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# **ansible-role-linux-postinstall Documentation**

***Release 1.14.2***

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## 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)

```
1 shell> cat linux-postinstall.yml
2 - hosts: srv.example.com
3   gather_facts: true
4   connection: ssh
5   remote_user: admin
6   become: yes
7   become_user: root
8   become_method: sudo
9   roles:
10    - vbotka.linux_postinstall
```

- Create `host_vars` with customized variables.

```
1 shell> ls -l host_vars/srv.example.com/lp-*
2 host_vars/srv.example.com/lp-common.yml
3 host_vars/srv.example.com/lp-users.yml
4 host_vars/srv.example.com/lp-passwords.yml
5 host_vars/srv.example.com/lp-packages.yml
6 host_vars/srv.example.com/lp-service.yml
```

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

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

- Create users.

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

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

- Configure passwords.

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

- Install packages and enable autoremove.

```
1 shell> cat host_vars/srv.example.com/lp-packages.yml
2 lp_packages_autoremove: true
3 lp_packages_install:
4   - ansible
5   - ansible-lint
6   - ansible-tower-cli
```

- Configure services.

```
1 shell> cat host_vars/srv.example.com/lp-service.yml
2 lp_service_debug: true
3 lp_service:
4   - {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
```

## USER'S GUIDE

**Table of Contents**

- *User's guide*
  - *Introduction*
  - *Installation*
  - *Playbook*
  - *Debug*
  - *Tags*
  - *Tasks*
    - \* *Passwords*
      - *Synopsis*
      - *Passwordstore*
  - *Variables*
  - *Default variables*
  - *Best practice*

## 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)

```
1 shell> cat linux-postinstall.yml
2 - hosts: srv.example.com
3   gather_facts: true
4   connection: ssh
5   remote_user: admin
6   become: yes
7   become_user: root
8   become_method: sudo
9   roles:
10    - 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)
- See also [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 the user with 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,
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_conf_d_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 Tasks

### 2.6.1 Passwords

#### Synopsis

Manage user's passwords. At the moment only `passwordstore` framework is available.

#### Passwordstore

Create, or update passwords of selected users at remote hosts by the *passwordstore.org* *pass* utility. See details of the included task `al_pws_user_host.yml`

---

**Note:** Utility `pass` is required at controller.

---

#### Example 1: Update userpass, or create it if does not exists

Let's start with no passwords stored in passwordstore for users at host *test\_01*. The command show no results

```
shell> pass test_01
```

Create a playbook

```
shell> cat linux-postinstall.yml
- hosts: test_01
  become: true
  roles:
    - vbotka.linux_postinstall
```

Create *host\_vars/test\_01/lp-users.yml* with two users *user1* and *user2*

```
shell> cat host_vars/test_01/lp-users.yml
lp_users:
  - {name: user1, shell: /bin/sh}
  - {name: user2, shell: /bin/bash}
```

Create users. This step will create these two users and configure their login shell. Other parameters of the Ansible module `user` will be omitted because the only required parameter is *name*. It's a good idea to create one account with the login shell */bin/sh* and use it as Ansible `remote_user`.

```
shell> ansible-playbook linux-postinstall.yml -t lp_users
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)
```

Create *host\_vars/test\_01/lp-passwords.yml*

```
shell> cat host_vars/test_01/lp-passwords.yml
lp_passwords: true
lp_passwordstore: true
lp_passwordstore_create: false
lp_passwordstore_overwrite: false
```

Create passwords. This step will use *passwordstore* to create the passwords and configure them. New passwords will be created only if allowed by the configuration of *lp\_passwordstore\_create*. We set this variable to *True* in this command but keep it *False* in the configuration to keep the passwords once created. The value of *lp\_passwordstore\_overwrite* is *False*. New passwords will be assigned to the users if no passwords have been assigned to the users before. To change the passwords in the future set both variables *True* on the commandline.

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_create=True'
...
TASK [vbotka.ansible_lib : al_pws_user_host: Retrieve, create or update ...]
ok: [test_01] => (item=user1)
ok: [test_01] => (item=user2)
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)
```

The command is idempotent

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords
...
PLAY RECAP *****
test_01: ok=18 changed=0 unreachable=0 failed=0 skipped=20 rescued=0 ...
```

Show the passwords stored in *passwordstore* at the controller

```
shell> pass test_01
test_01
├─ user1
└─ user2

shell> pass test_01/user1
1rLy0eVpJiTpzj-4
lookup_pass: First generated by ansible on 01/07/2020 16:59:00

shell> pass test_01/user2
u4FLTckKOHAYJxkg
lookup_pass: First generated by ansible on 01/07/2020 16:59:00
```

Show the *passwordstore* log at the controller

```

shell> cd ~/.password-store
shell> git log

commit 61bb8bcd7c2a359f53c8b3d4bacb8854b4dd9f89 (HEAD -> master)
Author: Vladimir Botka <vbotka@gmail.com>
Date:   Wed Jul 1 16:59:00 2020 +0200

    Add given password for test_01/user2 to store.

commit 97b23a5221e721fb892d739b2817923a6db8614b
Author: Vladimir Botka <vbotka@gmail.com>
Date:   Wed Jul 1 16:59:00 2020 +0200

    Add given password for test_01/user1 to store.

```

Show the created users at the remote host

```

test_01> grep user /etc/passwd
user1:x:1003:1003::/home/user1:/bin/sh
user2:x:1004:1004::/home/user2:/bin/bash

```

## Example 2: Update passwords submitted in the variable

Update passwords of users at host *test\_01*. Use the same playbook and variables as in Example 1. Update the variable *lp\_users* with the new passwords stored in the attribute *userpass*

```

shell> cat host_vars/test_01/lp-users.yml
lp_users:
  - {name: user1, shell: /bin/sh, userpass: user1_password}
  - {name: user2, shell: /bin/bash, userpass: user2_password}

```

Update the passwords

```

shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_overwrite=True'
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)

```

The command is idempotent

```

shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_overwrite=True'
...

PLAY RECAP *****
test_01: ok=18 changed=0 unreachable=0 failed=0 skipped=20 rescued=0 ...

```

Show the passwords stored in *passwordstore* at the controller

```

shell> pass test_01
test_01
├─ user1
└─ user2

```

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```

shell> pass test_01/user1
user1_password
lookup_pass: First generated by ansible on 01/07/2020 16:59:00

shell> pass test_01/user2
user2_password
lookup_pass: First generated by ansible on 01/07/2020 16:59:00

```

See the *passwordstore* log at the controller `git log` and test the new passwords at *test\_01*.

## Passwordstore

Create, or update passwords of selected users at remote hosts by the *passwordstore.org* *pass* utility. See details of the included task `al_pws_user_host.yml`

---

**Note:** Utility *pass* is required at controller.

---

## Example 1: Update userpass, or create it if does not exists

Let's start with no passwords stored in passwordstore for users at host *test\_01*. The command show no results

```
shell> pass test_01
```

Create a playbook

```

shell> cat linux-postinstall.yml
- hosts: test_01
  become: true
  roles:
    - vbotka.linux_postinstall

```

Create *host\_vars/test\_01/lp-users.yml* with two users *user1* and *user2*

```

shell> cat host_vars/test_01/lp-users.yml
lp_users:
  - {name: user1, shell: /bin/sh}
  - {name: user2, shell: /bin/bash}

```

Create users. This step will create these two users and configure their login shell. Other paramteres of the Annsible module *user* will be ommited because the only required parameter is *name*. It's a good idea to create one account with the login shell */bin/sh* and use it as Ansible *remote\_user*.

```

shell> ansible-playbook linux-postinstall.yml -t lp_users
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)

```

Create *host\_vars/test\_01/lp-passwords.yml*

```
shell> cat host_vars/test_01/lp-passwords.yml
lp_passwords: true
lp_passwordstore: true
lp_passwordstore_create: false
lp_passwordstore_overwrite: false
```

Create passwords. This step will use *passwordstore* to create the passwords and configure them. New passwords will be created only if allowed by the configuration of *lp\_passwordstore\_create*. We set this variable to *True* in this command but keep it *False* in the configuration to keep the passwords once created. The value of *lp\_passwordstore\_overwrite* is *False*. New passwords will be assigned to the users if no passwords have been assigned to the users before. To change the passwords in the future set both variables *True* on the commandline.

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_create=True'
...
TASK [vbotka.ansible_lib : al_pws_user_host: Retrieve, create or update ...]
ok: [test_01] => (item=user1)
ok: [test_01] => (item=user2)
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)
```

The command is idempotent

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords
...
PLAY RECAP *****
test_01: ok=18 changed=0 unreachable=0 failed=0 skipped=20 rescued=0 ...
```

Show the passwords stored in *passwordstore* at the controller

```
shell> pass test_01
test_01
├─ user1
└─ user2

shell> pass test_01/user1
1rLy0eVpJiTzj-4
lookup_pass: First generated by ansible on 01/07/2020 16:59:00

shell> pass test_01/user2
u4FLTckKOHAYJxkg
lookup_pass: First generated by ansible on 01/07/2020 16:59:00
```

Show the *passwordstore* log at the controller

```
shell> cd ~/.password-store
shell> git log

commit 61bb8bcd7c2a359f53c8b3d4bacb8854b4dd9f89 (HEAD -> master)
Author: Vladimir Botka <vbotka@gmail.com>
Date: Wed Jul 1 16:59:00 2020 +0200

    Add given password for test_01/user2 to store.
```

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```
commit 97b23a5221e721fb892d739b2817923a6db8614b
Author: Vladimir Botka <vbotka@gmail.com>
Date:   Wed Jul 1 16:59:00 2020 +0200

    Add given password for test_01/user1 to store.
```

Show the created users at the remote host

```
test_01> grep user /etc/passwd
user1:x:1003:1003::/home/user1:/bin/sh
user2:x:1004:1004::/home/user2:/bin/bash
```

## Example 2: Update passwords submitted in the variable

Update passwords of users at host *test\_01*. Use the same playbook and variables as in Example 1. Update the variable *lp\_users* with the new passwords stored in the attribute *userpass*

```
shell> cat host_vars/test_01/lp-users.yml
lp_users:
- {name: user1, shell: /bin/sh, userpass: user1_password}
- {name: user2, shell: /bin/bash, userpass: user2_password}
```

Update the passwords

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_overwrite=True'
...
TASK [vbotka.linux_postinstall : users: Manage user accounts] *****
changed: [test_01] => (item=user1)
changed: [test_01] => (item=user2)
```

The command is idempotent

```
shell> ansible-playbook linux-postinstall.yml -t lp_passwords \
-e 'lp_passwordstore_overwrite=True'
...
PLAY RECAP *****
test_01: ok=18 changed=0 unreachable=0 failed=0 skipped=20 rescued=0 ...
```

Show the passwords stored in *passwordstore* at the controller

```
shell> pass test_01
test_01
├─ user1
└─ user2

shell> pass test_01/user1
user1_password
lookup_pass: First generated by ansible on 01/07/2020 16:59:00

shell> pass test_01/user2
user2_password
lookup_pass: First generated by ansible on 01/07/2020 16:59:00
```

See the *passwordstore* log at the controller `git log` and test the new passwords at *test\_01*.

## 2.7 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?](#)

## 2.8 Default variables

<TBD>

[defaults/main.yml]

```
1 ---
2 # linux_postinstall defaults
3 #
4 # Put distro and flavor specific vars and overrides to the vars
5 # directory.
6
7 lp_hostname: ""
8 lp_fqdn: ""
9
10 lp_debug: false
11 lp_backup_conf: false
12
13 lp_install_retries: 5
14 lp_install_delay: 2
15
16 lp_repos_debug: false
17 lp_repos: []
18 lp_repos_keys: []
19
20 lp_packages_auto: false
21 lp_packages_debug: false
22 lp_packages_install: []
23 lp_packages_remove: []
24 lp_packages_selections_preinstall: []
25 lp_packages_selections_postinstall: []
26 lp_packages_autoremove: false
27
28 lp_package_state: present           # apt and yum support "latest"
29 lp_package_state_remove: absent     # see "remove" vs. "purge"
30 lp_package_install_dryrun: false
31
32 lp_modules_debug: false
33 lp_modules: []
34 lp_modules_blacklist: []
35 lp_modules_blacklist_path: /etc/modprobe.d
36 lp_modules_options: []
37 lp_modules_options_path: /etc/modprobe.d
38
39 lp_sysctl_debug: false
40 lp_sysctl_vars: []
41
42 lp_udev: true
```

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```

43 lp_udev_debug: false
44 lp_udev_enable: true
45 lp_udev_rules_dir: /etc/udev/rules.d
46 lp_udev_rules_template: udev-rules.j2
47 lp_udev_rules: {}
48 lp_udev_persistent_net_template: persistent-net.rules.j2
49 lp_udev_persistent_net_rules_file: 70-persistent-net.rules
50 lp_udev_persistent_net_rules: []
51 lp_udev_hci_name_rules_file: 71-hci-name.rules
52 lp_udev_hci_name_rules: []
53 lp_udev_hci_run_rules_file: 72-hci-run.rules
54 lp_udev_hci_run_rules: []
55
56 lp_wpagui: false
57 lp_wpagui_debug: false
58 lp_wpagui_nm_override: manual
59
60 lp_iptables: false
61 lp_iptables_type: default
62 lp_iptables_wan_if: eth0
63 lp_iptables_lan_if: eth1
64 lp_iptables_lan: 10.1.0.0/24
65 lp_iptables_INPUT_if: []
66 lp_iptables_INPUT_net: []
67
68 lp_users_debug: false
69 lp_users: []
70 lp_users_groups: []
71
72 lp_passwords: false
73 lp_passwords_debug: false
74 lp_passwords_debug_classified: false
75 lp_passwords_fail_gracefully: false
76 lp_password_update_password: always
77 lp_passwordstore: false
78 lp_passwordstore_debug: false
79 lp_passwordstore_install: true
80 lp_passwordstore_backup: false
81 lp_passwordstore_create: false
82 lp_passwordstore_length: 16
83 lp_passwordstore_nosymbols: false
84 lp_passwordstore_overwrite: false
85 lp_passwordstore_passwordstore: ~/.password-store
86 lp_passwordstore_returnall: false
87 lp_passwordstore_subkey: password
88 lp_passwordstore_idempotent_password_hash: true
89
90 lp_aliases: false
91 lp_aliases_config: []
92
93 lp_authorized_key: []
94
95 lp_hosts_debug: false
96 lp_hosts: []
97
98 lp_grub: true
99 lp_grub_debug: false

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```

100 lp_grub_default: []
101
102 lp_kvm: false
103 lp_kvm_debug: false
104
105 lp_xen: false
106 lp_xen_debug: false
107 lp_xen_dom0_mem: 512M
108 lp_xen_dom0_mem_max: 512M
109 lp_xen_XEN_OVERRIDE_GRUB_DEFAULT: 0
110 lp_xen_default_grub_conf:
111   - key: GRUB_CMDLINE_XEN_DEFAULT
112     value: "\"dom0_mem={{ lp_xen_dom0_mem }}, max:{{ lp_xen_dom0_mem_max }}\" \"
113   - key: XEN_OVERRIDE_GRUB_DEFAULT
114     value: "{{ lp_xen_XEN_OVERRIDE_GRUB_DEFAULT }}"
115 lp_xen_global: []
116
117 lp_latex: false
118 lp_latex_download_timeout: 20
119 lp_latex_macros: []
120 lp_latex_get_url_ignore_errors: false
121
122 lp_auto_upgrades: false
123 lp_auto_upgrades_enable: false
124
125 lp_auto_upgrades_Update_Package_Lists: 0
126 lp_auto_upgrades_Unattended_Upgrade: 0
127
128 lp_pm: false
129 lp_pm_sleepd: {}
130
131 lp_ssh: false
132 lp_ssh_debug: false
133 lp_ssh_config: []
134
135 lp_sshd: false
136 lp_sshd_debug: false
137 lp_sshd_enable: false
138 lp_sshd_config: []
139
140 lp_bluetooth: false
141 lp_bluetooth_debug: false
142 lp_bluetooth_enable: false
143 lp_bluetooth_main_conf: []
144
145 lp_xorg_debug: false
146 lp_xorg_conf_dir: /usr/share/X11/xorg.conf.d
147 lp_xorg_conf: []
148
149 lp_cron_tab: []
150 lp_cron_var: []
151
152 lp_modemmanager: true
153 lp_modemmanager_enable: true
154 lp_modemmanager_override: ""
155
156 lp_gpsd: false

```

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```

157 lp_gpsd_enable: false
158 lp_gpsd_START_DAEMON: "true"
159 lp_gpsd_USBAUTO: "true"
160 lp_gpsd_DEVICES: /dev/rfcomm0
161 lp_gpsd_GPSD_OPTIONS: -b
162 lp_gpsd_bt_rfcomm: []
163
164 lp_postfix: true
165 lp_postfix_debug: false
166 lp_postfix_enable: true
167 lp_postfix_main_conf: []
168
169 lp_smart: false
170 lp_smart_debug: false
171 lp_smart_enable: false
172 lp_smart_packages:
173     - smartmontools
174 lp_smart_service: smartmontools
175 lp_smart_devicescan: false
176 lp_smart_conf_file: /etc/smartd.conf
177 lp_smart_conf_owner: root
178 lp_smart_conf_group: root
179 lp_smart_conf_mode: "0644"
180 lp_smart_devices: []
181
182 lp_virtualbox: false
183 lp_virtualbox_debug: false
184 lp_virtualbox_enable: false
185 lp_virtualbox_ignore_errors: false
186 lp_virtualbox_version: 5.2
187 lp_virtualbox_keys:
188     - https://www.virtualbox.org/download/oracle_vbox_2016.asc
189     - https://www.virtualbox.org/download/oracle_vbox.asc
190 lp_virtualbox_packages:
191     - "virtualbox-{{ lp_virtualbox_version }}"
192
193 lp_zeitgeist: true
194
195 lp_lid: false
196 lp_lid_logind_conf: /etc/systemd/logind.conf
197 lp_lid_logind_conf_vars: []
198 lp_lid_upower_conf: /etc/UPower/UPower.conf
199 lp_lid_upower_conf_vars: []
200
201 lp_acpi: false
202 lp_acpi_dir: /etc/acpi
203 lp_acpi_owner: root
204 lp_acpi_group: root
205 lp_acpi_event_mode: "0644"
206 lp_acpi_action_mode: "0755"
207 lp_acpi_events: {}
208 lp_acpi_actions: {}
209
210 lp_speechd: true
211 lp_speechd_debug: false
212 lp_speechd_enable: true
213

