# Ubuntu Setup

Настройка Ubuntu OS

## ??????? ??????/??????

### ????????/???????? sudo user

```
sudo useradd -m -s /bin/bash <user>
sudo usermod -aG sudo,adm,systemd-journal <user>
sudo passwd <user>
```

**Удаление user + homedir**

```
sudo pkill -u <user>
sudo userdel -r <user>
sudo visudo  # Удалить строку <user>
```

### ????????? SSH ???????

```
sudo apt install ssh -y
sudo rm /etc/ssh/sshd_config.d/50-cloud-init.conf  # Для облачных образов
```

```
sudo tee /etc/ssh/sshd_config > /dev/null << 'EOF'
TCPKeepAlive yes
ClientAliveInterval 60
ClientAliveCountMax 360
PermitRootLogin prohibit-password
PasswordAuthentication yes
PubkeyAuthentication yes
EOF
```

```
sudo systemctl restart ssh
```

## ????????? ????

### ????? DHCP

```
sudo tee /etc/netplan/01-netcfg.yaml > /dev/null << 'EOF'
# DHCP
network:
  version: 2
  renderer: networkd
  ethernets:
    eth0:
      dhcp4: true
      dhcp4-overrides:
        use-dns: true
        use-domains: true
      dhcp6: false  # Отключить IPv6 если не используется
EOF
```

## ????? Static IP

```
sudo tee /etc/netplan/01-netcfg.yaml > /dev/null << 'EOF'
# Static IP
network:
  version: 2
  renderer: networkd
  ethernets:
    eth0:
      dhcp4: false
      addresses:
        - 192.168.1.10/24
      routes:
        - to: default
          via: 192.168.1.1
      nameservers:
        addresses: [8.8.8.8, 1.1.1.1]
        search: [local]
EOF
```

**Перезапуск сети**

```
sudo netplan apply
sudo systemctl restart systemd-networkd
```

## ?????????? ipv6

### Способ 1 (Рекомендуемый)

```
sudo tee -a /etc/sysctl.conf > /dev/null << 'EOF'
net.ipv6.conf.all.disable_ipv6 = 1
net.ipv6.conf.default.disable_ipv6 = 1
net.ipv6.conf.lo.disable_ipv6 = 1
EOF

sudo sysctl -p
sudo sysctl --system
```

### Способ 2 (Через GRUB)

```
sudo sed -i 's/GRUB_CMDLINE_LINUX=""/GRUB_CMDLINE_LINUX="ipv6.disable=1"/' /etc/default/grub
sudo update-grub
```

```
sudo reboot
```

## ?????? ???????

### Изменение имени сервера

```
sudo hostnamectl set-hostname <name>
```

```
sudo tee -a /etc/hosts > /dev/null << 'EOF'
127.0.0.1       localhost <name>
::1             localhost <name>
EOF
```

### Изменить Приветствие при User Logon

```
sudo chmod -x /etc/update-motd.d/10-help-text

sudo tee /etc/update-motd.d/10-help-text > /dev/null << 'EOF'
#!/bin/sh
# Файл очищен для изменения приветствия
EOF
```

### Тюнинг Приглашения prompt в консоли

```
echo "PS1='\[\033[36m\]\u\[\033[m\]@\[\033[32m\]\h:\[\033[33;1m\]\w\[\033[m\]$ '" >> ~/.bashrc
source ~/.bashrc
```

### Ограничение размера LOGs системы

```
sudo sed -i 's/#SystemMaxUse=/SystemMaxUse=100M/g' /etc/systemd/journald.conf
sudo systemctl restart systemd-journald
sudo journalctl --rotate
```

### Добавление switch языка по Alt+Shift

```
# GNOME
sudo apt install gnome-tweaks -y
gsettings set org.gnome.desktop.input-sources xkb-options "['grp:alt_shift_toggle']"
```

### Установка часового пояса (Москва)

```
sudo timedatectl set-timezone Europe/Moscow
```

### Смена раскладки (Ubuntu 24.04 Gnome)

```
sudo apt install gnome-tweak-tool -y
gsettings set org.gnome.desktop.wm.keybindings switch-input-source "['<Super>space']"
gsettings set org.gnome.desktop.wm.keybindings switch-input-source-backward
"['<Shift><Super>space']"
```

### Ярлык для Desktop OS

```
tee ~/Desktop/myapp.desktop > /dev/null << 'EOF'
[Desktop Entry]
Version=1.0
Name=MyApp
Comment=My Application
Exec=/path/to/script.sh
Icon=/path/to/icon.png
Terminal=false
Type=Application
Categories=Utility;
EOF

chmod +x ~/Desktop/myapp.desktop
```

# ?????????? ???????, ??????

**Установка доп. пакетов**

```
sudo apt update
sudo apt install -y vim tree net-tools mlocate curl wget htop jq
```

## ????????? ???????/??????????

```
tee -a ~/.bashrc << 'EOF'
# ------------------------------------------------------------------------------
# Prompt console
# ------------------------------------------------------------------------------
PS1='\[\033[36m\]\u\[\033[m\]@\[\033[32m\]\h:\[\033[33;1m\]\w\[\033[m\]$ '
# ------------------------------------------------------------------------------
# Bind Aliases
# ------------------------------------------------------------------------------
alias upd='sudo apt update -y && \
sudo apt upgrade -y && \
sudo apt full-upgrade -y && \
sudo apt autoremove -y && \
sudo apt autoclean -y && \
sudo updatedb && \
sudo apt --fix-broken install'

alias hclean='cat /dev/null > ~/.bash_history && history -c'
alias doc='docker ps --all --format "table {{.ID}}\t{{.Ports}}\t{{.Status}}\t{{.Names}}"'
alias ports='sudo netstat -tulpn | grep LISTEN'
# ------------------------------------------------------------------------------
EOF

source ~/.bashrc
```

## ?????????????? ????????? ??? Ubuntu 24.04

```
# Включение автоматических обновлений безопасности
sudo apt install unattended-upgrades -y
sudo dpkg-reconfigure --priority=low unattended-upgrades
```

```
# Настройка временной зоны для журналов
sudo timedatectl set-local-rtc 0
```

```
# Оптимизация SWAP
echo "vm.swappiness=10" | sudo tee -a /etc/sysctl.conf
sudo sysctl -p
```

```
# Настройка лимитов системы
sudo tee -a /etc/security/limits.conf > /dev/null << 'EOF'
* soft nofile 65535
* hard nofile 65535
* soft nproc 65535
* hard nproc 65535
EOF
```

## ????????? fail2ban ??? SSH

```
sudo apt install fail2ban -y

sudo tee /etc/fail2ban/jail.local > /dev/null << 'EOF'
[DEFAULT]
bantime = 3600
findtime = 600
maxretry = 5

[sshd]
enabled = true
port = ssh
filter = sshd
logpath = /var/log/auth.log
maxretry = 3
EOF

sudo systemctl enable fail2ban
sudo systemctl start fail2ban
```

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