

Customizing GNOME with NixOS

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Aspects of customizing GNOME

- GNOME applications (not) to install
- GNOME extensions
- Configuration of applications and extensions
 - By setting values in dconf
 - requires home-manager

GNOME applications (not) to install

```
environment.gnome.excludePackages =  
  (with pkgs; [  
    gnome-photos  
    gnome-tour  
  ])  
++ (with pkgs.gnome; [  
  cheese # webcam tool  
  gnome-music  
  gedit # text editor  
  epiphany # web browser  
  geary # email reader  
  gnome-characters  
  tali # poker game  
  iagno # go game  
  hitori # sudoku game  
  atomix # puzzle game  
  yelp # Help view  
  gnome-contacts  
  gnome-initial-setup  
]);
```

GNOME extensions

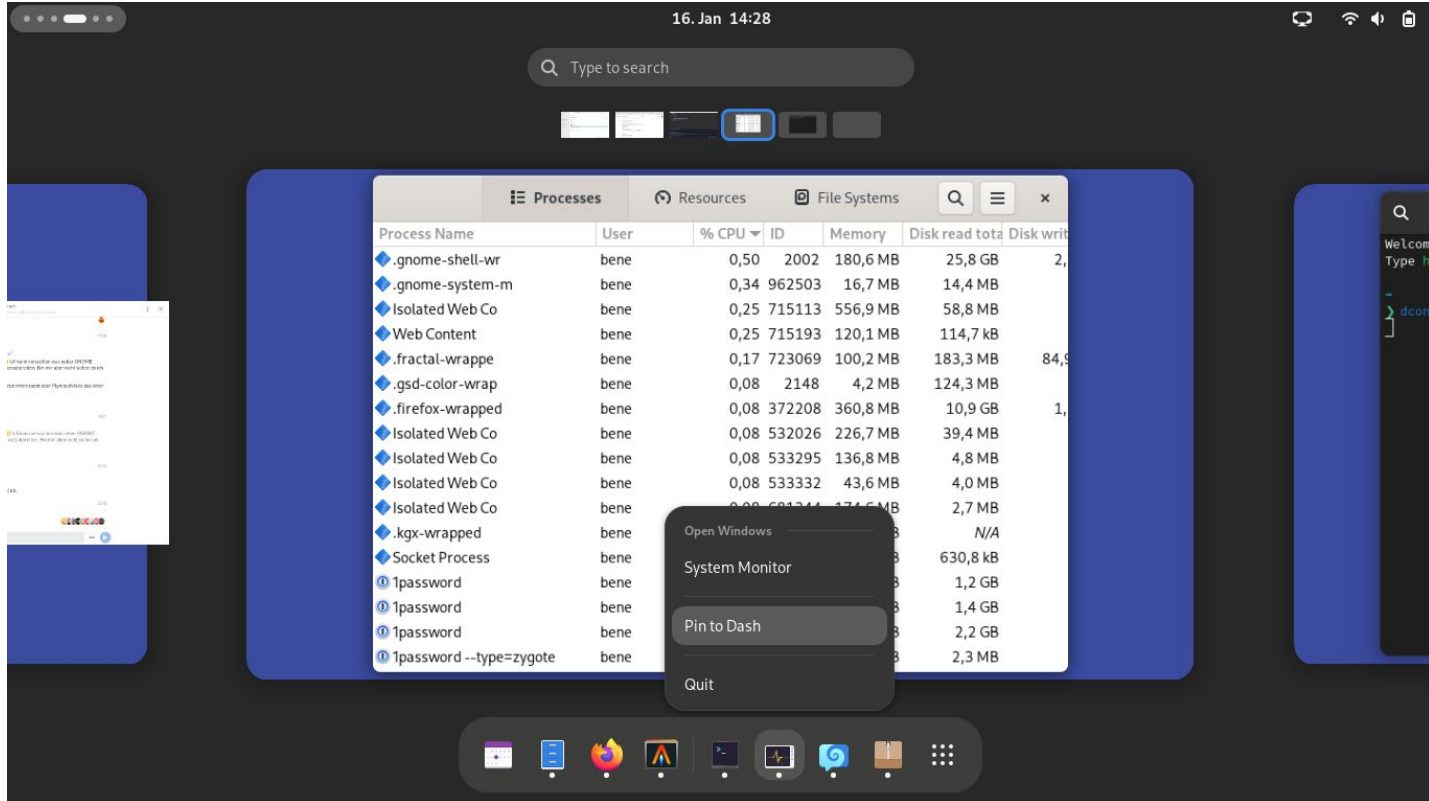
```
environment.systemPackages = with pkgs; [  
  gnomeExtensions.custom-hot-corners-extended  
  gnomeExtensions.night-theme-switcher  
  xsel # Access to X server clipboard, required for helix  
];
```

- Installs extensions system-wide
- Does not enable extensions
- Enablement is stored in dconf, thus must be managed using home-manager

