

NixOS

Install in-place

1. <https://github.com/elitak/nixos-infect>
2. https://nixos.wiki/wiki/Change_root

Infect system using nixos-infect

Ensure you're root when executing the commands (`sudo -i`)



If any profile is installed for root (re)move the existing profile at `/nix/var/nix/profiles/per-user/root` before infecting.

```
touch /etc/ssh/ssh_host_placeholder_key
curl https://raw.githubusercontent.com/elitak/nixos-infect/master/nixos-infect | NIX_CHANNEL=nixos-24.11 NO_REBOOT=1 bash -x
```

Apply configuration

Check-out your desired configuration into `/etc/nixos` and adjust it.

```
git clone <NIXOS-GIT-REPOSITORY> /etc/nixos
/nix/var/nix/profiles/per-user/root/profile/bin/nix-shell \
  -I nixpkgs=$(realpath $HOME/.nix-defexpr/channels/nixos) \
  -p nixos-install-tools \
  --run 'nixos-generate-config --show-hardware-config' \
  > /etc/nixos/hardware-configuration.nix

# If your configuration is flake-based
/nix/var/nix/profiles/per-user/root/profile/bin/nix-shell \
  -I nixpkgs=$(realpath $HOME/.nix-defexpr/channels/nixos) \
  -p nixos-rebuild \
  --run 'nixos-rebuild boot --flake /etc/nixos'

# For legacy configurations
/nix/var/nix/profiles/per-user/root/profile/bin/nix-shell \
  -I nixpkgs=$(realpath $HOME/.nix-defexpr/channels/nixos) \
  -p nixos-rebuild \
  --run 'nixos-rebuild boot -I nixpkgs=$(realpath $HOME/.nix-defexpr/channels/nixos) -I nixos-config=/etc/nixos/configuration.nix'
```

Add directories and files you want to keep to `/etc/NIXOS_LUSTRATE`. These directories and files will not be moved into `/old-root` upon replacement.

Also ensure that if your primary partition is an encrypted partition to add relevant configuration to your `hardware-configuration.nix`.

Rescue

Should the system not boot you can use another NixOS system (e.g. from another partition or live CD) to adjust system configuration for example LUKS partitions.

When second NixOS system is booted mount your system into `/mnt` including additional partitions like boot partition (into their respective directories). Afterwards invoke `nixos-enter` to enter a shell simulating the future NixOS system.

```
mount /dev/disk/by-id/xxxx-part1 /mnt
mount /dev/disk/by-id/xxxx-part2 /mnt/boot
nixos-enter
```

Now adjust your configuration to add/support this system and its hardware. Also keep in mind that if you're using LUKS for your primary partition/disk you need to manually add it to the generated hardware configuration to support it.

```
# Adjust files in /etc/nixos to support this system
nixos-generate-config > /etc/nixos/hardware-configuration.nix
```

Now activate the configuration on next boot.

```
nix-env --set \
  -I nixpkgs=$(realpath $HOME/.nix-defexpr/channels/nixos) \
  -f '<nixpkgs/nixos>' \
  -p /nix/var/nix/profiles/system \
  -A system
/nix/var/nix/profiles/system/bin/switch-to-configuration boot
# this might also work instead of the above commands
# nixos-rebuild boot
```

Troubleshooting

System is not lustrated

For some reason a system is not lustrated (NOTE: system must boot via GRUB for `lustrate` to work apparently). If that happens a boot might fail due to `systemd` not finding `default.target`. If that happens a manual lustration might help (= move files manually from root into subfolder).

Apparently `systemd` must also not be enabled in `initrd` for it work.

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