

# Princípio de Comunicação de Dados

## Parte 01 – Montando o Ambiente de Trabalho

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# 1. Preparando o Sistema operacional

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## 1.1 Ajustando o sources.list e executando a atualização

---

```
sudo mv /etc/apt/sources.list /etc/apt/sources.list-original
sudo nano /etc/apt/sources.list
```

```
# Mirror C3SL - Ubuntu Bionic - 18.04
deb http://ubuntu.c3sl.ufpr.br/ubuntu/ bionic main restricted universe multiverse
deb http://ubuntu.c3sl.ufpr.br/ubuntu/ bionic-security main restricted universe multiverse
deb http://ubuntu.c3sl.ufpr.br/ubuntu/ bionic-updates main restricted universe multiverse
deb http://ubuntu.c3sl.ufpr.br/ubuntu/ bionic-backports main restricted universe multiverse
deb http://ubuntu.c3sl.ufpr.br/ubuntu/ bionic-proposed main restricted universe multiverse
```

```
sudo apt update
sudo apt full-upgrade
sudo apt autoremove
```

## 1.2 Instalando o Openssh-Server

---

### 1) Atualizando o sistema:

```
$ sudo apt update
$ sudo apt full-upgrade
```

### 2) Instalando o openssh-server:

```
$ sudo apt install openssh-server
```

### 3) Configurando:

```
Port 65222
X11Forwarding yes
PrintMotd yes
```

### 4) Reiniciando o daemon

```
systemctl restart sshd
systemctl status sshd
```

```
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2020-03-26 20:30:25 EDT; 28s ago
     Process: 8628 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
    Main PID: 8629 (sshd)
```

```
Tasks: 1 (limit: 2328)
CGroup: /system.slice/ssh.service
└─8629 /usr/sbin/sshd -D
```

```
Mar 26 20:30:25 osboxes systemd[1]: Starting OpenBSD Secure Shell server...
Mar 26 20:30:25 osboxes sshd[8629]: Server listening on 0.0.0.0 port 65222.
Mar 26 20:30:25 osboxes sshd[8629]: Server listening on :: port 65222.
Mar 26 20:30:25 osboxes systemd[1]: Started OpenBSD Secure Shell server.
```

## 2. Instalando os aplicativos essenciais

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### 2.1 Instalando o Git e o SmartGit

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Instalando o Git

```
sudo apt update && sudo apt install -f
sudo apt install git git-core
```

Instalando o SmartGit

```
sudo apt-get install gdebi -y
sudo mkdir -p /opt/install
cd /opt/install

sudo wget https://www.syntevo.com/downloads/smartgit/smartgit-20_1_1.deb
sudo gdebi smartgit-20_1_1.deb
```

```
Graphical Git client
SmartGit is a Git client. The Git commandline tools are required.
.
SmartGit is free for non-commercial use.
Do you want to install the software package? [y/N]: y
```

### 2.2 Instalando o Atom

---

Instalando no Ubuntu 18.04

```
sudo add-apt-repository ppa:webupd8team/atom && sudo apt update
sudo apt install atom
```

## 2.3 Instalando o Sublime

---

Instalando no Ubuntu 18.04

```
sudo mkdir -p /opt/install
cd /opt/install

echo "deb https://download.sublimetext.com/ apt/stable/" | sudo \
tee /etc/apt/sources.list.d/sublime-text.list

wget -qO - https://download.sublimetext.com/sublimehq-pub.gpg | sudo \
apt-key add -

sudo apt update
sudo apt install -y sublime-text
```

## 2.4 Visual Studio Community

---

Instalando no Ubuntu 18.04

```
sudo apt install curl

curl https://packages.microsoft.com/keys/microsoft.asc | gpg \
--dearmor > microsoft.gpg && sudo mv microsoft.gpg \
/etc/apt/trusted.gpg.d/microsoft.gpg

sudo sh -c 'echo "deb [arch=amd64] https://packages.microsoft.com/repos/vscode stable main" >
/etc/apt/sources.list.d/vscode.list'

sudo apt update && sudo apt install -y code
```