```

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```

214 lp_sudoers_debug: false
215 lp_sudoers_owner: root
216 lp_sudoers_group: root
217 lp_sudoers_mode: "0440"
218 lp_sudoers_conf:
219     - {line: "#includedir /etc/sudoers.d", state: "present"}
220 lp_sudoers_01: []
221
222 lp_nfsd: false
223 lp_nfsd_enable: false
224 lp_nfsd_exports: []
225
226 lp_netplan: false
227 lp_netplan_root: /etc/netplan
228 lp_netplan_owner: root
229 lp_netplan_group: root
230 lp_netplan_version: 2
231 lp_netplan_renderer: NetworkManager
232 lp_netplan_conf: []
233
234 lp_apparmor: true
235 lp_apparmor_disable: []
236 lp_apparmor_complain: []
237 lp_apparmor_enforce: []
238
239 lp_swap: false
240 lp_swap_debug: false
241 lp_swap_enable: false
242
243 lp_timezone: false
244 lp_timezone_debug: false
245 lp_timezone_zoneinfo: UTC
246
247 lp_timesyncd: true
248 lp_timesyncd_debug: false
249 lp_timesyncd_enable: true
250 lp_timesyncd_NTP: ""
251 lp_timesyncd_FallbackNTP: ntp.ubuntu.com
252 lp_timesyncd_RootDistanceMaxSec: 5
253 lp_timesyncd_PollIntervalMinSec: 32
254 lp_timesyncd_PollIntervalMaxSec: 2048
255
256 lp_gpg: false
257 lp_gpg_debug: false
258 lp_gpg_install: true
259 lp_gpg_packages_extra: []
260 lp_gpg_conf_default: []
261 lp_gpg_conf: []
262 lp_gpg_agent_conf_default: []
263 lp_gpg_agent_conf: []
264 lp_gpg_dirmngr_conf_default: []
265 lp_gpg_dirmngr_conf: []
266
267 lp_wpasupplicant: true
268 lp_wpasupplicant_debug: false
269 lp_wpasupplicant_debug_classified: false
270 lp_wpasupplicant_conf_only: false

```

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```

271 lp_wpasupplicant_conf_owner: root
272 lp_wpasupplicant_conf_group: root
273 lp_wpasupplicant_conf_mode: "0600"
274 lp_wpasupplicant_conf_dir: /etc/wpa_supplicant
275 lp_wpasupplicant_conf_file: wpa_supplicant.conf
276 lp_wpasupplicant_conf_global:
277   - {key: ctrl_interface, value: "{{ lp_wpasupplicant_conf_ctrl_interface }}"}}
278 lp_wpasupplicant_conf: []
279 lp_wpa_action_script: false
280 lp_wpa_action_script_dir: /root/bin
281 lp_wpa_action_script_file: "{{ lp_wpa_action_script_dir }}/wpa_action.sh"
282 lp_wpa_action_script_owner: root
283 lp_wpa_action_script_group: root
284 lp_wpa_action_script_mode: "0770"
285 lp_wpa_action_script_dhclient: "{{ lp_dhclient }}"
286 lp_wpa_action_script_pidfile: /var/run/dhclient.$ifname.pid
287 lp_wpa_action_script_options_connect: "-4 -nw -pf $pidfile -v"
288 lp_wpa_action_script_options_disconnect: "-4 -r -pf $pidfile -v"
289 lp_wpa_action_script_logfile: "/tmp/wpa_action.$ifname"
290
291 lp_logrotate_conf_file: /etc/logrotate.conf
292 lp_logrotate_conf_dir: /etc/logrotate.d
293 lp_logrotate_conf_lines:
294   - {line: "include /etc/logrotate.d", state: "present"}
295 lp_logrotate_conf_blocks: []
296 lp_logrotate_conf: []
297
298 lp_tlp: false
299 lp_tlp_debug: false
300 lp_tlp_enable: false
301 lp_tlp_thinkpad: false
302 lp_tlp_config: []
303
304 lp_autofs: false
305 lp_autofs_enable: false
306 lp_autofs_conf_file: /etc/autofs.conf
307 lp_autofs_conf: []
308 lp_autofs_master_conf_file: /etc/auto.master
309 lp_autofs_master_conf: []
310 lp_autofs_misc_conf_file: /etc/auto.misc
311 lp_autofs_misc_conf: []
312
313 lp_libvirt: false
314 lp_libvirt_debug: false
315 lp_libvirt_guests_enable: false
316 lp_libvirt_libvirtd_enable: false
317 lp_libvirt_conf: []
318
319 lp_zfs: false
320 lp_zfs_install: true
321 lp_zfs_debug: false
322 lp_zfs_manage: []
323 lp_zfs_mountpoints: []
324
325 lp_service_debug: false
326 lp_service: []
327 lp_service_enable:

```

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```

328 - udev
329 - auto_upgrades
330 - sshd
331 - bluetooth
332 - gpsd
333 - postfix
334 - smart
335 - speechd
336 - timesyncd
337 - autofs
338 - libvirt_libvirt
339 - libvirt_guests
340
341 lp_ufw: true
342 lp_ufw_enable: true
343 lp_ufw_debug: false
344 lp_ufw_reset: false
345 lp_ufw_reload: false
346 lp_ufw_service: ufw
347 lp_ufw_conf:
348   - {state: enabled, policy: allow}
349   - {logging: "on"}
350
351 lp_debsums: false
352 lp_debsums_debug: false
353 lp_debsums_default_file: /etc/default/debsums
354 lp_debsums_default_conf:
355   - {key: CRON_CHECK, value: never}
356 lp_debsums_ignore_file: /etc/debsums-ignore
357 lp_debsums_ignore_conf: []
358
359 lp_fstab_entries: []
360
361 lp_resolvconf: false
362 lp_resolvconf_enable: false
363 lp_resolvconf_debug: false
364 lp_resolvconf_confd_head: []
365
366 lp_reboot: false
367 lp_reboot_debug: false
368 lp_reboot_force: false
369 lp_reboot_required_ignore: true
370 lp_reboot_required_file: /var/run/reboot-required
371 lp_reboot_required_command: /sbin/needs-restarting -r
372 lp_reboot_command: "sleep 5 && shutdown -r now"
373 lp_reboot_wait_connect_timeout: 20
374 lp_reboot_wait_sleep: 5
375 lp_reboot_wait_delay: 5
376 lp_reboot_wait_timeout: 300
377
378 # Include default vars for various flavors. For example put vars into
379 # one of the files below. First found will be included.
380 #
381 # vars/flavors/armbian-<VERSION>-<BOARD>.yaml
382 # vars/flavors/armbian-<VERSION>.yaml
383 # vars/flavors/armbian.yaml
384 # vars/defaults.yaml

```

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```

385 #
386 # 1) File with service tasks task/sub/vars-flavors-<flavor>.yaml is
387 #    needed when new flavor is added to lp_flavors. See
388 #    tasks/sub/vars-flavors-common.yaml
389 # 2) For precedence of vars see tasks/vars.yaml
390
391 lp_flavors_enable: true
392 lp_flavors_dir: "{{ inventory_dir ~ '/flavors' }}"
393 lp_flavors_dir_owner: admin
394 lp_flavors_dir_group: adm
395 lp_flavors_dir_mode: "0775"
396 lp_flavors:
397   lsb:
398     release_file: /etc/lsb-release
399     file_labels: [DISTRIB_ID, DISTRIB_CODENAME]
400   os:
401     release_file: /etc/os-release
402     file_labels: [ID, UBUNTU_CODENAME]
403   armbian:
404     release_file: /etc/armbian-release
405     file_labels: [VERSION, BOARD]
406
407 # userland paths
408 lp_dhclient: /sbin/dhclient
409
410 # TODO:
411 # * lp_virtualbox_services lp_virtualbox_enable
412 # * lp_tlp_services lp_tlp_enable
413 # * lp_nfsd_services lp_nfsd_enable
414
415 # EOF
416 ...

```

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

## 2.9 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.yaml -t lp_debug
```

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

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





## ANNOTATED SOURCE CODE

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```

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* modules.yml
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* zeitgeist.yml
* zfs.yml

```

## 3.1 Tasks

### 3.1.1 main.yml

Synopsis: Tasks of the playbook.

Description of the task.

[main.yml]

```

1  ---
2  # tasks linux-postinstall
3
4  - import_tasks: vars.yml
5    tags: [lp_vars, always]
6
7  - import_tasks: debug.yml
8    when: lp_debug|bool
9    tags: [lp_debug, always]
10
11 - import_tasks: swap.yml
12   when: ((ansible_os_family == "RedHat") or
13         (ansible_os_family == "Debian")) and lp_swap|bool
14   tags: lp_swap
15
16 - import_tasks: modules.yml
17   when: (ansible_os_family == "RedHat") or
18         (ansible_os_family == "Debian")
19   tags: lp_modules
20
21 - import_tasks: udev.yml
22   when: ((ansible_os_family == "RedHat") or
23         (ansible_os_family == "Debian")) and lp_udev|bool
24   tags: lp_udev
25
26 - import_tasks: fstab.yml
27   when: ((ansible_os_family == "RedHat") or
28         (ansible_os_family == "Debian"))
29   tags: lp_fstab
30
31 - import_tasks: netplan.yml
32   when: (ansible_os_family == "Debian") and lp_netplan|bool
33   tags: lp_netplan
34
35 - import_tasks: timezone.yml
36   when: ((ansible_os_family == "RedHat") or
37         (ansible_os_family == "Debian")) and lp_timezone|bool
38   tags: lp_timezone
39
40 - import_tasks: timesyncd.yml
41   when: (ansible_os_family == "Debian") and lp_timesyncd|bool
42   tags: lp_timesyncd
43
44 - import_tasks: repos.yml
45   when: ansible_os_family == "Debian"
46   tags: lp_repos
47

```

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```
48 - import_tasks: packages.yml
49   when: (ansible_os_family == "RedHat") or
50         (ansible_os_family == "Debian")
51   tags: lp_packages
52
53 - import_tasks: auto_upgrades.yml
54   when: (ansible_os_family == "Debian") and lp_auto_upgrades|bool
55   tags: lp_auto_upgrades
56
57 - import_tasks: sysctl.yml
58   when: (ansible_os_family == "RedHat") or
59         (ansible_os_family == "Debian")
60   tags: lp_sysctl
61
62 - import_tasks: zfs.yml
63   when: (ansible_os_family == "Debian") and lp_zfs|bool
64   tags: lp_zfs
65
66 - import_tasks: hostname.yml
67   when: (ansible_os_family == "RedHat") or
68         (ansible_os_family == "Debian")
69   tags: lp_hostname
70
71 - import_tasks: hosts.yml
72   when: (ansible_os_family == "RedHat") or
73         (ansible_os_family == "Debian")
74   tags: lp_hosts
75
76 - import_tasks: iptables.yml
77   when: (ansible_os_family == "Debian") and lp_iptables|bool
78   tags: lp_iptables
79
80 - import_tasks: grub.yml
81   when: (ansible_os_family == "Debian") and lp_grub|bool
82   tags: lp_grub
83   # https://unix.stackexchange.com/questions/152222/
84   # equivalent-of-update-grub-for-rhel-fedora-centos-systems
85
86 - import_tasks: users.yml
87   when: (ansible_os_family == "RedHat" ) or
88         (ansible_os_family == "Debian" )
89   tags: lp_users
90
91 - import_tasks: gpg.yml
92   when: (ansible_os_family == "Debian") and lp_gpg|bool
93   tags: lp_gpg
94
95 - import_tasks: passwords.yml
96   when: (ansible_os_family == "RedHat" ) or
97         (ansible_os_family == "Debian" ) and lp_passwords|bool
98   tags: lp_passwords
99
100 - import_tasks: sudoers.yml
101   when: (ansible_os_family == "RedHat" ) or
102         (ansible_os_family == "Debian" )
103   tags: lp_sudoers
104
```

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```

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

```

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```
162 - meta: flush_handlers
163
164
165 - import_tasks: zeitgeist.yml
166   when: ansible_os_family == "Debian"
167   tags: lp_zeitgeist
168
169 - import_tasks: lid.yml
170   when: (ansible_os_family == "Debian") and lp_lid|bool
171   tags: lp_lid
172
173 - import_tasks: acpi.yml
174   when: (ansible_os_family == "Debian") and lp_acpi|bool
175   tags: lp_acpi
176
177 - import_tasks: speechd.yml
178   when: (ansible_os_family == "Debian") and lp_speechd|bool
179   tags: lp_speechd
180
181 - import_tasks: nfsd.yml
182   when: (ansible_os_family == "Debian") and lp_nfsd|bool
183   tags: lp_nfsd
184
185 - meta: flush_handlers
186
187 - import_tasks: latex.yml
188   when: (ansible_os_family == "Debian") and lp_latex|bool
189   tags: lp_latex
190
191 - import_tasks: kvm.yml
192   when: (ansible_os_family == "Debian") and lp_kvm|bool
193   tags: lp_kvm
194
195 - import_tasks: xen.yml
196   when: (ansible_os_family == "Debian") and lp_xen|bool
197   tags: lp_xen
198
199 - import_tasks: virtualbox.yml
200   when: (ansible_os_family == "Debian") and lp_virtualbox|bool
201   tags: lp_virtualbox
202
203 - import_tasks: wpagui.yml
204   when: (ansible_os_family == "Debian") and lp_wpagui|bool
205   tags: lp_wpagui
206
207 - import_tasks: wpasupplicant.yml
208   when: ((ansible_os_family == "RedHat" ) or
209         (ansible_os_family == "Debian" )) and lp_wpasupplicant|bool
210   tags: lp_wpasupplicant
211
212 - import_tasks: logrotate.yml
213   when: (ansible_os_family == "RedHat" ) or
214         (ansible_os_family == "Debian" )
215   tags: lp_logrotate
216
217 - import_tasks: tlp.yml
218   when: (ansible_os_family == "Debian") and lp_tlp|bool
```

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```

219 tags: lp_tlp
220
221 - import_tasks: autofs.yml
222   when: (ansible_os_family == "Debian") and lp_autofs|bool
223   tags: lp_autofs
224
225 - import_tasks: libvirt.yml
226   when: (ansible_os_family == "Debian") and lp_libvirt|bool
227   tags: lp_libvirt
228
229 - import_tasks: ufw.yml
230   when: (ansible_os_family == "Debian") and lp_ufw|bool
231   tags: lp_ufw
232
233 - import_tasks: debsums.yml
234   when: (ansible_os_family == "Debian") and lp_debsums|bool
235   tags: lp_debsums
236
237 - meta: flush_handlers
238
239 - import_tasks: service.yml
240   tags: lp_service
241
242 - import_tasks: resolvconf.yml
243   when: (ansible_os_family == "Debian") and lp_resolvconf|bool
244   tags: lp_resolvconf
245
246 - import_tasks: reboot.yml
247   when: ((ansible_os_family == "RedHat" ) or
248         (ansible_os_family == "Debian")) and lp_reboot|bool
249   tags: lp_reboot
250
251 # EOF
252 ...

```

### 3.1.2 acpi.yml

Synopsis: Configure acpi.

Description of the task.

