SyncopatedIaC

The User Manual

Contents

1 roles

the roles and what they do...

2 the base role

this is where all the magic happens

3 Introduction

The "SyncopatedIac" project is an Infrastructure as Code (IaC) solution that uses Ansible to config-
ure and maintain Linux-based hosts for an Audio Production Studio. The project consists of a set of

roles that define the desired state of the infrastructure, including the software packages, services, and configurations required for an audio production environment.

4 variables

4.0.1 group_vars

all.yml - variables applied to all hosts

server.yml - variables applied to hosts in the server group

workstation.yml - variables applied to hosts in workstation group

4.0.2 host_vars

variables for individual hosts

4.0.3 vars

vars/{{ distro }}/packages.yml - package lists

var/stheme.yml - theme variables

4.0.4 Role Variables

defaults/main.yml

- These variables are intended to provide default values that can be overridden by the user or in other levels of precedence.

- Role defaults are automatically loaded by Ansible, and their values serve as the default configuration for the role.

- If a variable is not defined elsewhere in the playbook, Ansible will use the value specified in the role defaults.

vars/main.yml

- These variables are meant to be set by the user or in the playbook to customize the behavior of the role.

- Role variables take precedence over role defaults. If the same variable is defined in both role defaults and role variables, the value from role variables will be used.

- Role variables allow users to customize the role without modifying the role's default behavior.

5 Environment Profile

5.1 global envrionment

- `/etc/profile` initializes variables for login shells *only*.

- -

Templates that comprise a user profile are used in several roles.

5.2 bash

```
├── .bash_logout
└── .bashrc
```

5.3 base

```
[ base](roles/base/templates/etc/skel)
├── .aliases.j2
├── .config
│   └── environment.d
│       └── cachyos.conf.j2
└── .profile.j2
```

5.4 desktop

```
roles/desktop/templates/etc/skel
└── .config
    ├── dunst
```

```
│       └── dunstrc.j2
├── picom
│   └── picom.conf.j2
├── rofi
│   ├── colors
│   │   ├── adapta.rasi.j2
│   │   ├── arc.rasi.j2
│   │   ├── black.rasi.j2
│   │   ├── catppuccin.rasi.j2
│   │   ├── cyberpunk.rasi.j2
│   │   ├── dracula.rasi.j2
│   │   ├── everforest.rasi.j2
│   │   ├── gruvbox.rasi.j2
│   │   ├── lovelace.rasi.j2
│   │   ├── navy.rasi.j2
│   │   ├── nord.rasi.j2
│   │   ├── onedark.rasi.j2
│   │   ├── paper.rasi.j2
│   │   ├── solarized.rasi.j2
│   │   ├── tokyonight.rasi.j2
│   │   └── yousai.rasi.j2
│   ├── config.rasi.j2
│   ├── file-browser
│   ├── gruvbox-common.rasi.j2
│   ├── gruvbox-dark-hard.rasi.j2
│   ├── launchers
│   │   ├── type-1
│   │   │   ├── shared
│   │   │   │   ├── colors.rasi.j2
│   │   │   │   └── fonts.rasi.j2
│   │   │   ├── style-10.rasi.j2
│   │   │   └── style-8.rasi.j2
│   │   └── type-4
│   │       ├── launcher.sh.j2
│   │       ├── shared
│   │       │   ├── colors.rasi.j2
│   │       │   └── fonts.rasi.j2
│   │       └── style-6.rasi.j2
```

```
    │   └── scripts
    │       ├── launcher_main.sh.j2
    │       ├── launcher_t1.sh.j2
    │       └── launcher_t4.sh.j2
    ├── swhkd
    │   └── swhkdrc.j2
    └── sxhkd
        └── sxhkdrc.j2
```

5.5 i3

```
roles/i3/templates/etc/skel
└── .config
    ├── dunst
    │   └── dunstrc.j2
    ├── i3
    │   ├── appearance.j2
    │   ├── autostart.j2
    │   ├── config.j2
    │   ├── keybindings.j2
    │   ├── modes
    │   │   └── resize.j2
    │   ├── window_assignments.j2
    │   └── window_behavior.j2
    ├── i3status-rust
    │   ├── config.toml.j2
    │   └── themes
    │       └── syncopated.toml.j2
    └── picom
        └── picom.conf.j2
```

5.6 terminal

```
roles/terminal/templates/etc/skel
└── .config
    ├── alacritty
    │   └── alacritty.yml.j2
```

```
├── htop
│   └── htoprc.j2
├── kitty
│   ├── cpu.conf.j2
│   ├── current-theme.conf.j2
│   ├── kitty.conf.j2
│   ├── open-actions.conf.j2
│   └── start.conf.j2
└── lnav
    └── checklog.lnav.j2
```

5.7 theme

```
roles/theme/templates/etc/skel
├── .config
│   ├── gtk-3.0
│   │   ├── bookmarks.j2
│   │   ├── gtk.css.j2
│   │   └── settings.ini.j2
│   ├── gtk-4.0
│   │   └── settings.ini.j2
│   ├── Kvantum
│   │   └── kvantum.kvconfig.j2
│   ├── qt5ct
│   │   ├── colors
│   │   │   └── syncopated.conf.j2
│   │   └── qt5ct.conf.j2
│   └── qt6ct
│       ├── colors
│       │   └── syncopated.conf.j2
│       └── qt6ct.conf.j2
└── .gtkrc-2.0.j2
```

5.8 xorg

```
roles/xorg/templates/etc/skel
├── .xinitrc.j2
```

```
├── .xprofile.j2
├── .Xresources.j2
└── .xserverrc.j2
```

5.9 zsh

```
roles/zsh/templates/etc/skel
├── .zprofile.j2
├── .zshenv.j2
└── .zshrc.j2
```