



# Arch Linux

A friendly introduction.

Good morning.

The Arch developers and engineers who maintain the system belong to a higher order of humans.

They maintain the overall system in an efficient and collective way, adhering to a central set of principles to guide them... and they do it for free.



# Arch Linux FAQs...

## What is Arch Linux?

Arch Linux is an independently developed, x86-64 general-purpose GNU/Linux distribution that strives to provide the latest stable versions of most software by following a rolling-release model. The default installation is a minimal base system, configured by the user to only add what is purposely required.

## Is Arch Linux right for the linux beginner?

If you are a beginner and want to use Arch, you must be willing to invest time into learning a new system, and accept that Arch is designed as a DIY (Do-It-Yourself) distribution; it is the user who assembles the system.

[https://wiki.archlinux.org/index.php/Frequently\\_asked\\_questions](https://wiki.archlinux.org/index.php/Frequently_asked_questions)



# Arch Linux at a high level...

## Arch Linux Principles

- Simplicity
- Modernity
- Pragmatism
- User centrality
- Versatility

## Comprehensive Wiki

One of the primary objectives of ArchWiki is to cover all aspects of computing using Arch Linux. From the media center to managing corporate networks, anything Arch Linux can achieve is within the scope of ArchWiki.

## System Requirements

Arch Linux should run on any x86\_64-compatible machine with a minimum of 512 MB RAM.

A basic installation with all packages from the base group should take less than 800 MB of disk space.

[https://wiki.archlinux.org/index.php/Arch\\_Linux](https://wiki.archlinux.org/index.php/Arch_Linux)  
<https://wiki.archlinux.org/index.php/ArchWiki>



# Several ways to get started with **Arch Linux**...

## Manual Installation

### Learn as you go...

Use the guide to install Arch Linux from a live system booted with the official installation image.

Deep dive into the wiki to understand any concepts which are foreign to you.

## Virtualized Install...

### Hit the ground running...

Arch maintains an official automated Vagrant box releases on all new system updates.

Use Vagrant to fast track into a working Arch environment.

## Unofficial Distros...

### Automated Installers...

User friendly GUIs, ease of installation, requires only novice level of technical experience to install and maintain.

Support model is with unofficial distro only.

[https://wiki.archlinux.org/index.php/Arch\\_Linux](https://wiki.archlinux.org/index.php/Arch_Linux)  
<https://app.vagrantup.com/archlinux/boxes/archlinux>  
[https://wiki.archlinux.org/index.php/Arch-based\\_distributions](https://wiki.archlinux.org/index.php/Arch-based_distributions)



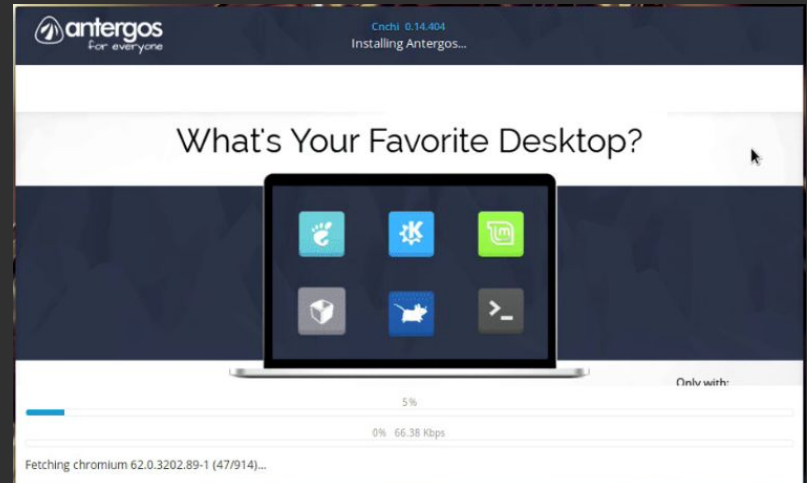
## A very basic Arch Linux Vagrant file:

```
1 # -*- mode: ruby -*-
2 # vi: set ft=ruby :|
3 Vagrant.configure("2") do |config|
4   config.vm.box = "archlinux/archlinux"
5   config.vm.network "forwarded_port", guest: 80, host: 80, host_ip: "127.0.0.1"
6   config.vm.network "forwarded_port", guest: 443, host: 443, host_ip: "127.0.0.1"
7   config.vm.network "forwarded_port", guest: 8080, host: 8080, host_ip: "127.0.0.1"
8   config.vm.network "forwarded_port", guest: 8099, host: 8099, host_ip: "127.0.0.1"
9   config.vm.provision "shell", inline: <<-SHELL
10     pacman -Syu --noconfirm
11     pacman -S docker docker-compose --noconfirm
12     gpasswd -a vagrant Docker
13     systemctl enable docker
14     echo "use 'vagrant ssh' to access this box..."
15   SHELL
16 end
```

# What do I use?

I use Vagrant Arch boxes in my Windows desktop and have recently adopted the Antergos Distro for my linux desktop

## Antergos is made to be simple:



# Why use Arch Linux at all?

Because it will make you a better Linux user.

Relying on complex tools to manage and build your system is going to hurt the end users. [...] "If you try to hide the complexity of the system, you'll end up with a more complex system". Layers of abstraction that serve to hide internals are never a good thing. Instead, the internals should be designed in a way such that they NEED no hiding.

— Aaron Griffin [current lead Arch developer since 2007]

[https://en.wikipedia.org/wiki/Arch\\_Linux#Design\\_and\\_principles](https://en.wikipedia.org/wiki/Arch_Linux#Design_and_principles)





# Questions?

There is so much more that I've not even mentioned.







# Thank you for your time.

Stay curious and reach out with any questions.

My meetup profile: <https://www.meetup.com/members/48104732/>