[acpi.yml]

```

1 ---
2 # linux-postinstall acpi
3
4 - name: "acpi: Configure {{ lp_acpi_dir }}/events"
5   template:
6     src: "{{ item.value.template }}"
7     dest: "{{ lp_acpi_dir }}/events/{{ item.value.file }}"
8     owner: "{{ lp_acpi_owner }}"
9     group: "{{ lp_acpi_group }}"
10    mode: "{{ lp_acpi_event_mode }}"
11    backup: "{{ lp_backup_conf }}"
12    loop: "{{ lp_acpi_events|dict2items }}"
13    tags: lp_acpi_events

```

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```

14
15 - name: "acpi: Create actions in {{ lp_acpi_dir }}"
16   template:
17     src: "{{ item.value.template }}"
18     dest: "{{ lp_acpi_dir }}/{{ item.value.file }}"
19     owner: "{{ lp_acpi_owner }}"
20     group: "{{ lp_acpi_group }}"
21     mode: "{{ lp_acpi_action_mode }}"
22     backup: "{{ lp_backup_conf }}"
23     loop: "{{ lp_acpi_actions|dict2items }}"
24     tags: lp_acpi_actions
25
26 # EOF
27 ...

```

### 3.1.3 aliases.yml

Synopsis: Configure aliases.

Description of the task.

[aliases.yml]

```

1 ---
2
3 - name: "aliases: Configure /etc/aliases"
4   template:
5     src: aliases.j2
6     dest: /etc/aliases
7     owner: root
8     group: root
9     mode: "0644"
10    backup: "{{ lp_backup_conf }}"
11    notify: newaliases
12
13 # EOF
14 ...

```

### 3.1.4 apparmor.yml

Synopsis: Configure apparmor.

Description of the task.

[apparmor.yml]

```

1 ---
2 # linux-postinstall apparmor
3
4 - name: "apparmor: Install packages"
5   include_tasks: fn/install-package.yml
6   loop: "{{ lp_apparmor_packages }}"
7   tags: lp_apparmor_packages
8
9 - name: "apparmor: Create list of profiles"

```

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```

10 block:
11   - name: "apparmor: List profiles"
12     shell: "aa-status --json | jq .profiles | jq to_entries"
13     register: result
14     changed_when: false
15   - name: "apparmor: Create list of enforced profiles"
16     set_fact:
17       lp_apparmor_profiles_enforce: "{{ lp_apparmor_profiles_enforce|default([]) +
↪ [ item.key ] }}"
18     loop: "{{ result.stdout|default([]) }}"
19     when: item.value == 'enforce'
20   - name: "apparmor: Create list of complained profiles"
21     set_fact:
22       lp_apparmor_profiles_complain: "{{ lp_apparmor_profiles_complain|default([])
↪ + [ item.key ] }}"
23     loop: "{{ result.stdout|default([]) }}"
24     when: item.value == 'complain'
25   - name: "apparmor: Debug: List enforced profiles"
26     debug:
27       var: lp_apparmor_profiles_enforce
28     when: lp_debug
29   - name: "apparmor: Debug: List complained profiles"
30     debug:
31       var: lp_apparmor_profiles_complain
32     when: lp_debug
33   tags: lp_apparmor_profiles
34
35 - name: "apparmor: Disable profiles"
36   command: aa-disable "{{ item }}"
37   loop: "{{ lp_apparmor_disable }}"
38   when: item in lp_apparmor_profiles_enforce|default([]) or
39         item in lp_apparmor_profiles_complain|default([])
40   tags: lp_apparmor_disable
41
42 - name: "apparmor: Enforce profiles"
43   command: aa-enforce "{{ item }}"
44   loop: "{{ lp_apparmor_enforce }}"
45   when: item not in lp_apparmor_profiles_enforce|default([])
46   tags: lp_apparmor_enforce
47
48 - name: "apparmor: Complain profiles"
49   command: aa-complain "{{ item }}"
50   loop: "{{ lp_apparmor_complain }}"
51   when: item not in lp_apparmor_profiles_complain|default([])
52   tags: lp_apparmor_enforce
53
54 - name: "apparmor: Start and enable apparmor"
55   service:
56     name: apparmor
57     state: started
58     enabled: true
59   when: lp_apparmor|bool
60   tags: lp_apparmor_service
61
62 - name: "apparmor: Stop and disable apparmor"
63   service:
64     name: apparmor

```

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```

65     state: stopped
66     enabled: false
67     when: not lp_apparmor|bool
68     tags: lp_apparmor_service
69
70 # EOF
71 ...

```

### 3.1.5 authorized\_keys.yml

Synopsis: Configure authorized\_keys.

Description of the task.

[authorized\_keys.yml]

```

1 ---
2
3 - name: "authorized_key: Configure authorized_keys"
4   authorized_key:
5     user: "{{ item.user }}"
6     key: "{{ item.key }}"
7     manage_dir: true
8     loop: "{{ lp_authorized_keys }}"
9
10 # EOF
11 ...

```

### 3.1.6 autofs.yml

Synopsis: Configure autofs.

Description of the task.

[autofs.yml]

```

1 ---
2 # linux-postinstall autofs
3
4 - name: "autofs: Debug"
5   debug:
6     msg: "lp_autofs_enable [ {{ lp_autofs_enable }} ]"
7   when: lp_debug|bool
8
9 - name: "autofs: Configure {{ lp_autofs_conf_file }}"
10  lineinfile:
11    dest: "{{ lp_autofs_conf_file }}"
12    regexp: "^{{ item.key }}\\s*=\\s*(.*)$"
13    line: "{{ item.key }} = {{ item.value }}"
14    backup: "{{ lp_backup_conf }}"
15    loop: "{{ lp_autofs_conf }}"
16    notify: reload autofs
17
18 - name: "autofs: Configure {{ lp_autofs_master_conf_file }}"
19  lineinfile:

```

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```

20     dest: "{{ lp_autofs_master_conf_file }}"
21     regexp: "^{{ item.key }}\\s*(.*)$"
22     line: "{{ item.key }} {{ item.value }}"
23     backup: "{{ lp_backup_conf }}"
24     loop: "{{ lp_autofs_master_conf }}"
25     notify: reload autofs
26
27 - name: "autofs: Configure {{ lp_autofs_misc_conf_file }}"
28   lineinfile:
29     dest: "{{ lp_autofs_misc_conf_file }}"
30     regexp: "^{{ item.key }}\\s*(.*)$"
31     line: "{{ item.key }} {{ item.value }}"
32     backup: "{{ lp_backup_conf }}"
33     loop: "{{ lp_autofs_misc_conf }}"
34     notify: reload autofs
35
36 - name: "autofs: Enable and start autofs"
37   systemd:
38     name: "{{ lp_autofs_service }}"
39     enabled: true
40     state: started
41     when: lp_autofs_enable|bool
42
43 - name: "autofs: Stop and disable autofs"
44   systemd:
45     name: "{{ lp_autofs_service }}"
46     enabled: false
47     state: stopped
48     when: not lp_autofs_enable|bool
49
50 # EOF
51 ...

```

### 3.1.7 auto\_upgrades.yml

Synopsis: Configure auto\_upgrades.

Description of the task.

[auto\_upgrades.yml]

```

1 ---
2
3 - name: "auto_upgrades: Configure /etc/apt/apt.conf.d/20auto-upgrades"
4   template:
5     src: auto-upgrades.j2
6     dest: /etc/apt/apt.conf.d/20auto-upgrades
7     owner: root
8     group: root
9     mode: "0644"
10    backup: "{{ lp_backup_conf }}"
11
12 - name: "auto_upgrades: Disable and stop unattended-upgrades"
13   systemd:
14     name: "{{ lp_auto_upgrades_service }}"
15     state: stopped

```

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```

16     enabled: false
17     when: not lp_auto_upgrades_enable|bool
18
19 - name: "auto_upgrades: Enable and start unattended-upgrades"
20   systemd:
21     name: "{{ lp_auto_upgrades_service }}"
22     state: started
23     enabled: true
24     when: lp_auto_upgrades_enable|bool
25
26 # EOF
27 ...

```

### 3.1.8 bluetooth.yml

Synopsis: Configure bluetooth.

Description of the task.

[bluetooth.yml]

```

1 ---
2 # linux-postinstall bluetooth
3
4 - name: "bluetooth: Debug"
5   debug:
6     msg: "lp_bluetooth_enable [{{ lp_bluetooth_enable }}"
7     when: lp_bluetooth_debug|bool
8     tags: lp_bluetooth_debug
9
10 - name: "bluetooth: Configure /etc/bluetooth/main.conf"
11   lineinfile:
12     dest: /etc/bluetooth/main.conf
13     regexp: "^{{ item.key }}\\s*=(.*)$"
14     insertbefore: "^{{ '#' }}"
15     line: "{{ item.key }} = {{ item.value }}"
16     backup: "{{ lp_backup_conf }}"
17     loop: "{{ lp_bluetooth_main_conf }}"
18     notify: restart bluetooth
19     tags: lp_bluetooth_conf
20
21 - name: "bluetooth: Enable and start bluetooth"
22   systemd:
23     name: "{{ lp_bluetooth_service }}"
24     enabled: true
25     state: started
26     when: lp_bluetooth_enable|bool
27     tags: lp_bluetooth_enable
28
29 - name: "bluetooth: Stop and disable bluetooth"
30   systemd:
31     name: "{{ lp_bluetooth_service }}"
32     enabled: false
33     state: stopped
34     when: not lp_bluetooth_enable|bool
35     tags: lp_bluetooth_disable

```

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```

36
37 # EOF
38 ...

```

### 3.1.9 cron.yml

Synopsis: Configure cron.

Description of the task.

[cron.yml]

```

1 ---
2
3 - name: "cron: Configure cron variables"
4   cronvar:
5     name: "{{ item.name }}"
6     value: "{{ item.value }}"
7     user: "{{ item.user }}"
8   loop: "{{ lp_cron_var }}"
9   tags: lp_cron_var
10
11 - name: "cron: Configure cron"
12   cron:
13     state: "{{ item.state }}"
14     user: "{{ item.user }}"
15     name: "{{ item.name }}"
16     minute: "{{ item.minute }}"
17     hour: "{{ item.hour }}"
18     day: "{{ item.day }}"
19     month: "{{ item.month }}"
20     weekday: "{{ item.weekday }}"
21     job: "{{ item.command }}"
22   loop: "{{ lp_cron_tab }}"
23   tags: lp_cron_tab
24
25 # EOF
26 ...

```

### 3.1.10 debsums.yml

Synopsis: Configure debsums.

Description of the task.

[debsums.yml]

```

1 ---
2 # linux-postinstall debsums
3
4 - name: "debsums: Debug"
5   vars:
6     msg: |
7     lp_debsums_default_file [{{ lp_debsums_default_file }}]
8     lp_debsums_default_conf

```

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```

9      {{ lp_debsums_default_conf|to_yaml }}
10      lp_debsums_ignore_file [{{ lp_debsums_ignore_file }}]
11      lp_debsums_ignore_conf
12      {{ lp_debsums_ignore_conf|to_nice_yaml }}
13  debug:
14      msg: "{{ msg.split('\n')[:-1] }}"
15  when: lp_debsums_debug|bool
16  tags: lp_debsums_debug
17
18  - name: "debsums: Install packages"
19    include_tasks: fn/install-package.yml
20    loop: "{{ lp_debsums_packages }}"
21    tags: lp_debsums_packages
22
23  - name: "debsums: Configure {{ lp_debsums_default_file }}"
24    lineinfile:
25      dest: "{{ lp_debsums_default_file }}"
26      state: "{{ item.state|default(omit) }}"
27      regexp: '^s*{{ item.key }}s*=(.*)$'
28      line: "{{ item.key }}={{ item.value }}"
29      backup: "{{ lp_backup_conf }}"
30      create: true
31    loop: "{{ lp_debsums_default_conf }}"
32    tags: lp_debsums_default_conf
33
34  - name: "debsums: Configure {{ lp_debsums_ignore_file }}"
35    lineinfile:
36      dest: "{{ lp_debsums_ignore_file }}"
37      state: "{{ item.state|default(omit) }}"
38      line: "{{ item }}"
39      backup: "{{ lp_backup_conf }}"
40      create: true
41    loop: "{{ lp_debsums_ignore_conf }}"
42    tags: lp_debsums_ignore_conf
43
44  # EOF
45  ...

```

### 3.1.11 debug.yml

Synopsis: Configure debug.

Description of the task.

[debug.yml]

```

1  ---
2  # Hint: Get readable output with stdout_callback = yaml
3
4  - name: "Debug"
5    vars:
6      msg: |
7          ansible_architecture [{{ ansible_architecture }}]
8          ansible_os_family [{{ ansible_os_family }}]
9          ansible_distribution [{{ ansible_distribution }}]
10         ansible_distribution_major_version [{{ ansible_distribution_major_version }}]

```

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```

11     ansible_distribution_version [{{ ansible_distribution_version }}]
12     ansible_distribution_release [{{ ansible_distribution_release }}]
13     ansible_python_version [{{ ansible_python_version }}]
14
15     lp_flavors_enable [{{ lp_flavors_enable }}]
16     {{ my_release|default([])|to_nice_yaml }}
17
18     lp_backup_conf [{{ lp_backup_conf }}]
19
20     lp_acpi [{{ lp_acpi }}]
21     lp_aliases [{{ lp_aliases }}]
22     lp_apparmor [{{ lp_apparmor }}]
23     lp_auto_upgrades [{{ lp_auto_upgrades }}] lp_auto_upgrades_enable [{{ lp_auto_
↪upgrades_enable }}]
24     lp_autofs [{{ lp_autofs }}] lp_autofs_enable [{{ lp_autofs_enable }}]
25     lp_bluetooth [{{ lp_bluetooth }}] lp_bluetooth_enable [{{ lp_bluetooth_enable }}
↪]
26     lp_debsums [{{ lp_debsums }}]
27     lp_gpg [{{ lp_gpg }}]
28     lp_gpsd [{{ lp_gpsd }}] lp_gpsd_enable [{{ lp_gpsd_enable }}]
29     lp_grub [{{ lp_grub }}]
30     lp_iptables [{{ lp_iptables }}]
31     lp_kvm [{{ lp_kvm }}]
32     lp_latex [{{ lp_latex }}]
33     lp_libvirt [{{ lp_libvirt }}]
34     lp_libvirt_guests_enable [{{ lp_libvirt_guests_enable }}]
35     lp_libvirt_libvirtd_enable [{{ lp_libvirt_libvirtd_enable }}]
36     lp_lid [{{ lp_lid }}]
37     lp_modemmanager [{{ lp_modemmanager }}] lp_modemmanager_enable [{{ lp_
↪modemmanager_enable }}]
38     lp_netplan [{{ lp_netplan }}]
39     lp_nfsd [{{ lp_nfsd }}] lp_nfsd_enable [{{ lp_nfsd_enable }}]
40     lp_packages_autoremove [{{ lp_packages_autoremove }}]
41     lp_passwords [{{ lp_passwords }}]
42     lp_pm [{{ lp_pm }}]
43     lp_postfix [{{ lp_postfix }}] lp_postfix_enable [{{ lp_postfix_enable }}]
44     lp_reboot [{{ lp_reboot }}]
45     lp_resolvconf [{{ lp_resolvconf }}]
46     lp_smart [{{ lp_smart }}] lp_smart_enable [{{ lp_smart_enable }}]
47     lp_speechd [{{ lp_speechd }}] lp_speechd_enable [{{ lp_speechd_enable }}]
48     lp_ssh [{{ lp_ssh }}]
49     lp_sshd [{{ lp_sshd }}] lp_sshd_enable [{{ lp_sshd_enable }}]
50     lp_swap [{{ lp_swap }}] lp_swap_enable [{{ lp_swap_enable }}]
51     lp_timesyncd [{{ lp_timesyncd }}] lp_timesyncd_enable [{{ lp_timesyncd_enable }}
↪]
52     lp_timezone [{{ lp_timezone }}]
53     lp_tlp [{{ lp_tlp }}] lp_tlp_enable [{{ lp_tlp_enable }}]
54     lp_ufw [{{ lp_ufw }}]
55     lp_virtualbox [{{ lp_virtualbox }}] lp_virtualbox_enable [{{ lp_virtualbox_
↪enable }}]
56     lp_wpagui [{{ lp_wpagui }}]
57     lp_wpasupplicant [{{ lp_wpasupplicant }}]
58     lp_xen [{{ lp_xen }}]
59     lp_zeitgeist [{{ lp_zeitgeist }}]
60     lp_zfs [{{ lp_zfs }}]
61
62     lp_service

```

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```

63     {{ lp_service | to_yaml }}
64     lp_package_state [{{ lp_package_state }}]
65     lp_package_state_remove [{{ lp_package_state_remove }}]
66
67     debug:
68         msg: "{{ msg.split('\n')[:-1] }}"
69
70     # EOF
71     ...

```

### 3.1.12 fstab.yml

Synopsis: Configure fstab.

Description of the task.

[fstab.yml]

```

1  ---
2
3  - name: "fstab: Configure fstab entries"
4    mount:
5      name: "{{ item.name }}"
6      state: "{{ item.state|default('mounted') }}"
7      src: "{{ item.src|default(omit) }}"
8      fstype: "{{ item.fstype|default(omit) }}"
9      opts: "{{ item.opts|default(omit) }}"
10     dump: "{{ item.dump|default(omit) }}"
11     passno: "{{ item.passno|default(omit) }}"
12     backup: "{{ lp_backup_conf }}"
13     loop: "{{ lp_fstab_entries }}"
14
15     # EOF
16     ...

```

### 3.1.13 gpg.yml

Synopsis: Configure gpg.

Description of the task.

[gpg.yml]

```

1  ---
2  # linux-postinstall gpg
3
4  - name: "gpg: Debug"
5    vars:
6      msg: |
7        lp_gpg_install [{{ lp_gpg_install }}]
8        lp_gpg_packages
9        {{ lp_gpg_packages|to_nice_yaml }}
10       lp_gpg_packages_extra
11       {{ lp_gpg_packages_extra|to_nice_yaml }}
12

```

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```

13     lp_gpg_conf_default
14     {{ lp_gpg_conf_default|to_yaml }}
15     lp_gpg_conf
16     {{ lp_gpg_conf|to_yaml }}
17
18     lp_gpg_agent_conf_default
19     {{ lp_gpg_agent_conf_default|to_yaml }}
20     lp_gpg_agent_conf
21     {{ lp_gpg_agent_conf|to_yaml }}
22
23     lp_gpg_dirmngr_conf_default
24     {{ lp_gpg_dirmngr_conf_default|to_yaml }}
25     lp_gpg_dirmngr_conf
26     {{ lp_gpg_dirmngr_conf|to_yaml }}
27 debug:
28     msg: "{{ msg.split('\n')[:-1] }}"
29 when: lp_gpg_debug|bool
30 tags: lp_gpg_debug
31
32 - name: "gpg: Install packages"
33   include_tasks: fn/install-package.yml
34   loop:
35     - "{{ lp_gpg_packages }}"
36     - "{{ lp_gpg_packages_extra }}"
37   when: lp_gpg_install|bool
38   tags: lp_gpg_packages
39
40 - name: "gpg: Configure gpg.conf"
41   template:
42     src: gpg.conf.j2
43     dest: "{{ item.dest|default('/home/' ~ item.owner ~ '/.gnupg/gpg.conf') }}"
44     owner: "{{ item.owner }}"
45     group: "{{ item.owner }}"
46     mode: "0600"
47     backup: "{{ lp_backup_conf }}"
48   loop: "{{ lp_gpg_conf }}"
49   loop_control:
50     label: "{{ item.owner }}"
51   tags: lp_gpg_conf
52
53 - name: "gpg: Configure gpg-agent.conf"
54   template:
55     src: gpg-agent.conf.j2
56     dest: "{{ item.dest|default('/home/' ~ item.owner ~ '/.gnupg/gpg-agent.conf') }}"
57     owner: "{{ item.owner }}"
58     group: "{{ item.owner }}"
59     mode: "0600"
60     backup: "{{ lp_backup_conf }}"
61   loop: "{{ lp_gpg_agent_conf }}"
62   loop_control:
63     label: "{{ item.owner }}"
64   register: lp_gpg_agent_conf_changes
65   notify: gpgconf kill gpg-agent
66   tags: lp_gpg_agent_conf
67
68 - name: "gpg: Configure dirmngr.conf"
69   template:

