitgeist
# "Could not find the requested service zeitgeist"

# for i in zeitgeist-fts zeitgeist; do
# systemctl --user disable $i;
# systemctl --user stop $i;
# systemctl --user mask $i;
# done

# EOF
...
```

3.1.58 zfs.yml

Synopsis: Configure zfs.

Description of the task.

[zfs.yml]

```
---

- name: "zfs: Debug"
  vars:
    msg: |
      lp_zfs_packages
      {{ lp_zfs_packages|to_nice_yaml }}
      lp_zfs_manage
```

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```
      {{ lp_zfs_manage|to_yaml }}
      lp_zfs_mountpoints
      {{ lp_zfs_mountpoints|to_yaml }}
  debug:
    msg: "{{ msg.split('\n') }}"
  when: lp_zfs_debug|bool
  tags: lp_zfs_debug

- name: "zfs: Install packages"
  include_tasks: fn/install-package.yml
  loop: "{{ lp_zfs_packages }}"
  tags: lp_zfs_packages

- name: "zfs: Manage zfs"
  zfs:
    name: "{{ item.name }}"
    state: "{{ item.state }}"
    origin: "{{ item.origin|default(omit) }}"
    extra_zfs_properties: "{{ item.extra_zfs_properties|default(omit) }}"
  loop: "{{ lp_zfs_manage }}"
  tags: lp_zfs_manage

- name: "zfs: Set mode and ownership of zfs mountpoints"
  file:
    state: directory
    path: "{{ item.mountpoint }}"
    owner: "{{ item.owner|default(omit) }}"
    group: "{{ item.group|default(omit) }}"
    mode: "{{ item.mode|default(omit) }}"
  loop: "{{ lp_zfs_mountpoints }}"
  tags: lp_zfs_mountpoints

# EOF
...
```

CHAPTER

FOUR

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CHAPTER

FIVE

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CHAPTER

SIX

INDICES AND TABLES

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