i-e-b / **Readme_NIX_OS.md**   ⋯

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/etc/nixos/configuration.nix

<> **Readme_NIX_OS.md**

My experiments with an XMonad setup in NixOS. This is my work box now, so it pretty much works.

probably needs:

```
# useradd -m iain
# passwd iain ...
# passwd root ...
```

<> **configuration.nix**

```
1    # This is a generated file.  Do not modify!
2    # Make changes to /etc/nixos/configuration.nix instead.
3    { config, pkgs, ... }:
4
5    {
6      require = [
7        ./hardware-configuration.nix
8        <nixos/modules/installer/scan/not-detected.nix>
9        <nixos/modules/programs/virtualbox.nix>
10     ];
11
12     boot.blacklistedKernelModules = [ "snd_pcsp" ];
13     boot.loader.grub.device = "/dev/sdb";  # for 2-disk work machine
14    #boot.loader.grub.device = "/dev/sda"; # for single disk boxes
15
16   # These for Virtual box images only -- use hardware-configuration.nix for real machine
17   # boot.initrd.kernelModules = [ "ata_piix" "ohci_hcd" ];
18   # boot.kernelModules = [ ];
19   # boot.extraModulePackages = [ ];
20
21     environment.systemPackages = with pkgs; [
22       wget vimHugeX sudo
23       manpages
24       gitAndTools.gitFull
25       iptables nmap tcpdump
```

```nix
 26        rxvt_unicode
 27        zlib
 28        bc
 29
 30        # coding junk
 31        gcc
 32        #gcc-wrapper
 33        #gccmakedep
 34
 35        # nix package for nix-shell etc
 36        binutils
 37        nix
 38
 39        haskellPackages.haskellPlatform
 40        #cabal2nix
 41
 42        #ubuntu-font-family
 43        #vista-fonts
 44
 45        # X11 packages
 46        chromium
 47        firefoxWrapper
 48        trayer
 49        # Haskell packages for XMonad
 50        haskellPackages.xmobar
 51        haskellPackages.xmonad
 52        haskellPackages.xmonadContrib
 53        haskellPackages.xmonadExtras
 54
 55        # Font junk
 56        xfontsel
 57        xlsfonts
 58
 59        dmenu
 60        xscreensaver
 61        xclip
 62        xchat
 63        #virtualbox   # This is done with the require reference at the top.
 64      ];
 65
 66  #  nix.maxJobs = 4;
 67      time.timeZone = "Europe/London";
 68
 69      services.openssh.enable = true;
 70
 71      networking.interfaceMonitor.enable = true;
 72      i18n = {
 73        consoleFont = "lat9w-16";
 74        consoleKeyMap = "uk";
 75        defaultLocale = "en_GB.UTF-8";
 76      };
 77
```

```nix
 78      # User account
 79      users.extraGroups.wheel.gid = 0;
 80      users.extraUsers.iain = {
 81        createHome = true;
 82        home = "/home/iain";
 83        description = "Iain Ballard";
 84        extraGroups = [ "wheel" "disk" "vboxusers" "cdrom" ];
 85        isSystemUser = false;
 86        useDefaultShell = true;
 87      };
 88      security.sudo.enable = true;
 89
 90      services.xserver = {
 91        enable = true;
 92        layout = "gb";
 93        windowManager.xmonad.enable = true;
 94        windowManager.default = "xmonad";
 95        desktopManager.xterm.enable = false;
 96        desktopManager.default = "none";
 97        startOpenSSHAgent = true;
 98        displayManager = {
 99          slim = {
100            enable = true;
101            defaultUser = "iain";
102          };
103        };
104        wacom.enable = true;
105      };
106
107      services.printing.enable = true;
108      # Show the manual on virtual console 8 :
109      services.nixosManual.showManual = true;
110
111      fileSystems = [
112        { mountPoint = "/";
113          label = "nixos";
114        }
115      ];
116      swapDevices = [
117        { device = "/dev/disk/by-label/swap"; }
118      ];
```

⟨⟩ nixos_install.md

```
$ fdisk /dev/sdb (or whatever device you want to install on)

$ mkfs.ext4 -L nixos /dev/sdb1 (idem)

$ mkswap -L swap /dev/sdb2 (idem)
```

```
$ mount LABEL=nixos /mnt

$ nixos-option --install
```

- For a basic install: `$ nano /mnt/etc/nixos/configuration.nix` (in particular, set the fileSystems and swapDevices options)
- or, for this set of scripts: `$ wget https://gist.github.com/i-e-b/6320077/raw/ecea4e02867e563406f4238a880783a161bee9ba/configuration.nix > /mnt/etc/nixos/configuration.nix`

```
$ nixos-install

$ reboot
```

startx

```sh
1  #!/bin/sh
2
3  sudo systemctl restart display-manager &
```

xmonad.hs

```haskell
1  -- write to ~/.xmonad/xmonad.hs
2
3  import XMonad
4
5  main = xmonad defaultConfig
6              { modMask = mod4Mask  -- super instead of alt (usually Windows key)
7              , terminal = "urxvt"
8              }
```