```

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```

70     src: gpg-dirmngr.conf.j2
71     dest: "{{ item.dest|default('/home/' ~ item.owner ~ '/.gnupg/dirmngr.conf') }}"
72     owner: "{{ item.owner }}"
73     group: "{{ item.owner }}"
74     mode: "0600"
75     backup: "{{ lp_backup_conf }}"
76     loop: "{{ lp_gpg_dirmngr_conf }}"
77     loop_control:
78         label: "{{ item.owner }}"
79     register: lp_gpg_dirmngr_conf_changes
80     notify: gpgconf kill dirmngr
81     tags: lp_gpg_dirmngr_conf
82
83     # TODO: import keys
84
85     # EOF
86     ...

```

### 3.1.14 gpsd.yml

Synopsis: Configure gpsd.

Description of the task.

[gpsd.yml]

```

1  ---
2  # linux-postinstall gpsd
3
4  - name: "gpsd: Install packages for gpsd"
5    include_tasks: fn/install-package.yml
6    loop: "{{ lp_gpsd_packages }}"
7    tags: lp_gpsd_packages
8
9  - name: "gpsd: Add user gpsd to group dialout"
10    user:
11      name: gpsd
12      groups: dialout
13      append: true
14      tags: lp_gpsd_group
15
16  - name: "gpsd: Configure /etc/bluetooth/rfcomm.conf"
17    blockinfile:
18      dest: /etc/bluetooth/rfcomm.conf
19      marker: "# {mark} ANSIBLE MANAGED BLOCK rfcomm{{ item.rfcomm }}"
20      insertafter: EOF
21      owner: root
22      group: root
23      mode: "0644"
24      backup: "{{ lp_backup_conf }}"
25      block: |
26          rfcomm{{ item.rfcomm }} {
27              bind {{ item.bind }}
28              device {{ item.device }}
29              channel {{ item.channel }}
30              comment "{{ item.comment }}"

```

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```

31     }
32     loop: "{{ lp_gpsd_bt_rfcomm }}"
33     notify: restart bluetooth
34     tags: lp_gpsd_bt_rfcomm
35
36 - name: "gpsd: Configure /etc/default/gpsd"
37   template:
38     src: gpsd.j2
39     dest: /etc/default/gpsd
40     owner: root
41     group: root
42     mode: "0644"
43     backup: "{{ lp_backup_conf }}"
44   notify: restart gpsd
45   tags: lp_gpsd_config
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   vars:
5     msg: |
6       lp_grub_default
7       {{ lp_grub_default|to_yaml }}
8   debug:
9     msg: "{{ msg.split('\n')[:-1] }}"
10  when: lp_grub_debug|bool
11  tags: lp_grub_debug
12
13 - name: "grub: Configure /etc/default/grub"

```

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```

14  lineinfile:
15      dest: /etc/default/grub
16      regexp: "^\\s*{{ item.var }}\\s*=(.*)$"
17      line: "{{ item.var }}={{ item.value }}"
18      backup: "{{ lp_backup_conf|bool }}"
19      loop: "{{ lp_grub_default }}"
20      notify: update grub
21      tags: lp_grub_conf
22
23  # EOF
24  ...

```

### 3.1.16 hostname.yml

Synopsis: Configure hostname.

Description of the task.

[hostname.yml]

```

1  ---
2
3  # TODO:
4  # 1) SET/DONT_SET hostname via DHCP
5  # /etc/dhcp/dhclient.conf
6  # #send host-name = gethostname();
7  # request host-name = "myhostname";
8  # https://askubuntu.com/questions/104918/how-to-get-the-hostname-from-a-dhcp-server
9  # http://blog.schlomo.schapiro.org/2013/11/setting-hostname-from-dhcp-in-debian.html
10 # https://askubuntu.com/questions/757423/how-to-force-dhcp-client-to-allow-a-self-
11   ↳ defined-domain-name
12
13 - name: "hostname: Configure hostname in /etc/hostname"
14   template:
15     src: hostname.j2
16     dest: /etc/hostname
17     owner: root
18     group: root
19     mode: "0644"
20     backup: "{{ lp_backup_conf }}"
21   when:
22     - lp_hostname|length > 0
23     - ansible_os_family == "Debian"
24   # notify: set hostname
25
26 - name: "hostname: Configure hostname"
27   hostname:
28     name: "{{ lp_hostname }}"
29   when: lp_hostname|length > 0
30
31 # EOF
32 ...

```

### 3.1.17 hosts.yml

Synopsis: Configure hosts.

Description of the task.

[hosts.yml]

```

1 ---
2
3 - name: "hosts: Debug"
4   vars:
5     msg: |
6       lp_hosts_default_override
7       {{ lp_hosts_default_override|default('UNDEFINED')|to_yaml }}
8       lp_hosts_default
9       {{ lp_hosts_default|to_yaml }}
10      lp_hosts
11      {{ lp_hosts|to_yaml }}
12   debug:
13     msg: "{{ msg.split('\n')[:-1] }}"
14   when: lp_hosts_debug|bool
15   tags: lp_hosts_debug
16
17 - name: "hosts: Configure hosts in /etc/hosts"
18   template:
19     src: hosts.j2
20     dest: /etc/hosts
21     owner: root
22     group: root
23     mode: "0644"
24     backup: "{{ lp_backup_conf }}"
25     tags: lp_hosts_conf
26
27 # EOF
28 ...

```

### 3.1.18 iptables.yml

Synopsis: Configure iptables.

Description of the task.

[iptables.yml]

```

1 ---
2 # linux-postinstall iptables
3
4 - name: "iptables: Create /etc/network/if-pre-up.d/iptables"
5   template:
6     src: iptables-restore.j2
7     dest: /etc/network/if-pre-up.d/iptables
8     owner: root
9     group: root
10    mode: "0755"
11
12 - name: "iptables: Create /etc/network/iptables
13       using {{ lp_iptables_type }}-iptables.j2"

```

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```

14  template:
15      src: "{{ lp_iptables_type }}-iptables.j2"
16      dest: /etc/network/iptables
17      owner: root
18      group: root
19      mode: "0644"
20      notify: reload iptables
21
22  # EOF
23  ...

```

### 3.1.19 kvm.yml

Synopsis: Configure kvm.

Description of the task.

[kvm.yml]

```

1  ---
2  # linux-postinstall kvm
3
4  - name: "kvm: Debug"
5    vars:
6      msg: |
7          lp_kvm_packages
8          {{ lp_kvm_packages|to_nice_yaml }}
9    debug:
10      msg: "{{ msg.split('\n')[:-1] }}"
11    when: lp_kvm_debug|bool
12    tags: lp_kvm_debug
13
14  - name: "kvm: Install packages"
15    include_tasks: fn/install-package.yml
16    loop: "{{ lp_kvm_packages }}"
17    tags: lp_kvm_packages
18
19  # EOF
20  ...

```

### 3.1.20 latex.yml

Synopsis: Configure latex.

Description of the task.

[latex.yml]

```

1  ---
2  # linux-postinstall LaTeX
3
4  - name: "latex: Install packages"
5    include_tasks: fn/install-package.yml
6    loop: "{{ lp_latex_packages }}"
7    tags: lp_latex_packages

```

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```

8
9 - name: "latex: Create directory /usr/share/texmf/tex/latex"
10   file:
11     state: directory
12     path: /usr/share/texmf/tex/latex
13     tags: lp_latex_dir
14
15 - name: "latex: Create directories for macros"
16   file:
17     state: directory
18     path: "{{ item.dest }}"
19     loop: "{{ lp_latex_macros }}"
20     tags: lp_latex_macros
21
22 - name: "latex: Download macros"
23   get_url:
24     url: "{{ item.url }}"
25     dest: "{{ item.dest }}"
26     timeout: "{{ lp_latex_download_timeout }}"
27     loop: "{{ lp_latex_macros }}"
28     ignore_errors: "{{ lp_latex_get_url_ignore_errors }}"
29     changed_when: false
30     tags: lp_latex_labels
31
32 # get_url: check mode reports changes with force enabled
33 # https://github.com/ansible/ansible/issues/25418
34
35 # TODO:
36 # 1) Compile and register labels.sty
37 # cd /usr/share/texmf/tex/latex/labels/
38 # latex labels.ins
39 # texhash /usr/share/texmf
40
41 # EOF
42 ...

```

### 3.1.21 libvirt-conf.yml

Synopsis: Configure libvirt-conf.

Description of the task.

[libvirt-conf.yml]

```

1 ---
2
3 - name: "libvirt-conf: Debug"
4   debug:
5     msg: "{{ item }}"
6     when: lp_libvirt_debug|bool
7
8 - name: "libvirt-conf: Configure {{ lp_libvirt_conf_dir }}/{{ item.key }}"
9   lineinfile:
10     dest: "{{ lp_libvirt_conf_dir }}/{{ item.key }}"
11     regexp: "^{{ conf[0] }}(\\s|=)"
12     line: "{{ conf[0] }} = {{ conf[1] }}"

```

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```

13     state: "{{ conf[2] | default('present') }}"
14     backup: "{{ lp_backup_conf }}"
15     create: true
16     loop: "{{ item.value }}"
17     loop_control:
18         loop_var: conf
19     notify:
20         - reload libvirtd
21         - reload libvirt_guests
22
23 # EOF
24 ...

```

### 3.1.22 libvirt.yml

Synopsis: Configure libvirt.

Description of the task.

[libvirt.yml]

```

1 ---
2 # linux-postinstall libvirt
3
4 - name: "libvirt Debug"
5   vars:
6     msg: |
7       lp_libvirt_guests_enable [{{ lp_libvirt_guests_enable }}]
8       lp_libvirt_libvirtd_enable [{{ lp_libvirt_libvirtd_enable }}]
9       lp_libvirt_backup [{{ lp_libvirt_backup }}]
10      lp_libvirt_conf_owner [{{ lp_libvirt_conf_owner }}]
11      lp_libvirt_conf_group [{{ lp_libvirt_conf_group }}]
12      lp_libvirt_conf_mode [{{ lp_libvirt_conf_mode }}]
13      lp_libvirt_conf_dir [{{ lp_libvirt_conf_dir }}]
14      lp_libvirt_packages
15      {{ lp_libvirt_packages|to_nice_yaml }}
16      lp_libvirt_conf
17      {{ lp_libvirt_conf|to_yaml }}
18   debug:
19     msg: "{{ msg.split('\n')[:-1] }}"
20   when: lp_libvirt_debug|bool
21   tags: lp_libvirt_debug
22
23 - name: "libvirt: Install packages"
24   include_tasks: fn/install-package.yml
25   loop: "{{ lp_libvirt_packages }}"
26   tags: lp_libvirt_pkg
27
28 - name: "libvirt: Configure"
29   include_tasks: libvirt-conf.yml
30   loop: "{{ lp_libvirt_conf | dict2items }}"
31   tags: lp_libvirt_conf
32
33 - name: "libvirt: Start and enable {{ lp_libvirt_libvirtd_service }}"
34   service:
35     name: "{{ lp_libvirt_libvirtd_service }}"

```

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```

36     state: started
37     enabled: true
38 when: lp_libvirt_libvirtd_enable|bool
39 tags: lp_libvirt_libvirtd_service
40
41 - name: "libvirt: Stop and disable {{ lp_libvirt_libvirtd_service }}"
42   service:
43     name: "{{ lp_libvirt_libvirtd_service }}"
44     state: stopped
45     enabled: false
46 when: not lp_libvirt_libvirtd_enable|bool
47 tags: lp_libvirt_libvirtd_service
48
49 - name: "libvirt: Start and enable {{ lp_libvirt_guests_service }}"
50   service:
51     name: "{{ lp_libvirt_guests_service }}"
52     state: started
53     enabled: true
54 when: lp_libvirt_guests_enable|bool
55 tags: lp_libvirt_guests_service
56
57 - name: "libvirt: Stop and disable {{ lp_libvirt_guests_service }}"
58   service:
59     name: "{{ lp_libvirt_guests_service }}"
60     state: stopped
61     enabled: false
62 when: not lp_libvirt_guests_enable|bool
63 tags: lp_libvirt_guests_service
64
65 # EOF
66 ...

```

### 3.1.23 lid.yml

Synopsis: Configure lid.

Description of the task.

[lid.yml]

```

1 ---
2 # linux-postinstall lid
3
4 - name: "lid: Configure {{ lp_lid_logind_conf }}"
5   lineinfile:
6     dest: "{{ lp_lid_logind_conf }}"
7     regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"
8     line: "{{ item.var }}={{ item.value }}"
9     backup: "{{ lp_backup_conf }}"
10    loop: "{{ lp_lid_logind_conf_vars }}"
11    notify: logind message reboot
12
13 - name: "lid: Configure {{ lp_lid_upower_conf }}"
14   lineinfile:
15     dest: "{{ lp_lid_upower_conf }}"
16     regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"

```

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```

17     line: "{{ item.var }}={{ item.value }}"
18     backup: "{{ lp_backup_conf }}"
19     loop: "{{ lp_lid_upower_conf_vars }}"
20
21 # EOF
22 ...

```

### 3.1.24 logrotate.yml

Synopsis: Configure logrotate.

Description of the task.

[logrotate.yml]

```

1 ---
2 # linux-postinstall logrotate
3
4 - name: "logrotate: Install packages for logrotate"
5   include_tasks: fn/install-package.yml
6   loop: "{{ lp_logrotate_packages }}"
7
8 - name: "logrotate: Configure blocks in {{ lp_logrotate_conf_file }}"
9   blockinfile:
10     path: "{{ lp_logrotate_conf_file }}"
11     mark: "{{ item.mark }}"
12     block: "{{ item.block }}"
13     state: "{{ item.state }}"
14     backup: "{{ lp_backup_conf }}"
15     loop: "{{ lp_logrotate_conf_blocks }}"
16
17 - name: "logrotate: Configure lines in {{ lp_logrotate_conf_file }}"
18   lineinfile:
19     path: "{{ lp_logrotate_conf_file }}"
20     line: "{{ item.line }}"
21     state: "{{ item.state }}"
22     backup: "{{ lp_backup_conf }}"
23     loop: "{{ lp_logrotate_conf_lines }}"
24
25 - name: "logrotate: Configure {{ lp_logrotate_conf_dir }}"
26   blockinfile:
27     path: "{{ lp_logrotate_conf_dir }}/{{ item.path }}"
28     block: "{{ item.conf }}"
29     create: true
30     backup: "{{ lp_backup_conf }}"
31     loop: "{{ lp_logrotate_confd }}"
32
33 # EOF
34 ...

```

### 3.1.25 modemmanager.yml

Synopsis: Configure modemmanager.

Description of the task.

[modemmanager.yml]

```

1 ---
2 # linux-postinstall ModemManager
3
4 - name: "modem_manager: Configure /etc/init/modemmanager.override"
5   template:
6     src: modem-manager-override.j2
7     dest: /etc/init/modemmanager.override
8     owner: root
9     group: root
10    mode: "0644"
11
12 - name: "modem_manager: Stop and disable ModemManager"
13   service:
14     name: ModemManager
15     state: stopped
16     enabled: false
17   when: not lp_modemmanager_enable|bool
18
19 - name: "modem_manager: Start and enable ModemManager"
20   service:
21     name: ModemManager
22     state: started
23     enabled: true
24   when: lp_modemmanager_enable|bool
25
26 # EOF
27 ...

```

### 3.1.26 modules.yml

Synopsis: Configure modules.

Description of the task.