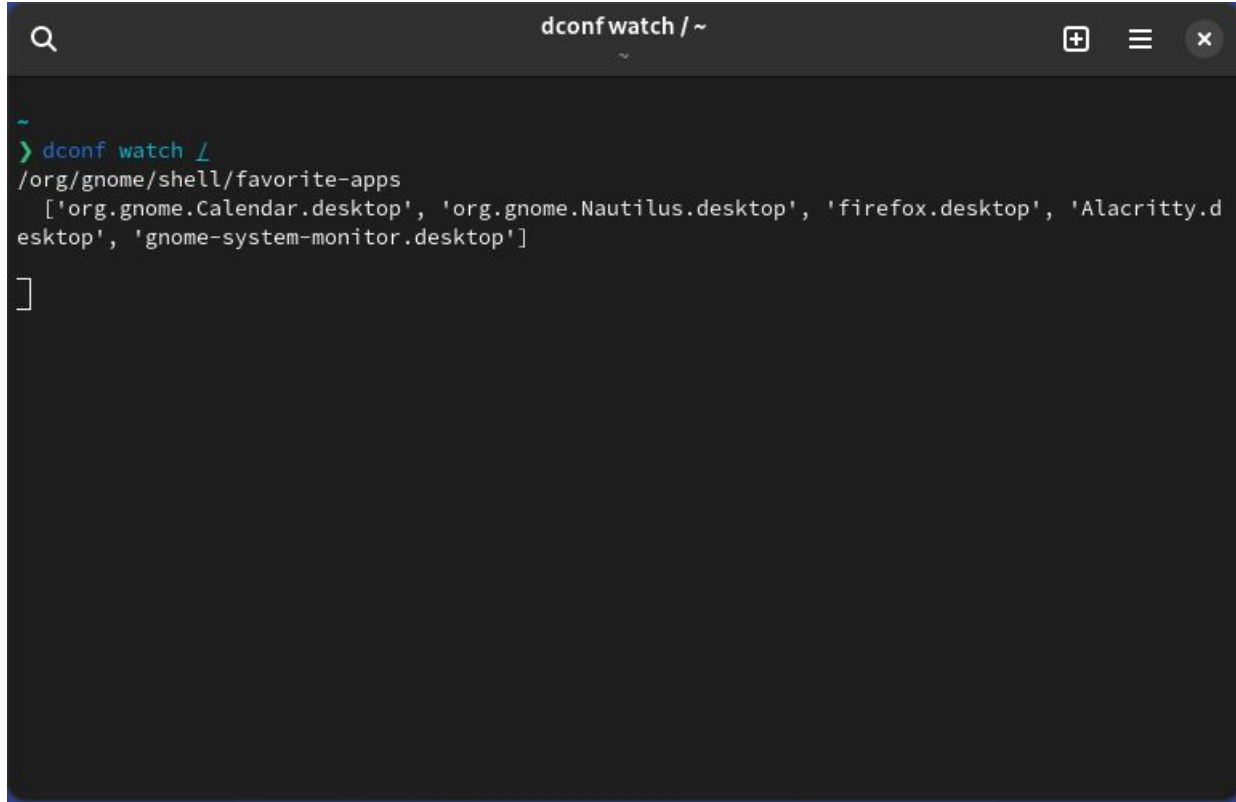
Configuration of applications and extensions

- GNOME uses dconf to store application settings
- dconf tool can be used to inspect the store
- `programs.dconf.enable = true`

Configuration of applications and extensions



Configuration of applications and extensions

A terminal window titled 'dconf watch / ~' with a search icon on the left and window control icons on the right. The terminal shows the command 'dconf watch /' being executed, followed by the output of the 'dconf watch' command for the path '/org/gnome/shell/favorite-apps'. The output is a JSON array containing five desktop application IDs: 'org.gnome.Calendar.desktop', 'org.gnome.Nautilus.desktop', 'firefox.desktop', 'Alacritty.desktop', and 'gnome-system-monitor.desktop'.

```
~  
> dconf watch /  
/org/gnome/shell/favorite-apps  
  ['org.gnome.Calendar.desktop', 'org.gnome.Nautilus.desktop', 'firefox.desktop', 'Alacritty.d  
esktop', 'gnome-system-monitor.desktop']  
]
```

Configuration of applications and extensions

```
{pkgs, ...}: {  
  dconf.settings = {  
    "org/gnome/shell" = {  
      favorite-apps = [  
        "org.gnome.Calendar.desktop"  
        "org.gnome.Nautilus.desktop"  
        "firefox.desktop"  
        "Alacritty.desktop"  
      ];  
  
      disable-user-extensions = false;  
      enabled-extensions = [  
        "custom-hot-corners-extended@G-dH.github.com"  
        "nightthemeswitcher@romainvigier.fr"  
      ];  
    };  
    # required by night theme switcher to determine time for sunrise and sunset  
    "org/gnome/system/location" = {  
      enabled = true;  
    };  
    "org/gnome/shell/extensions/custom-hot-corners-extended/monitor-0-bottom-left-0" = {  
      action = "lock-screen";  
    };  
  };  
}
```


Links

- <https://nixos.org/manual/nixos/stable/#chap-gnome>
- <https://nixos.wiki/wiki/GNOME>
- ★ <https://hoverbear.org/blog/declarative-gnome-configuration-in-nixos/>
- My nix configuration
 - [GNOME desktop configuration](#)
 - [home-manager dconf configuration](#)