[modules.yml]

```

1 ---
2 # linux-postinstall modules
3
4 - name: "modules: Debug"
5   vars:
6     msg: |
7       lp_modules_conf [{{ lp_modules_conf }}]
8       lp_modules
9       {{ lp_modules|to_yaml }}
10      lp_modules_options_path [ {{ lp_modules_options_path }}]
11      lp_modules_options
12      {{ lp_modules_options|to_nice_yaml }}
13      lp_modules_blacklist_path [{{ lp_modules_blacklist_path }}]
14      lp_modules_blacklist
15      {{ lp_modules_blacklist|to_nice_yaml }}
16   debug:
17     msg: "{{ msg.split('\n')[:-1] }}"
18   when: lp_modules_debug|bool
19

```

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```

20 - name: "modules: modprobe modules"
21   modprobe:
22     name: "{{ item.name }}"
23     params: "{{ item.params }}"
24     state: "{{ item.state|default('present') }}"
25     loop: "{{ lp_modules }}"
26
27 # Debian
28 - name: "modules: Configure {{ lp_modules_conf }} in Debian"
29   lineinfile:
30     dest: "{{ lp_modules_conf }}"
31     regexp: "^\\s*{{ item.name }}\\s*(.*)$"
32     line: "{{ item.name }} {{ item.params }}"
33     backup: "{{ lp_backup_conf }}"
34     loop: "{{ lp_modules }}"
35     when:
36       - ansible_os_family == "Debian"
37       - item.state|default("present") == "present"
38
39 # RedHat
40 - name: "modules: Configure {{ lp_modules_conf }} in RedHat"
41   lineinfile:
42     dest: "{{ lp_modules_conf }}"
43     regexp: "^\\s*modprobe\\s+{{ item.name }}\\s*(.*)$"
44     line: "modprobe {{ item.name }} {{ item.params }}"
45     backup: "{{ lp_backup_conf }}"
46     loop: "{{ lp_modules }}"
47     when:
48       - ansible_os_family == "RedHat"
49       - item.state|default("present") == "present"
50
51 - name: "modules: Blacklist modules in {{ lp_modules_blacklist_path }}"
52   template:
53     src: blacklist-module.j2
54     dest: "{{ lp_modules_blacklist_path }}/blacklist-{{ item }}.conf"
55     backup: "{{ lp_backup_conf }}"
56     loop: "{{ lp_modules_blacklist }}"
57     notify: update initramfs
58
59 - name: "modules: Set modules options in {{ lp_modules_options_path }}"
60   template:
61     src: options-module.j2
62     dest: "{{ lp_modules_options_path }}/{{ item.module }}.conf"
63     backup: "{{ lp_backup_conf }}"
64     loop: "{{ lp_modules_options }}"
65     notify: update initramfs
66
67 # EOF
68 ...

```

### 3.1.27 netplan.yml

Synopsis: Configure netplan.

Description of the task.

[netplan.yml]

```

1 ---
2 # linux-postinstall netplan
3
4 # Configure 01-network-manager-all.yaml only if it already exists
5 - name: "netplan: Stat {{ lp_netplan_default }}"
6   stat:
7     path: "{{ lp_netplan_root }}/{{ lp_netplan_default }}"
8   register: result
9
10 - name: "netplan: Configure {{ lp_netplan_root }}/{{ lp_netplan_default }}"
11   template:
12     src: netplan-default.j2
13     dest: "{{ lp_netplan_root }}/{{ lp_netplan_default }}"
14     owner: "{{ lp_netplan_owner }}"
15     group: "{{ lp_netplan_group }}"
16     mode: "{{ lp_netplan_mode }}"
17     backup: "{{ lp_backup_conf }}"
18   notify: netplan apply
19   when: result.stat.exists|default(false)
20
21 - name: "netplan: Configure files in {{ lp_netplan_root }}"
22   template:
23     src: netplan-conf.j2
24     dest: "{{ lp_netplan_root }}/{{ item.file }}"
25     owner: "{{ item.owner | default(lp_netplan_owner) }}"
26     group: "{{ item.group | default(lp_netplan_group) }}"
27     mode: "{{ item.mode | default(lp_netplan_mode) }}"
28     backup: "{{ lp_backup_conf }}"
29   loop: "{{ lp_netplan_conf }}"
30   notify: netplan apply
31
32 # EOF
33 ...

```

### 3.1.28 nfsd.yml

Synopsis: Configure nfsd.

Description of the task.

[nfsd.yml]

```

1 ---
2 # linux-postinstall nfsd
3
4 - name: "nfsd: Install packages"
5   include_tasks: fn/install-package.yml
6   loop: "{{ lp_nfsd_packages }}"
7   tags: lp_nfsd_packages
8
9 - name: "nfsd: Configure exports"
10  template:
11    src: exports.j2
12    dest: /etc/exports
13    owner: root

```

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```

14     group: root
15     mode: "0644"
16     notify: reload nfsd
17     tags: lp_nfsd_exports
18
19 - name: "nfsd: Enable and start nfsd services"
20   systemd:
21     name: "{{ item }}"
22     enabled: true
23     state: started
24   loop: "{{ lp_nfsd_services }}"
25   when:
26     - lp_nfsd_enable|bool
27     - lp_nfsd_services|length > 0
28   tags: lp_nfsd_service
29
30 - name: "nfsd: Stop and disable nfsd services"
31   systemd:
32     name: "{{ item }}"
33     enabled: false
34     state: stopped
35   loop: "{{ lp_nfsd_services }}"
36   when:
37     - not lp_nfsd_enable|bool
38     - lp_nfsd_services|length > 0
39   tags: lp_nfsd_service
40
41 # EOF
42 ...

```

### 3.1.29 packages-auto.yml

Synopsis: Configure packages-auto.

Description of the task.

[packages-auto.yml]

```

1 ---
2 # linux-postinstall packages-auto
3
4 - name: "packages-auto: Init variable local_pkg_lists"
5   set_fact:
6     local_pkg_lists: []
7     local_pkg_list: []
8   tags: lp_packages_auto
9
10 - name: "packages-auto: List variables ^lp.*_packages$"
11   set_fact:
12     local_pkg_lists: "{{ local_pkg_lists +
13                          [{'install': item.split('_')[0] + '_' + item.split('_')[1],
14                           'packages': item}] }}"
15   loop: "{{ hostvars[inventory_hostname].keys() |
16              select('match', '^lp.*_packages$') |
17              list }}"
18   tags: lp_packages_auto

```

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```

19 - name: "packages-auto: Debug local_pkg_lists"
20   debug:
21     msg: "[{{ lookup('vars', item.install, default='false')|bool }}]
22           packages [{{ lookup('vars', item.packages) }}"
23   loop: "[{{ local_pkg_lists }}"
24   when: lp_packages_debug|bool
25   tags: lp_packages_auto
26
27 - name: "packages-auto: Create local_pkg_list"
28   set_fact:
29     local_pkg_list: "[{{ local_pkg_list + lookup('vars', item.packages) }}"
30   loop: "[{{ local_pkg_lists }}"
31   when: lookup('vars', item.install, default='False')|bool
32   tags: lp_packages_auto
33
34 - name: "packages-auto: Debug local_pkg_list"
35   debug:
36     var: local_pkg_list
37   when: lp_packages_debug|bool
38   tags: lp_packages_auto
39
40 - name: "packages-auto: Install packages"
41   include_tasks: fn/install-package.yml
42   loop: "[{{ local_pkg_list }}"
43   tags: lp_packages_auto
44
45 # EOF
46 ...
47

```

### 3.1.30 packages.yml

Synopsis: Configure packages.

Description of the task.

[packages.yml]

```

1 ---
2 # linux-postinstall packages
3
4 - name: "packages: Debug"
5   vars:
6     msg: |
7       ansible_os_family [{{ ansible_os_family }}]
8       lp_packages_auto [{{ lp_packages_auto }}]
9       lp_packages_autoremove [{{ lp_packages_autoremove }}]
10      lp_packages_selections_preinstall
11      [{{ lp_packages_selections_preinstall|to_nice_yaml }}]
12      lp_packages_install
13      [{{ lp_packages_install|to_nice_yaml }}]
14      lp_packages_remove
15      [{{ lp_packages_remove|to_nice_yaml }}]
16      lp_packages_selections_postinstall
17      [{{ lp_packages_selections_postinstall|to_nice_yaml }}]
18   debug:

```

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```

19     msg: "{{ msg.split('\n')[:-1] }}"
20 when: lp_packages_debug|bool
21 tags: lp_packages_debug
22
23 - name: "packages: Configure package selections before Install/Remove"
24   dpkg_selections:
25     name: "{{ item.name }}"
26     selection: "{{ item.selection }}"
27   loop: "{{ lp_packages_selections_preinstall }}"
28   when: ansible_os_family == "Debian"
29   tags: lp_packages_selections_preinstall
30
31 - name: "packages: Install packages listed in variables lp*_packages"
32   include_tasks: packages-auto.yml
33   when: lp_packages_auto|bool
34   tags: lp_packages_auto
35
36 - name: "packages: Install packages"
37   include_tasks: fn/install-package.yml
38   loop: "{{ lp_packages_install }}"
39   tags: lp_packages_install
40
41 - name: "packages: Remove packages"
42   include_tasks: fn/remove-package.yml
43   loop: "{{ lp_packages_remove }}"
44   tags: lp_packages_remove
45
46 - name: "packages: Configure package selections after Install/Remove"
47   dpkg_selections:
48     name: "{{ item.name }}"
49     selection: "{{ item.selection }}"
50   loop: "{{ lp_packages_selections_postinstall }}"
51   when: ansible_os_family == "Debian"
52   tags: lp_packages_selections_postinstall
53
54 # EOF
55 ...

```

### 3.1.31 passwords.yml

Synopsis: Configure passwords.

Description of the task.

[passwords.yml]

```

1 ---
2
3 - name: "passwords: 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_users
9       {% if lp_passwords_debug_classified|bool %}
10      [{{ lp_users|default([])|to_nice_yaml }}]

```

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```

11     {% else %}
12     {% for user in lp_users|default([]) %}
13     - userpass: *****
14     {% for k,v in user.items() %}
15     {% if k not in ['userpass'] %}
16         {{ k }}: {{ v }}
17     {% endif %}
18     {% endfor %}
19     {% endfor %}
20     {% endif %}
21
22     lp_passwordstore [{{ lp_passwordstore }}]
23     lp_passwordstore_install [{{ lp_passwordstore_install }}]
24     lp_passwordstore_debug [{{ lp_passwordstore_debug }}]
25     lp_passwordstore_backup [{{ lp_passwordstore_backup }}]
26     lp_passwordstore_create [{{ lp_passwordstore_create }}]
27     lp_passwordstore_length [{{ lp_passwordstore_length }}]
28     lp_passwordstore_nosymbols [{{ lp_passwordstore_nosymbols }}]
29     lp_passwordstore_overwrite [{{ lp_passwordstore_overwrite }}]
30     lp_passwordstore_passwordstore [{{ lp_passwordstore_passwordstore }}]
31     lp_passwordstore_returnall [{{ lp_passwordstore_returnall }}]
32     lp_passwordstore_subkey [{{ lp_passwordstore_subkey }}]
33     lp_passwordstore_idempotent_password_hash [{{ lp_passwordstore_idempotent_
↪password_hash }}]
34     lp_passwordstore_packages
35     {{ lp_passwordstore_packages|to_nice_yaml }}
36     debug:
37         msg: "{{ msg.split('\n')[:-1] }}"
38     when: lp_passwords_debug|bool
39     tags: lp_passwords_debug
40
41 - name: "passwords: Passwordstore"
42   block:
43     - name: "passwords: Passwordstore: Install packages"
44       include_tasks: fn/install-package.yml
45       loop:
46         - "{{ lp_passwordstore_packages }}"
47         - "{{ lp_gpg_packages }}"
48         - "{{ lp_gpg_packages_extra }}"
49       vars:
50         my_delegate_to_localhost: true
51       run_once: true
52       when: lp_passwordstore_install|bool
53   - name: "passwords: Passwordstore: Retrieve, create, or update userpass"
54     include_role:
55       name: vbotka.ansible_lib
56       tasks_from: al_pws_user_host.yml
57     vars:
58       al_pws_debug: "{{ lp_passwordstore_debug }}"
59       al_pws_backup: "{{ lp_passwordstore_backup }}"
60       al_pws_create: "{{ lp_passwordstore_create }}"
61       al_pws_length: "{{ lp_passwordstore_length }}"
62       al_pws_nosymbols: "{{ lp_passwordstore_nosymbols }}"
63       al_pws_overwrite: "{{ lp_passwordstore_overwrite }}"
64       al_pws_passwordstore: "{{ lp_passwordstore_passwordstore }}"
65       al_pws_returnall: "{{ lp_passwordstore_returnall }}"
66       al_pws_subkey: "{{ lp_passwordstore_subkey }}"

```

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```

67     al_pws_idempotent_password_hash: "{{ lp_passwordstore_idempotent_password_
↪hash }}"
68     al_pws_query: "{{ lp_users }}"
69     register: result
70     - name: "passwords: Passwordstore: Create my_passwords"
71     set_fact:
72         my_passwords: "{{ my_passwords|default([]) +
73                             [item|dict2items|
74                             rejectattr('key', 'equalto', 'userpass')|
75                             list|items2dict|
76                             combine({'update_password': lp_password_update_password})] }
↪ }}"
77     loop: "{{ al_pws_query_result }}"
78     loop_control:
79         label: "{{ item.name }}"
80     - name: "passwords: Passwordstore: Debug my_passwords"
81     debug:
82         var: my_passwords
83     when: lp_passwords_debug|bool
84     - name: "passwords: Passwordstore: Include users"
85     include_tasks: users.yml
86     vars:
87         lp_users: "{{ my_passwords }}"
88     rescue:
89         - name: "passwords: Passwordstore: Debug fail"
90         debug:
91             var: result
92         when: lp_passwords_debug_classified|bool
93         - name: "passwords: Passwordstore: Fail"
94         fail:
95             msg: "[ERROR] Passwordstore failed."
96         when: not lp_passwords_fail_gracefully|bool
97     when: lp_passwordstore|bool
98     tags: lp_passwords_passwordstore
99
100 # EOF
101 ...

```

### 3.1.32 pm-utils.yml

Synopsis: Configure pm-utils.

Description of the task.

[pm-utils.yml]

```

1 ---
2 # linux-postinstall pm-utils
3
4 # TODO:
5 # 1) add variables: lp_pm_powerd, lp_pm_configd
6 # 2) add templates: pm-powerd.j2, pm-configd.j2
7 # 3) add cases: resume, thaw, suspend, hibernate
8 # 4) install pm-utils
9
10 - name: "pm_utils: Configure /etc/pm/sleep.d"

```

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```

11  template:
12      src: pm-sleepd.j2
13      dest: "/etc/pm/sleep.d/{{ item.value.file }}"
14      owner: root
15      group: root
16      mode: "0755"
17      backup: "{{ lp_backup_conf }}"
18      with_dict: "{{ lp_pm_sleepd|default({}) }}"
19      when: item.value.file|length > 0
20
21  # EOF
22  ...

```

### 3.1.33 postfix.yml

Synopsis: Configure postfix.

Description of the task.

[postfix.yml]

```

1  ---
2  # linux-postinstall postfix
3
4  - name: "postfix: Debug"
5    vars:
6      msg: |
7          ansible_os_family [{{ ansible_os_family }}]
8          lp_postfix_service [{{ lp_postfix_service }}]
9          lp_postfix_enable [{{ lp_postfix_enable }}]
10         lp_postfix_main_conf
11         {{ lp_postfix_main_conf|to_yaml }}
12    debug:
13      msg: "{{ msg.split('\n')[:-1] }}"
14    when: lp_postfix_debug|bool
15    tags: lp_postfix_debug
16
17  - name: "postfix: Configure /etc/postfix/main.cf"
18    lineinfile:
19      dest: /etc/postfix/main.cf
20      regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
21      line: "{{ item.key }} = {{ item.value }}"
22      create: true
23      backup: "{{ lp_backup_conf }}"
24    loop: "{{ lp_postfix_main_conf }}"
25    notify: reload postfix
26    tags: lp_postfix_conf
27
28  - name: "postfix: Enable and start postfix"
29    systemd:
30      name: "{{ lp_postfix_service }}"
31      enabled: true
32      state: started
33    when: lp_postfix_enable|bool
34    tags: lp_postfix_service
35

```

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```

36 - name: "postfix: Disable and stop postfix"
37   systemd:
38     name: "{{ lp_postfix_service }}"
39     enabled: false
40     state: stopped
41   when: not lp_postfix_enable|bool
42   tags: lp_postfix_service
43
44 # EOF
45 ...

```

### 3.1.34 reboot.yml

Synopsis: Configure reboot.

Description of the task.

[reboot.yml]

```

1 ---
2 # linux-postinstall reboot
3
4 - name: "reboot Debug"
5   vars:
6     msg: |
7       lp_reboot_force [{{ lp_reboot_force }}]
8       lp_reboot_required_ignore [{{ lp_reboot_required_ignore }}]
9       lp_reboot_required_file [{{ lp_reboot_required_file }}]
10      lp_reboot_command [{{ lp_reboot_command }}]
11      lp_reboot_wait_connect_timeout [{{ lp_reboot_wait_connect_timeout }}]
12      lp_reboot_wait_sleep [{{ lp_reboot_wait_sleep }}]
13      lp_reboot_wait_delay [{{ lp_reboot_wait_delay }}]
14      lp_reboot_wait_timeout [{{ lp_reboot_wait_timeout }}]
15   debug:
16     msg: "{{ msg.split('\n')[:-1] }}"
17   when: lp_reboot_debug|bool
18
19 - name: "reboot: Debian test {{ lp_reboot_required_file }}"
20   block:
21     - name: "reboot: Stat {{ lp_reboot_required_file }}"
22       stat:
23         path: "{{ lp_reboot_required_file }}"
24         register: reboot_required_file_status
25     - name: "reboot: Set reboot_required"
26       set_fact:
27         reboot_required: "{{ reboot_required_file_status.exists|
28                           default(false) }}"
29   when: ansible_os_family == "Debian"
30
31 - name: "reboot: RedHat test {{ lp_reboot_required_command }}"
32   block:
33     - name: "reboot: Run {{ lp_reboot_required_command }}"
34       command: "{{ lp_reboot_required_command }}"
35       register: reboot_required_cmd_status
36     - name: "reboot: Set reboot_required"
37       set_fact:

```

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```

38     reboot_required: "{{ (reboot_required_cmd_status.rc != 0) |
39         ternary(true, false) }}"
40 when: ansible_os_family == "RedHat"
41
42 - name: "reboot: Debug reboot_required"
43   debug:
44     var: reboot_required
45   when: lp_reboot_debug|bool
46
47 - name: "reboot: Reboot and wait for connection"
48   reboot:
49     connect_timeout: "{{ lp_reboot_wait_connect_timeout }}"
50     post_reboot_delay: "{{ lp_reboot_wait_delay }}"
51     reboot_timeout: "{{ lp_reboot_wait_timeout }}"
52   when: (reboot_required|default(false) and
53     (not lp_reboot_required_ignore)) or
54     lp_reboot_force|bool
55
56 # - name: "reboot: Reboot and wait for connection"
57 #   block:
58 #     - name: "reboot: Reboot" # noqa 305
59 #       shell: "{{ lp_reboot_command }}"
60 #       async: 1
61 #       poll: 0
62 #     - name: "reboot: Wait for connection"
63 #       wait_for_connection:
64 #         connect_timeout: "{{ lp_reboot_wait_connect_timeout }}"
65 #         sleep: "{{ lp_reboot_wait_sleep }}"
66 #         delay: "{{ lp_reboot_wait_delay }}"
67 #         timeout: "{{ lp_reboot_wait_timeout }}"
68 #       when: (reboot_required|default(false) and
69 #         (not lp_reboot_required_ignore)) or lp_reboot_force
70
71 # EOF
72 ...

```

### 3.1.35 repos.yml

Synopsis: Configure repos.

Description of the task.

[repos.yml]

```

1 ---
2 # linux-postinstall repos
3
4 - name: "repos: Debug"
5   vars:
6     msg: |
7       lp_repos_keys
8       {{ lp_repos_keys|to_nice_yaml }}
9       lp_repos
10      {{ lp_repos|to_nice_yaml }}
11   debug:
12     msg: "{{ msg.split('\n')[:-1] }}"

```

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```

13  when: lp_repos_debug|bool
14  tags: lp_repos_debug
15
16 - name: "repos: Manage repo signing keys"
17   apt_key:
18     data: "{{ item.data|default(omit) }}"
19     file: "{{ item.file|default(omit) }}"
20     id: "{{ item.id|default(omit) }}"
21     keyring: "{{ item.keyring|default(omit) }}"
22     keyserver: "{{ item.keyserver|default(omit) }}"
23     state: "{{ item.state|default(omit) }}"
24     url: "{{ item.url|default(omit) }}"
25     validate_certs: "{{ item.validate_certs|default(omit) }}"
26   loop: "{{ lp_repos_keys }}"
27   register: result
28   retries: "{{ lp_install_retries }}"
29   until: result is succeeded
30   delay: "{{ lp_install_delay }}"
31   tags: lp_repos_keys_manage
32
33 - name: "repos: Manage repositories"
34   apt_repository:
35     codename: "{{ item.codename|default(omit) }}"
36     filename: "{{ item.filename|default(omit) }}"
37     mode: "{{ item.mode|default(omit) }}"
38     repo: "{{ item.repo|mandatory }}"
39     state: "{{ item.state|default(omit) }}"
40     update_cache: "{{ item.update_cache|default(omit) }}"
41     validate_certs: "{{ item.validate_certs|default(omit) }}"
42   loop: "{{ lp_repos }}"
43   tags: lp_repos_manage
44
45 # EOF
46 ...

```

### 3.1.36 resolvconf.yml

Synopsis: Configure resolvconf.

Description of the task.

[resolvconf.yml]

```

1  ---
2
3 - name: "resolvconf: Debug"
4   vars:
5     msg: |
6       lp_resolvconf_service [{{ lp_resolvconf_service }}]
7       lp_resolvconf_enable [{{ lp_resolvconf_enable }}]
8       lp_package_state [{{ lp_package_state }}]
9       lp_resolvconf_packages
10      {{ lp_resolvconf_packages|to_nice_yaml }}
11      lp_resolvconf_conf_d_head_path [{{ lp_resolvconf_conf_d_head_path }}]
12      lp_resolvconf_conf_owner [{{ lp_resolvconf_conf_owner }}]
13      lp_resolvconf_conf_group [{{ lp_resolvconf_conf_group }}]

```

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```

14     lp_resolvconf_conf_mode [{{ lp_resolvconf_conf_mode }}]
15     lp_resolvconf_confd_head
16     {{ lp_resolvconf_confd_head|to_yaml }}
17 debug:
18     msg: "{{ msg.split('\n')[:-1] }}"
19 when: lp_resolvconf_debug|bool
20 tags: lp_resolvconf_debug
21
22 - name: "resolvconf: Install packages"
23   include_tasks: fn/install-package.yml
24   loop: "{{ lp_resolvconf_packages }}"
25   tags: lp_resolvconf_packages
26
27 - name: "resolvconf: Configure {{ lp_resolvconf_confd_head_path }}"
28   template:
29     src: resolvconf-confd-head.j2
30     dest: "{{ lp_resolvconf_confd_head_path }}"
31     owner: "{{ lp_resolvconf_conf_owner }}"
32     group: "{{ lp_resolvconf_conf_group }}"
33     mode: "{{ lp_resolvconf_conf_mode }}"
34     backup: "{{ lp_backup_conf }}"
35   notify: restart resolvconf
36   tags: lp_resolvconf_confd_head
37
38 - name: "resolvconf: Enable and start resolvconf"
39   systemd:
40     name: "{{ lp_resolvconf_service }}"
41     enabled: true
42     state: started
43   when: lp_resolvconf_enable|bool
44   tags: lp_resolvconf_service
45
46 - name: "resolvconf: Disable and stop resolvconf"
47   systemd:
48     name: "{{ lp_resolvconf_service }}"
49     enabled: false
50     state: stopped
51   when: not lp_resolvconf_enable|bool
52   tags: lp_resolvconf_service
53
54 # EOF
55 ...

```

### 3.1.37 service.yml

Synopsis: Configure service.

Description of the task.

[service.yml]

```

1 ---
2 # linux-postinstall service
3
4 - name: "service: Set my_service_name_vars"
5   set_fact:

```

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```

6     my_service_name_vars: "{{ my_service_name_vars|default([]) +
7                               [{item: lookup('vars', 'lp_' + item + '_service')}] }}"
8     loop: "{{ lp_service_enable }}"
9     when: lookup('vars', 'lp_' + item, default='false')
10    tags: lp_service_debug
11
12 - name: "service: Set my_service_enable_vars"
13   set_fact:
14     my_service_enable_vars: "{{ my_service_enable_vars|default([]) +
15                                 [{item: lookup('vars', 'lp_' + item + '_enable')}] }}"
16   loop: "{{ lp_service_enable }}"
17   when: lookup('vars', 'lp_' + item, default='false')
18   tags: lp_service_debug
19
20 - name: "service: Debug"
21   debug:
22     msg: "{{ my_msg.split('\n')[:-1] }}"
23   vars:
24     my_msg: |
25       lp_service
26       {{ lp_service|to_nice_yaml }}
27       lp_service_enable
28       {{ lp_service_enable|to_nice_yaml }}
29       my_service_name_vars
30       {{ my_service_name_vars|default([])|to_nice_yaml }}
31       my_service_enable_vars
32       {{ my_service_enable_vars|default([])|to_nice_yaml }}
33   when: lp_service_debug|bool
34   tags: lp_service_debug
35
36 - name: "service: Automatically enable or disable services managed by this role"
37   service:
38     name: "{{ lookup('vars', 'lp_' + item + '_service') }}"
39     enabled: "{{ lookup('vars', 'lp_' + item + '_enable') }}"
40     loop: "{{ lp_service_enable }}"
41     when: lookup('vars', 'lp_' + item, default='false')
42     tags: lp_service_auto
43
44 - name: "service: General managment of services"
45   service:
46     name: "{{ item.name }}"
47     state: "{{ item.state|default(omit) }}"
48     enabled: "{{ item.enabled|default(omit) }}"
49     arguments: "{{ item.arguments|default(omit) }}"
50     pattern: "{{ item.pattern|default(omit) }}"
51     runlevel: "{{ item.runlevel|default(omit) }}"
52     sleep: "{{ item.sleep|default(omit) }}"
53     use: "{{ item.use|default('omit') }}"
54     loop: "{{ lp_service }}"
55     when: (item.state is defined) or
56           (item.enabled is defined)
57     tags: lp_service_general
58
59 # TODO: Mask a service. Do not allow any service to activate a masked
60 # service. See tasks/wpagui.yml
61
62 # EOF

```

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63 ...

### 3.1.38 smart.yml

Synopsis: Configure smart.

Description of the task.

[smart.yml]

```

1  ---
2  # linux-postinstall smart
3
4  - name: "smart: Install packages"
5    include_tasks: fn/install-package.yml
6    loop: "{{ lp_smart_packages }}"
7    tags: lp_smart_packages
8
9  - name: "smart: Configure {{ lp_smart_conf_file }}. Do not scan for devices"
10   lineinfile:
11     state: absent
12     dest: "{{ lp_smart_conf_file }}"
13     regexp: "^\\s*DEVICESCAN\\s*(.*)$"
14     owner: "{{ lp_smart_conf_owner }}"
15     group: "{{ lp_smart_conf_group }}"
16     mode: "{{ lp_smart_conf_mode }}"
17     create: true
18     backup: "{{ lp_backup_conf }}"
19     when: not lp_smart_devicescan|bool
20     notify: reload smart
21     tags: lp_smart_conf
22
23  - name: "smart: Configure devices in {{ lp_smart_conf_file }}"
24   lineinfile:
25     dest: "{{ lp_smart_conf_file }}"
26     regexp: "{{ item.regexp }}"
27     line: "{{ item.line }}"
28     owner: "{{ lp_smart_conf_owner }}"
29     group: "{{ lp_smart_conf_group }}"
30     mode: "{{ lp_smart_conf_mode }}"
31     create: true
32     backup: "{{ lp_backup_conf }}"
33     loop: "{{ lp_smart_devices }}"
34     notify: reload smart
35     tags: lp_smart_conf
36
37  - name: "smart: Start and enable smart"
38   service:
39     name: "{{ lp_smart_service }}"
40     state: started
41     enabled: true
42     register: result
43     when: lp_smart_enable|bool
44     tags: lp_smart_service
45
46  - name: "smart: Debug service"

```

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```

47  debug:
48      var: result
49  when: lp_smart_debug|bool
50
51  - name: "smart: Stop and disable smart"
52    service:
53        name: "{{ lp_smart_service }}"
54        state: stopped
55        enabled: false
56    register: result
57    when: not lp_smart_enable|bool
58    tags: lp_smart_service
59
60  - name: "smart: Debug service"
61    debug:
62        var: result
63    when: lp_smart_debug|bool
64
65  # EOF
66  ...

```

### 3.1.39 speechd.yml

Synopsis: Configure speechd.

Description of the task.

[speechd.yml]

```

1  ---
2  # linux-postinstall speechd
3
4  - name: "speechd: Debug"
5    debug:
6        msg: "lp_speechd_enable [{{ lp_speechd_enable }}"
7    when: lp_speechd_debug|bool
8
9  - name: "speechd: Enable and start speech-dispatcher"
10    systemd:
11        name: "{{ lp_speechd_service }}"
12        enabled: true
13        state: started
14    when: lp_speechd_enable|bool
15
16  - name: "speechd: Stop and disable speech-dispatcher"
17    systemd:
18        name: "{{ lp_speechd_service }}"
19        enabled: false
20        state: stopped
21    when: not lp_speechd_enable|bool
22
23  # EOF
24  ...

```

### 3.1.40 sshd.yml

Synopsis: Configure sshd.

Description of the task.

[sshd.yml]

```

1  ---
2  # linux-postinstall sshd
3
4  - name: "sshd: Debug"
5    vars:
6      msg: |
7        lp_sshd_config
8        {{ lp_sshd_config|to_yaml }}
9    debug:
10     msg: "{{ msg.split('\n')[:-1] }}"
11    when: lp_sshd_debug|bool
12    tags: lp_sshd_debug
13
14  - name: "sshd: Configure /etc/ssh/sshd_config"
15    lineinfile:
16     dest: /etc/ssh/sshd_config
17     regexp: "^\\s*{{ item.key }}\\s*(.*)$"
18     insertbefore: "^{{ '#' }}{{ item.key }}\\s*(.*)$"
19     line: "{{ item.key }} {{ item.value }}"
20     backup: "{{ lp_backup_conf }}"
21     validate: "{{ lp_sshd_path }} -t -f %s"
22     loop: "{{ lp_sshd_config }}"
23     notify: reload sshd
24     tags: lp_sshd_config
25
26  - name: "sshd: Enable and start sshd"
27    systemd:
28     name: "{{ lp_sshd_service }}"
29     enabled: true
30     state: started
31    when: lp_sshd_enable|bool
32    tags: lp_sshd_service
33
34  - name: "sshd: Disable and stop sshd"
35    systemd:
36     name: "{{ lp_sshd_service }}"
37     enabled: false
38     state: stopped
39    when: not lp_sshd_enable|bool
40    tags: lp_sshd_service
41
42  # EOF
43  ...

```

### 3.1.41 ssh.yml

Synopsis: Configure ssh.

Description of the task.

[ssh.yml]

```

1 ---
2 # linux-postinstall ssh
3
4 - name: "ssh: Debug"
5   vars:
6     msg: |
7       lp_ssh_config
8       {{ lp_ssh_config|to_yaml }}
9   debug:
10    msg: "{{ msg.split('\n')[:-1] }}"
11  when: lp_ssh_debug|bool
12  tags: lp_ssh_debug
13
14 - name: "ssh: Configure /etc/ssh/ssh_config"
15   template:
16     src: ssh_config.j2
17     dest: /etc/ssh/ssh_config
18     backup: "{{ lp_backup_conf }}"
19   tags: lp_ssh_conf
20
21 # EOF
22 ...

```

### 3.1.42 sudoers.yml

Synopsis: Configure sudoers.

Description of the task.

[sudoers.yml]

```

1 ---
2 # linux-postinstall sudoers
3
4 - name: "sudoers: Debug"
5   vars:
6     msg: |
7       lp_sudoers_conf
8       {{ lp_sudoers_conf|to_yaml }}
9   debug:
10    msg: "{{ msg.split('\n')[:-1] }}"
11  when: lp_sudoers_debug|bool
12  tags: lp_sudoers_debug
13
14 - name: "sudoers: Configure /etc/sudoers"
15   lineinfile:
16     path: /etc/sudoers
17     line: "{{ item.line }}"
18     state: "{{ item.state|default('present') }}"
19     create: true
20     backup: "{{ lp_backup_conf }}"
21   loop: "{{ lp_sudoers_conf }}"
22   tags: lp_sudoers_conf
23
24 - name: "sudoers: Configure /etc/sudoers.d/01"

```

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```

25 lineinfile:
26     path: /etc/sudoers.d/01
27     line: "{{ item }}"
28     owner: "{{ lp_sudoers_owner }}"
29     group: "{{ lp_sudoers_group }}"
30     mode: "{{ lp_sudoers_mode }}"
31     create: true
32     backup: "{{ lp_backup_conf }}"
33     loop: "{{ lp_sudoers_01 }}"
34     tags: lp_sudoers_dconf
35
36 # EOF
37 ...

```

### 3.1.43 swap.yml

Synopsis: Configure swap.

Description of the task.

[swap.yml]

```

1 ---
2
3 - name: "swap: Debug"
4   vars:
5     msg: |
6       lp_swap [{{ lp_swap }}]
7       lp_swap_enable [{{ lp_swap_enable }}]
8       lp_swap_file [{{ lp_swap_file|default("UNDEFINED") }}]
9       lp_swap_size [{{ lp_swap_size|default("UNDEFINED") }}]
10      lp_swap_stsize [{{ lp_swap_stsize|default("UNDEFINED") }}]
11   debug:
12     msg: "{{ msg.split('\n')[:-1] }}"
13   when: lp_swap_debug|bool
14   tags: lp_swap_debug
15
16 - name: "swap: Create swapfile {{ lp_swap_file }}"
17   shell: sh -c 'if [ ! -e {{ lp_swap_file }} ]; then printf "create"; fi'
18   register: command_result
19   changed_when: command_result.stdout == "create"
20   notify: create and mount swap file
21   tags: lp_swap_swapfile
22
23 - name: "swap: Change swapfile {{ lp_swap_file }}"
24   shell: >
25     sh -c
26     'if [ -e {{ lp_swap_file }} ] &&
27     [ "`stat --format '%s' {{ lp_swap_file }}" -ne "{{ lp_swap_stsize }}" ];
28     then printf "change";
29     fi'
30   register: command_result
31   changed_when: command_result.stdout == "change"
32   notify: change and mount swap file
33   tags: lp_swap_swapfile
34

```

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```

35 - name: "swap: Create swap entry in /etc/fstab"
36   mount:
37     name: "none"
38     src: "{{ lp_swap_file }}"
39     fstype: swap
40     opts: sw
41     passno: "0"
42     dump: "0"
43     state: present
44     backup: "{{ lp_backup_conf }}"
45   when: lp_swap_enable|bool
46   tags: lp_swap_fstab
47
48 - name: "swap: Remove swap entry from /etc/fstab"
49   mount:
50     name: "none"
51     src: "{{ lp_swap_file }}"
52     fstype: swap
53     opts: sw
54     passno: 0
55     dump: 0
56     state: absent
57     backup: "{{ lp_backup_conf }}"
58   notify: remove swap file
59   when:
60     - not lp_swap_enable|bool
61     - lp_swap_file is defined
62   tags: lp_swap_swapfile
63
64 # EOF
65 ...

```

### 3.1.44 sysctl.yml

Synopsis: Configure sysctl.

Description of the task.

[sysctl.yml]

```

1 ---
2 # linux-postinstall sysctl
3
4 - name: "sysctl: Debug"
5   vars:
6     msg: |
7       lp_sysctl_vars
8       {{ lp_sysctl_vars|to_yaml }}
9   debug:
10     msg: "{{ msg.split('\n')[:-1] }}"
11   when: lp_sysctl_debug|bool
12   tags: lp_sysctl_debug
13
14 - name: "sysctl: Configure /etc/sysctl.conf"
15   lineinfile:
16     dest: /etc/sysctl.conf

```

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```

17     regexp: "^\\s*{{ item.var }}\\s*(.*)$"
18     line: "{{ item.var }} = {{ item.value }}"
19     backup: "{{ lp_backup_conf }}"
20     loop: "{{ lp_sysctl_vars }}"
21     notify: load sysctl settings
22
23 # EOF
24 ...

```

### 3.1.45 timesyncd.yml

Synopsis: Configure timesyncd.

Description of the task.

[timesyncd.yml]

```

1 ---
2
3 - name: "timesyncd: Debug"
4   vars:
5     msg: |
6       lp_timesyncd [{{ lp_timesyncd }}]
7       lp_timesyncd_NTP [{{ lp_timesyncd_NTP }}]
8       lp_timesyncd_FallbackNTP [{{ lp_timesyncd_FallbackNTP }}]
9       lp_timesyncd_RootDistanceMaxSec [{{ lp_timesyncd_RootDistanceMaxSec }}]
10      lp_timesyncd_PollIntervalMinSec [{{ lp_timesyncd_PollIntervalMinSec }}]
11      lp_timesyncd_PollIntervalMaxSec [{{ lp_timesyncd_PollIntervalMaxSec }}]
12   debug:
13     msg: "{{ msg.split('\n')[:-1] }}"
14   when: lp_timesyncd_debug|bool
15   tags: lp_timesyncd_debug
16
17 - name: "timesyncd: Configure /etc/systemd/timesyncd.conf"
18   template:
19     src: timesyncd.conf.j2
20     dest: /etc/systemd/timesyncd.conf
21     owner: root
22     group: root
23     mode: "0644"
24     backup: "{{ lp_backup_conf }}"
25   notify: restart timesyncd
26   tags: lp_timesyncd_conf
27
28 - name: "timesyncd: Enable and start timesyncd"
29   service:
30     name: "{{ lp_timesyncd_service }}"
31     state: started
32     enabled: true
33   when: lp_timesyncd_enable|bool
34   tags: lp_timesyncd_service
35
36 - name: "timesyncd: Disable and stop timesyncd"
37   service:
38     name: "{{ lp_timesyncd_service }}"
39     state: stopped

```

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```

40     enabled: false
41     when: not lp_timesyncd_enable|bool
42     tags: lp_timesyncd_service
43
44     # Notes on CentOS
45     # * systemd compiled without timesyncd service in CentOS 7 ?
46     # * use ntpd or chrony only ?
47     # https://unix.stackexchange.com/questions/286708/
48     # centos-7-2-minimal-time-synchronization-timedated-and-or-ntpd-chrony
49     # https://www.freedesktop.org/wiki/Software/systemd/timedated/
50
51     # EOF
52     ...

```

### 3.1.46 timezone.yml

Synopsis: Configure timezone.

Description of the task.

[timezone.yml]

```

1  ---
2
3  - name: "timezone: Debug"
4    debug:
5      msg: "lp_timezone_zoneinfo [{{ lp_timezone_zoneinfo }}]"
6    when: lp_timezone_debug|bool
7    tags: lp_timezone_debug
8
9  - name: "timezone: Set timezone [{{ lp_timezone_zoneinfo }}"
10    timezone:
11      name: "[{{ lp_timezone_zoneinfo|default('UTC') }}"
12    tags: lp_timezone_set
13
14  # EOF
15  ...

```

### 3.1.47 tlp.yml

Synopsis: Configure tlp.

Description of the task.

[tlp.yml]

```

1  ---
2  # linux-postinstall tlp
3
4  - name: "tlp: Debug"
5    vars:
6      msg: |
7        lp_tlp_enable [{{ lp_tlp_enable }}]
8        lp_tlp_thinkpad [{{ lp_tlp_thinkpad }}]
9        lp_tlp_packages

```

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```

10     {{ lp_tlp_packages|to_nice_yaml }}
11     lp_tlp_packages_tp
12     {{ lp_tlp_packages_tp|to_nice_yaml }}
13     lp_tlp_config_file [{{ lp_tlp_config_file }}]
14     lp_tlp_config
15     {{ lp_tlp_config|to_nice_yaml }}
16     lp_tlp_services
17     {{ lp_tlp_services|to_nice_yaml }}
18     lp_tlp_restart_service [{{ lp_tlp_restart_service }}]
19 debug:
20     msg: "{{ msg.split('\n')[:-1] }}"
21 when: lp_tlp_debug|bool
22 tags: lp_tlp_debug
23
24 - name: "tlp: Install packages"
25   include_tasks: fn/install-package.yml
26   loop: "{{ lp_tlp_packages }}"
27   tags: lp_tlp_packages
28
29 - name: "tlp: Install packages for ThinkPad"
30   include_tasks: fn/install-package.yml
31   loop: "{{ lp_tlp_packages_tp }}"
32   when: lp_tlp_thinkpad|bool
33   tags: lp_tlp_packages
34
35 - name: "tlp: Configure {{ lp_tlp_config_file }}"
36   lineinfile:
37     dest: "{{ lp_tlp_config_file }}"
38     regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
39     line: "{{ item.key }}={{ item.value }}"
40     create: true
41   loop: "{{ lp_tlp_config }}"
42   notify: restart tlp
43   tags: lp_tlp_conf
44
45 - name: "tlp: Start and enable tlp"
46   systemd:
47     name: "{{ item }}"
48     state: started
49     enabled: true
50   loop: "{{ lp_tlp_services }}"
51   when: lp_tlp_enable|bool
52   tags: lp_tlp_service
53
54 - name: "tlp: Stop and disable tlp"
55   systemd:
56     name: "{{ item }}"
57     state: stopped
58     enabled: false
59   loop: "{{ lp_tlp_services }}"
60   when: not lp_tlp_enable|bool
61   tags: lp_tlp_service
62
63 # EOF
64 ...

```

### 3.1.48 udev.yml

Synopsis: Configure udev.

Description of the task.

[udev.yml]

```

1  ---
2  # linux-postinstall udev
3
4  - name: "udev: Debug"
5    vars:
6      msg: |
7        lp_udev_rules_dir [{{ lp_udev_rules_dir }}]
8        lp_udev_rules_template [{{ lp_udev_rules_template }}]
9        lp_udev_rules
10       {{ lp_udev_rules|to_nice_yaml }}
11
12        lp_udev_persistent_net_template [{{ lp_udev_persistent_net_template }}]
13        lp_udev_persistent_net_rules_file [{{ lp_udev_persistent_net_rules_file }}]
14        lp_udev_persistent_net_rules
15        {{ lp_udev_persistent_net_rules|to_nice_yaml }}
16
17        lp_udev_hci_name_rules_file [{{ lp_udev_hci_name_rules_file }}]
18        lp_udev_hci_name_rules
19        {{ lp_udev_hci_name_rules|to_nice_yaml }}
20
21        lp_udev_hci_run_rules_file [{{ lp_udev_hci_run_rules_file }}]
22        lp_udev_hci_run_rules
23        {{ lp_udev_hci_run_rules|to_nice_yaml }}
24    debug:
25      msg: "{{ msg.split('\n')[:-1] }}"
26    when: lp_udev_debug|bool
27    tags: lp_udev_debug
28
29  # udev rules
30  - name: "udev: Configure {{ lp_udev_rules_dir }}"
31    template:
32      src: "{{ lp_udev_rules_template }}"
33      dest: "{{ lp_udev_rules_dir }}/{{ item.key }}"
34      owner: root
35      group: root
36      mode: "0644"
37      backup: "{{ lp_backup_conf }}"
38    loop: "{{ lp_udev_rules|dict2items }}"
39    notify: reload udev
40    tags: lp_udev_rules
41
42  # persistent_net
43  - name: "udev: Configure {{ lp_udev_rules_dir }}/{{ lp_udev_persistent_net_rules_file }}"
44    template:
45      src: "{{ lp_udev_persistent_net_template }}"
46      dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_persistent_net_rules_file }}"
47      owner: root
48      group: root
49      mode: "0644"
50      backup: "{{ lp_backup_conf }}"

```

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```

52  loop: "{{ lp_udev_persistent_net_rules }}"
53  notify: reload udev
54  tags: lp_udev_persistentnet
55
56  # hci name
57  - name: "udev: Configure {{ lp_udev_rules_dir }}/{{ lp_udev_hci_name_rules_file }}"
58                                {{ lp_udev_hci_name_rules_file }}"
59  template:
60    src: hci-name.rules.j2
61    dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_hci_name_rules_file }}"
62    owner: root
63    group: root
64    mode: "0644"
65    backup: "{{ lp_backup_conf }}"
66  loop: "{{ lp_udev_hci_name_rules }}"
67  notify: reload udev
68  tags: lp_udev_hciname
69
70  # hci run
71  - name: "udev: Configure {{ lp_udev_rules_dir }}/{{ lp_udev_hci_run_rules_file }}"
72                                {{ lp_udev_hci_run_rules_file }}"
73  template:
74    src: hci-run.rules.j2
75    dest: "{{ lp_udev_rules_dir }}/{{ lp_udev_hci_run_rules_file }}"
76    owner: root
77    group: root
78    mode: "0644"
79    backup: "{{ lp_backup_conf }}"
80  loop: "{{ lp_udev_hci_run_rules }}"
81  notify: reload udev
82  tags: lp_udev_hcirun
83
84  # Service
85  - name: "udev: Start and enable udev"
86    service:
87      name: "{{ lp_udev_service }}"
88      state: started
89      enabled: true
90  when: lp_udev_enable|bool
91  tags: lp_udev_service
92
93  - name: "udev: Stop and disable udev"
94    service:
95      name: "{{ lp_udev_service }}"
96      state: stopped
97      enabled: false
98  when: not lp_udev_enable|bool
99  tags: lp_udev_service
100
101  # EOF
102  ...

```

### 3.1.49 ufw.yml

Synopsis: Configure ufw.

Description of the task.

[ufw.yml]

```

1  ---
2  # linux-postinstall ufw
3
4  # Notes
5  #
6  # * Aliases of parameters in ufw module not implemented in task
7  # "Configure ufw".
8  # * It's not necessary to reload ufs after configuration has
9  # changed. Module ufw automatically updates the rules.
10 # * Best practice: First time 'lp_ufw_reset: true'; configure and enable
11 # ufs (configuration item {state: 'enabled'} reloads firewall and
12 # enables firewall on boot); 'lp_ufw_enable: true' start and enable ufw
13 # service.
14 # * Configuration on the fly: configure and enable ufs.
15 # * The last configuration item should be {state: 'enabled'}.
16 # * See: man ufw.
17
18 - name: "ufw: Debug"
19   vars:
20     msg: |
21       lp_ufw_enable [{{ lp_ufw_enable }}]
22       lp_ufw_reset [{{ lp_ufw_reset }}]
23       lp_ufw_reload [{{ lp_ufw_reload }}]
24       lp_ufw_packages
25       {{ lp_ufw_packages|to_nice_yaml }}
26       lp_ufw_conf
27       {{ lp_ufw_conf|to_yaml }}
28   debug:
29     msg: "{{ msg.split('\n')[:-1] }}"
30   when: lp_ufw_debug|bool
31   tags: lp_ufw_debug
32
33 - name: "ufw: Install packages"
34   include_tasks: fn/install-package.yml
35   loop: "{{ lp_ufw_packages }}"
36   tags: lp_ufw_packages
37
38 - name: "ufw: Disable and reset firewall to installation defaults"
39   ufw:
40     state: reset
41   when: lp_ufw_reset|bool
42   tags: lp_ufw_reset
43
44 - name: "ufw: Reload firewall"
45   ufw:
46     state: reloaded
47   when: lp_ufw_reload|bool
48   tags: lp_ufw_reload
49
50 - name: "ufw: Configure ufw"
51   ufw:
52     comment: "{{ item.comment|default(omit) }}"
53     default: "{{ item.default|default(omit) }}"
54     delete: "{{ item.delete|default(omit) }}"

```

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```

55     direction: "{{ item.direction|default(omit) }}"
56     from_ip: "{{ item.from_ip|default(omit) }}"
57     from_port: "{{ item.from_port|default(omit) }}"
58     insert: "{{ item.insert|default(omit) }}"
59     insert_relative_to: "{{ item.insert_relative_to|default(omit) }}"
60     interface: "{{ item.interface|default(omit) }}"
61     log: "{{ item.log|default(omit) }}"
62     logging: "{{ item.logging|default(omit) }}"
63     name: "{{ item.name|default(omit) }}"
64     proto: "{{ item.proto|default(omit) }}"
65     route: "{{ item.route|default(omit) }}"
66     rule: "{{ item.rule|default(omit) }}"
67     state: "{{ item.state|default(omit) }}"
68     to_ip: "{{ item.to_ip|default(omit) }}"
69     to_port: "{{ item.to_port|default(omit) }}"
70     loop: "{{ lp_ufw_conf }}"
71     tags: lp_ufw_conf
72
73 - name: "ufw: Start and enable ufw"
74   service:
75     name: "{{ lp_ufw_service }}"
76     state: started
77     enabled: true
78     register: result
79     when: lp_ufw_enable|bool
80     tags: lp_ufw_service
81
82 - name: "ufw: Debug enabled service"
83   debug:
84     var: result
85   when:
86     - lp_ufw_enable|bool
87     - lp_ufw_debug|bool
88   tags: lp_ufw_service
89
90 - name: "ufw: Stop and disable ufw"
91   service:
92     name: "{{ lp_ufw_service }}"
93     state: stopped
94     enabled: false
95     register: result
96     when: not lp_ufw_enable|bool
97     tags: lp_ufw_service
98
99 - name: "ufw: Debug disabled service"
100   debug:
101     var: result
102   when:
103     - not lp_ufw_enable|bool
104     - lp_ufw_debug|bool
105   tags: lp_ufw_service
106
107 # EOF
108 ...

```

### 3.1.50 users.yml

Synopsis: Configure users.

Description of the task.

[users.yml]

```

1 ---
2
3 - name: "users: Debug"
4   vars:
5     msg: |
6       lp_users
7       {{ lp_users|default(['UNDEFINED'])|to_nice_yaml }}
8       lp_users_groups
9       {{ lp_users_groups|default(['UNDEFINED'])|to_nice_yaml }}
10    debug:
11      msg: "{{ msg.split('\n')[:-1] }}"
12    when: lp_users_debug|bool
13    tags: lp_users_debug
14
15 - name: "users: Manage user accounts"
16   user:
17     name: "{{ item.name }}"
18     authorization: "{{ item.authorization|default(omit) }}"
19     comment: "{{ item.comment|default(omit) }}"
20     create_home: "{{ item.create_home|default(omit) }}"
21     expires: "{{ item.expires|default(omit) }}"
22     force: "{{ item.force|default(omit) }}"
23     generate_ssh_key: "{{ item.generate_ssh_key|default(omit) }}"
24     group: "{{ item.group|default(omit) }}"
25     hidden: "{{ item.hidden|default(omit) }}"
26     home: "{{ item.home|default(omit) }}"
27     local: "{{ item.local|default(omit) }}"
28     login_class: "{{ item.login_class|default(omit) }}"
29     move_home: "{{ item.move_home|default(omit) }}"
30     non_unique: "{{ item.non_unique|default(omit) }}"
31     password: "{{ item.password|default(omit) }}"
32     password_lock: "{{ item.password_lock|default(omit) }}"
33     profile: "{{ item.profile|default(omit) }}"
34     remove: "{{ item.remove|default(omit) }}"
35     role: "{{ item.role|default(omit) }}"
36     seuser: "{{ item.seuser|default(omit) }}"
37     shell: "{{ item.shell|default(omit) }}"
38     skeleton: "{{ item.skeleton|default(omit) }}"
39     ssh_key_bits: "{{ item.ssh_key_bits|default(omit) }}"
40     ssh_key_comment: "{{ item.ssh_key_comment|default(omit) }}"
41     ssh_key_file: "{{ item.ssh_key_file|default(omit) }}"
42     ssh_key_passphrase: "{{ item.ssh_key_passphrase|default(omit) }}"
43     ssh_key_type: "{{ item.ssh_key_type|default(omit) }}"
44     state: "{{ item.state|default(omit) }}"
45     system: "{{ item.system|default(omit) }}"
46     uid: "{{ item.uid|default(omit) }}"
47     update_password: "{{ item.update_password|default(omit) }}"
48   loop: "{{ lp_users|default([]) }}"
49   loop_control:
50     label: "{{ item.name }}"
51   tags: lp_users_accounts

```

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```

52
53 - name: "users: Add users to additional groups"
54   user:
55     name: "{{ item.name }}"
56     groups: "{{ item.groups }}"
57     append: "{{ item.append|default(true) }}"
58     loop: "{{ lp_users_groups|default([]) }}"
59     tags: lp_users_groups
60
61 # EOF
62 ...

```

### 3.1.51 vars.yml

Synopsis: Configure vars.

Description of the task.

[vars.yml]

```

1 ---
2
3 - name: "vars: Include default vars for
4     [{{ ansible_os_family }},
5     {{ ansible_distribution }},
6     {{ ansible_distribution_release }}]"
7   include_vars: "{{ lookup('first_found', params) }}"
8   register: result
9   vars:
10     params:
11       files:
12         - "{{ ansible_distribution }}-{{ ansible_distribution_release }}.yaml"
13         - "{{ ansible_distribution }}.yaml"
14         - "{{ ansible_os_family }}.yaml"
15         - defaults.yaml
16         - default.yaml
17       paths:
18         - "{{ role_path }}/vars/defaults"
19
20 - name: "vars: Debug include default vars from"
21   debug:
22     var: result.ansible_included_var_files
23   when: lp_debug|bool
24
25 - name: "vars: Include default vars for various flavors"
26   when: lp_flavors_enable|bool
27   include_tasks: sub/vars-flavors.yaml
28
29 - name: "vars: Include custom vars for
30     [{{ ansible_os_family }},
31     {{ ansible_distribution }},
32     {{ ansible_distribution_release }}]"
33   register: result
34   include_vars: "{{ lookup('first_found', params) }}"
35   vars:
36     params:

```

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```

37     files:
38         - "{{ ansible_distribution }}-{{ ansible_distribution_release }}.yaml"
39         - "{{ ansible_distribution }}.yaml"
40         - "{{ ansible_os_family }}.yaml"
41         - defaults.yaml
42         - default.yaml
43     paths:
44         - "{{ role_path }}/vars"
45
46 - name: "vars: Debug include custom vars from"
47   debug:
48     var: result.ansible_included_var_files
49     when: lp_debug|bool
50
51 # EOF
52 ...

```

### 3.1.52 virtualbox.yml

Synopsis: Configure virtualbox.

Description of the task.

[virtualbox.yml]

```

1 ---
2 # linux-postinstall virtualbox
3
4 - name: "virtualbox: Debug"
5   vars:
6     msg: |
7       ansible_lsb.description [{{ ansible_lsb.codename }}]
8       lp_virtualbox [{{ lp_virtualbox }}]
9       lp_virtualbox_ignore_errors [{{ lp_virtualbox_ignore_errors }}]
10      lp_virtualbox_keys [{{ lp_virtualbox_keys }}]
11      lp_virtualbox_repos [{{ lp_virtualbox_repos }}]
12      lp_virtualbox_install
13      {{ lp_virtualbox_install|to_nice_yaml }}
14      lp_virtualbox_services
15      {{ lp_virtualbox_services|to_nice_yaml }}
16   debug:
17     msg: "{{ msg.split('\n')[:-1] }}"
18     when: lp_virtualbox_debug|bool
19     tags: lp_virtualbox_debug
20
21 # TODO: assert lp_virtualbox_modules are loaded
22 #       when: lp_virtualbox|bool
23
24 - name: "virtualbox: Add signing key of VirtualBox"
25   apt_key:
26     url: "{{ item }}"
27     state: present
28   loop: "{{ lp_virtualbox_keys }}"
29   register: result
30   retries: "{{ lp_install_retries }}"
31   until: result is succeeded

```

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```

32  delay: "{{ lp_install_delay }}"
33  ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
34  tags: lp_virtualbox_keys
35
36  - name: "virtualbox: Add repository of VirtualBox"
37    apt_repository:
38      repo: "{{ item }}"
39      state: present
40    loop: "{{ lp_virtualbox_repos }}"
41    ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
42    tags: lp_virtualbox_repos
43
44  - name: "virtualbox: Install VirtualBox packages"
45    include_tasks: fn/install-package.yml
46    loop: "{{ lp_virtualbox_packages }}"
47    ignore_errors: "{{ lp_virtualbox_ignore_errors }}"
48    tags: lp_virtualbox_pkg
49
50  - name: "virtualbox: Enable and start services"
51    service:
52      name: "{{ item }}"
53      state: started
54      enabled: true
55    loop: "{{ lp_virtualbox_services }}"
56    when: lp_virtualbox_enable|bool
57    tags: lp_virtualbox_services
58
59  - name: "virtualbox: Disable and stop services"
60    service:
61      name: "{{ item }}"
62      state: stopped
63      enabled: false
64    loop: "{{ lp_virtualbox_services }}"
65    when: not lp_virtualbox_enable|bool
66    tags: lp_virtualbox_services
67
68  # EOF
69  ...

```

### 3.1.53 wpagui.yml

Synopsis: Configure wpagui.

Description of the task.

[wpagui.yml]

```

1  ---
2  # linux-postinstall wpa_gui
3  # Install wpa_gui and disable NetworkManager
4
5  - name: "wpagui: Debug"
6    vars:
7      msg: |
8        lp_wpagui_packages
9        {{ lp_wpagui_packages|to_nice_yaml }}

```

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```

10     lp_wpagui_systemd
11     {{ lp_wpagui_systemd|to_nice_yaml }}
12     lp_wpagui_service
13     {{ lp_wpagui_service|to_nice_yaml }}
14     lp_wpagui_service_mask
15     {{ lp_wpagui_service_mask|to_nice_yaml }}
16 debug:
17     msg: "{{ msg.split('\n')[:-1] }}"
18 when: lp_wpagui_debug|bool
19 tags: lp_wpagui_debug
20
21 - name: "wpagui: Install packages"
22   include_tasks: fn/install-package.yml
23   loop: "{{ lp_wpagui_packages }}"
24   tags: lp_wpagui_packages
25
26 - name: "wpagui: Disable NM /etc/init/network-manager.override"
27   template:
28     src: network-manager-override.j2
29     dest: /etc/init/network-manager.override
30     owner: root
31     group: root
32     mode: "0644"
33   tags: lp_wpagui_disableNM
34
35 - name: "wpagui: Configure managed=false
36     in /etc/NetworkManager/NetworkManager.conf"
37   lineinfile:
38     dest: /etc/NetworkManager/NetworkManager.conf
39     regexp: "^\\s*managed\\s*=\\s*(.*)$"
40     line: "managed=false"
41   tags: lp_wpagui_disableNM
42
43 # NetworkManager.service will be stopped and disabled in the next task
44 # - name: "wpagui: Stop and disable NM"
45 #   systemd:
46 #     name: "{{ item }}"
47 #     state: stopped
48 #     enabled: false
49 #   loop: "{{ lp_wpagui_systemd }}"
50 #   tags: lp_wpagui_disableNM
51
52 - name: "wpagui: Stop and disable all NM services"
53   service:
54     name: "{{ item }}"
55     state: stopped
56     enabled: false
57   loop: "{{ lp_wpagui_service }}"
58   tags: lp_wpagui_disableNM
59
60 - name: "wpagui: Mask NM services"
61   command: "systemctl mask {{ item }}"
62   args:
63     warn: false
64   loop: "{{ lp_wpagui_service_mask }}"
65   changed_when: false
66   tags: lp_wpagui_mask_NM

```

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```

67 #
68 # False Positives: Skipping Rules
69 # https://github.com/ansible/ansible-lint#false-positives-skipping-rules
70 # noqa 303 does not work
71 #
72 # ansible-lint "systemctl used in place of systemd module" No
73 # systemctl / systemd module. #48848
74 # https://github.com/ansible/ansible/issues/48848
75
76 # EOF
77 ...

```

### 3.1.54 wpasupplicant.yml

Synopsis: Configure wpasupplicant.

Description of the task.

[wpasupplicant.yml]

```

1 ---
2
3 - name: "wpasupplicant: Debug"
4   vars:
5     msg: |
6       lp_package_state [{{ lp_package_state }}]
7       lp_wpasupplicant_packages
8       {{ lp_wpasupplicant_packages|to_nice_yaml }}
9       lp_wpasupplicant_conf_only [{{ lp_wpasupplicant_conf_only }}]
10      lp_wpasupplicant_conf_dir [{{ lp_wpasupplicant_conf_dir }}]
11      lp_wpasupplicant_conf_file [{{ lp_wpasupplicant_conf_file }}]
12      lp_wpasupplicant_conf_owner [{{ lp_wpasupplicant_conf_owner }}]
13      lp_wpasupplicant_conf_group [{{ lp_wpasupplicant_conf_group }}]
14      lp_wpasupplicant_conf_mode [{{ lp_wpasupplicant_conf_mode }}]
15      lp_wpasupplicant_conf_ctrl_interface
16      [{{ lp_wpasupplicant_conf_ctrl_interface }}]
17      lp_wpasupplicant_conf_global
18      {{ lp_wpasupplicant_conf_global|to_yaml }}
19      lp_wpa_action_script [{{ lp_wpa_action_script }}]
20      lp_wpa_action_script_dir [{{ lp_wpa_action_script_dir }}]
21      lp_wpa_action_script_file [{{ lp_wpa_action_script_file }}]
22      lp_wpa_action_script_owner [{{ lp_wpa_action_script_owner }}]
23      lp_wpa_action_script_group [{{ lp_wpa_action_script_group }}]
24      lp_wpa_action_script_mode [{{ lp_wpa_action_script_mode }}]
25      lp_wpa_action_script_dhclient [{{ lp_wpa_action_script_dhclient }}]
26      lp_wpa_action_script_pidfile [{{ lp_wpa_action_script_pidfile }}]
27      lp_wpa_action_script_options_connect [{{ lp_wpa_action_script_options_connect }}]
28      lp_wpa_action_script_options_disconnect [{{ lp_wpa_action_script_options_
29      disconnect }}]
30      lp_wpa_action_script_logfile [{{ lp_wpa_action_script_logfile }}]
31
32      {% if lp_wpasupplicant_debug_classified|bool %}
33      lp_wpasupplicant_conf
34      {{ lp_wpasupplicant_conf|to_yaml }}
35      {% endif %}

```

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```

35  debug:
36    msg: "{{ msg.split('\n')[:-1] }}"
37  when: lp_wpasupplicant_debug|bool
38  tags: lp_wpasupplicant_debug
39
40  - name: "wpasupplicant: Install packages"
41    include_tasks: fn/install-package.yml
42    loop: "{{ lp_wpasupplicant_packages }}"
43    tags: lp_wpasupplicant_packages
44
45  - name: "wpasupplicant: Configure {{ lp_wpasupplicant_conf_dir }}/{{
46    lp_wpasupplicant_conf_file }}.DEV"
47    template:
48      src: wpa_supplicant.conf.j2
49      dest: "{{ lp_wpasupplicant_conf_dir }}/{{
50        lp_wpasupplicant_conf_file }}.{{
51        item.dev }}"
52      owner: "{{ lp_wpasupplicant_conf_owner }}"
53      group: "{{ lp_wpasupplicant_conf_group }}"
54      mode: "{{ lp_wpasupplicant_conf_mode }}"
55      backup: "{{ lp_backup_conf }}"
56      register: lp_wpasupplicant_conf_changes
57      notify: reconfigure wpa_supplicant
58      loop: "{{ lp_wpasupplicant_conf }}"
59      no_log: "{{ not lp_wpasupplicant_debug_classified }}"
60      tags: lp_wpasupplicant_conf
61
62  - name: "wpasupplicant: Debug: registered lp_wpasupplicant_conf_changes"
63    debug:
64      var: lp_wpasupplicant_conf_changes
65    when: lp_wpasupplicant_debug_classified|bool
66
67  # - name: "wpasupplicant: Debug: wpa_cli reconfigure commands"
68  #   debug:
69  #     msg: >
70  #       'sh -c "[ -S {{ lp_wpasupplicant_conf_ctrl_interface }}/\
71  #         {{ item.item.dev }} ] &&
72  #         wpa_cli -p {{ lp_wpasupplicant_conf_ctrl_interface }} \
73  #           -i {{ item.item.dev }} reconfigure"'
74  #   loop: "{{ lp_wpasupplicant_conf_changes.results }}"
75  #   when:
76  #     - item.changed
77  #     - lp_wpasupplicant_debug
78
79  - name: "wpasupplicant: Create dir {{ lp_wpa_action_script_dir }}"
80    file:
81      state: directory
82      path: "{{ lp_wpa_action_script_dir }}"
83      owner: "{{ lp_wpa_action_script_owner }}"
84      group: "{{ lp_wpa_action_script_group }}"
85    when: lp_wpa_action_script|bool
86    tags: lp_wpa_action_script_dir
87
88  - name: "wpasupplicant: Create script {{ lp_wpa_action_script_file }}"
89    template:
90      src: wpa_action.sh.j2
91      dest: "{{ lp_wpa_action_script_file }}"

```

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```

92     owner: "{{ lp_wpa_action_script_owner }}"
93     group: "{{ lp_wpa_action_script_group }}"
94     mode: "{{ lp_wpa_action_script_mode }}"
95     backup: "{{ lp_backup_conf }}"
96     when: lp_wpa_action_script|bool
97     tags: lp_wpa_action_script_file
98
99 # EOF
100 ...

```

### 3.1.55 xen.yml

Synopsis: Configure xen.

Description of the task.

[xen.yml]

```

1  ---
2  # linux-postinstall xen
3
4  - name: "xen: Debug"
5    vars:
6      msg: |
7        lp_xen_packages
8        {{ lp_xen_packages|to_nice_yaml }}
9        lp_xen_dom0_mem
10       {{ lp_xen_dom0_mem|to_nice_yaml }}
11       lp_xen_default_grub_conf
12       {{ lp_xen_default_grub_conf|to_nice_yaml }}
13       lp_xen_global
14       {{ lp_xen_global|to_nice_yaml }}
15    debug:
16      msg: "{{ msg.split('\n')[:-1] }}"
17    when: lp_xen_debug|bool
18    tags: lp_xen_debug
19
20  - name: "xen: Install packages"
21    include_tasks: fn/install-package.yml
22    loop: "{{ lp_xen_packages }}"
23    tags: lp_xen_packages
24
25  - name: "xen: Configure /etc/default/grub"
26    lineinfile:
27      dest: /etc/default/grub
28      regexp: "^\\s*{{ item.key }}\\s*=\\s*(.*)$"
29      line: "{{ item.key }}={{ item.value }}"
30      backup: "{{ lp_backup_conf }}"
31      loop: "{{ lp_xen_default_grub_conf }}"
32      notify: update grub
33      tags: lp_xen_default_grub
34
35  - name: "xen: Configure /etc/xen/xl.conf"
36    lineinfile:
37      dest: /etc/xen/xl.conf
38      regexp: "^\\s*{{ item.var }}\\s*=\\s*(.*)$"

```

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```

39     line: "{{ item.var }}={{ item.value }}"
40     create: true
41     backup: "{{ lp_backup_conf }}"
42     loop: "{{ lp_xen_global }}"
43     tags: lp_xen_global
44
45 # EOF
46 ...

```

### 3.1.56 xorg.yml

Synopsis: Configure xorg.

Description of the task.

[xorg.yml]

```

1 ---
2
3 - name: "xorg: Debug"
4   vars:
5     msg: |
6       lp_xorg_conf
7       {{ lp_xorg_conf|to_nice_yaml }}
8   debug:
9     msg: "{{ msg.split('\n')[:-1] }}"
10  when: lp_xorg_debug|bool
11  tags: lp_xorg_debug
12
13 - name: "xorg: Configure {{ lp_xorg_conf_dir }}"
14   template:
15     src: xorg.conf.j2
16     dest: "{{ lp_xorg_conf_dir }}/{{ item.file }}"
17     backup: "{{ lp_backup_conf }}"
18     loop: "{{ lp_xorg_conf }}"
19     tags: lp_xorg_conf
20
21 # EOF
22 ...

```

### 3.1.57 zeitgeist.yml

Synopsis: Configure zeitgeist.

Description of the task.

[zeitgeist.yml]

```

1 ---
2 # linux-postinstall zeitgeist
3
4 # One-way atm
5 - name: Remove zeitgeist
6   apt:
7     state: absent

```

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```

8     name: zeitgeist
9     purge: true
10    when:
11      - not lp_zeitgeist|bool
12      - ansible_os_family == "Debian"
13
14  - name: Remove zeitgeist-*
15    apt:
16      state: absent
17      name: zeitgeist-*
18      purge: true
19    when:
20      - not lp_zeitgeist|bool
21      - ansible_os_family == "Debian"
22
23  # - name: Disable zeitgeist
24  #   service:
25  #     name: zeitgeist
26  #     state: stopped
27  #     enabled: no
28  #   when: not lp_zeitgeist
29  # "Could not find the requested service zeitgeist"
30
31  # for i in zeitgeist-fts zeitgeist; do
32  #   systemctl --user disable $i;
33  #   systemctl --user stop $i;
34  #   systemctl --user mask $i;
35  # done
36
37  # EOF
38  ...

```

### 3.1.58 zfs.yml

Synopsis: Configure zfs.

Description of the task.

[zfs.yml]

```

1  ---
2
3  - name: "zfs: Debug"
4    vars:
5      msg: |
6        lp_zfs_install [{{ lp_zfs_install }}]
7        lp_zfs_packages
8        {{ lp_zfs_packages|to_nice_yaml }}
9        lp_zfs_services
10       {{ lp_zfs_services|default([])|to_yaml }}
11       lp_zfs_manage
12       {{ lp_zfs_manage|to_yaml }}
13       lp_zfs_mountpoints
14       {{ lp_zfs_mountpoints|to_yaml }}
15    debug:
16      msg: "{{ msg.split('\n')[:-1] }}"

```

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```

17  when: lp_zfs_debug|bool
18  tags: lp_zfs_debug
19
20  - name: "zfs: Install packages"
21    include_tasks: fn/install-package.yml
22    loop: "{{ lp_zfs_packages }}"
23    when: lp_zfs_install|bool
24    tags: lp_zfs_packages
25
26  - name: "zfs: Manage zfs services"
27    systemd:
28      name: "{{ item.name }}"
29      enabled: "{{ item.enabled|default(true) }}"
30      state: "{{ item.state|default('started') }}"
31    loop: "{{ lp_zfs_services|default([]) }}"
32    tags: lp_zfs_services
33
34  - name: "zfs: Manage zfs"
35    zfs:
36      name: "{{ item.name }}"
37      state: "{{ item.state }}"
38      origin: "{{ item.origin|default(omit) }}"
39      extra_zfs_properties: "{{ item.extra_zfs_properties|default(omit) }}"
40    loop: "{{ lp_zfs_manage }}"
41    tags: lp_zfs_manage
42
43  - name: "zfs: Set mode and ownership of zfs mountpoints"
44    file:
45      state: directory
46      path: "{{ item.mountpoint }}"
47      owner: "{{ item.owner|default(omit) }}"
48      group: "{{ item.group|default(omit) }}"
49      mode: "{{ item.mode|default(omit) }}"
50    loop: "{{ lp_zfs_mountpoints }}"
51    tags: lp_zfs_mountpoints
52
53  # EOF
54  ...

```



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## INDICES AND TABLES

- `genindex`
- `modindex`
- `search`



## Symbols

`__main__`  
module, 6, 9

## M

module  
    `__main__`, 6, 9  
    search path, 6, 9  
    sys, 6, 9

## P

password  
    passwordstore, 6, 9  
path  
    module search, 6, 9

## S

search  
    path, module, 6, 9  
sys  
    module, 6, 9