

# bonsai framework

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## INTRODUCTION

This is a cookbook to build and manage enterprise [Information Technology](#) solutions focusing on open source and to democratizing technology.

The name Bonsai Framework references a Bonsai approach to cultivation of technology trees to,

Remain small and portable ([Zero Footprint](#))

Stay pruned and shaped with proven techniques over time.



Combine key foundational patterns into adaptable solutions.

The framework prioritizes by SecOpsDev - Security (Zero Trust), Operations (Day 2), Dev (Keeping it Simple).

Don't be afraid to give feedback messaging me through [LinkedIn](#).

Special thanks to [Atlassian](#) for sponsoring software licences to Bonsai Framework in support of advocating Open Source.

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## WHERE TO START?

### Know Your Basics

**You should understand the following,**

- Fundamentals of directories and files.
  - Be able to edit text files at the command line.
  - Basic understanding of how a Web Server works.
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## ENTERPRISE INFRASTRUCTURE

### Servers and Hosting

How to setup enterprise class operations and infrastructure from a DevOps and OpsDev perspective.

[Setup Ubuntu](#) - Minimal setup. Recommend practicing inside virtual machine.

[Setup Apache](#) - The very first thing to get going on the Internet

[Setup Tomcat](#) - Setup [zero footprint software](#) Tomcat which is a good step towards understanding how cloud applies to application servers.

[Virtual Hosting with Apache Server](#) - Multiple websites on one web server.

Practical application of the tutorials,

- [Confluence](#) - Setup your own Knowledge Management website (what you currently see here).
- [Plex](#) - Setup your own streaming media server.

### Fundamental Cloud

Get a good understanding of virtualization options and technologies fundamental to Cloud.

[LXC](#) - Core understanding of container based virtualization towards Cloud.

[LXC with Advanced Networking](#) - Understand under the hoods of how the internal virtualization network works.

[Docker in Relation to LXC](#) - How your LXC learnings apply to Docker.

[Hypervisor](#) - Select and run a virtualization infrastructure at home.

### Journey to Cloud

[Cloud Stack](#) - Currently trying to process the good enough cloud stack for the Bonsai Framework.

[Path to Cloud](#) - In flight progressive journey to moving the Cloud.

[Cloud Density](#) - Reduce cost of Cloud through isolation technology and techniques.

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## TOOLS

Tin's software picks for [Windows 7](#) and [Mac OS X](#).

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## FAQs

### Is This Software?

No. These are techniques to selecting, connecting and customizing technologies. At the same time, written to educate and provide practical context.

Anybody can look up how to build a system or house, but the intent here is to be organized, include tricks of the trade and *exercised* documentation.

The material is curated to create a low maintenance enterprise technology tree. Like a Bonsai Tree, it starts simple (fast) but can easily be grown within established patterns.

### Is This Open Source?

This falls under the same "open source" equivalent ([Creative Commons](#)) as [Wikipedia.com](#).

### Can I Contribute Beyond Anonymous Comments?

Sure, send me a [LinkedIn](#) message and I will create you an ID.

### Can I Download the Website?

Yes you may as [the license and terms of use](#) are very liberal.

### What About Development Notes?

Yes, I've got lots but the effort to rewrite and modernize is not something I have time for right now. I've had a number of requests, so I may put up some overall concepts and practices.

### When did you start?

1996 with the [Confluence edition started](#) (minus Dev notes) Jan 2010.

### More Questions

Check the [FAQ](#) or Message me via [LinkedIn](#).

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## RECENT UPDATES

### All Updates



- [Photography Photoshop Correction](#)
- [4.0 Setup Apache Web Server on Ubuntu Linux](#)
- [9.1 Software Picks - Mac OS X](#)
- [Digital Watch List - Casio and G-Shock Watch List Considerations](#)

[Tin Pham](#) (May 06, 2024)

[Tin Pham](#) (Apr 17, 2024)

[Tin Pham](#) (Apr 09, 2024)

[Tin Pham](#) (Mar 08, 2024)

- [1.0 Setup Ubuntu Linux Base Server version 22](#) [Tin Pham](#) (Dec 21, 2023)
- [Home Server Virtualization](#) [Tin Pham](#) (Dec 21, 2023)
- [Setup Ubuntu Linux Base Server Bash Script 20 \(Dec 2023\)](#) [Tin Pham](#) (Dec 20, 2023)
-  [VMWare Fusion 11.5.0 on Mac OS X.png](#) [Tin Pham](#) (Dec 18, 2023)
-  [VMWare Grub Error.jpg](#) [Tin Pham](#) (Dec 18, 2023)
-  [image2016-8-4 10:41:2.png](#) [Tin Pham](#) (Dec 18, 2023)
- [1.0 Setup Ubuntu Linux Base Server - Ubuntu 16 and Older](#) [Tin Pham](#) (Dec 18, 2023)
- [1.5 Server Standards](#) [Tin Pham](#) (Dec 18, 2023)
- [Setup Ubuntu Linux Base Server Bash Script 16.04.1 \(Oct 2016\)](#) [Tin Pham](#) (Dec 18, 2023)
- [Fun 2.0 - Nvidia Shield](#) [Tin Pham](#) (Nov 19, 2023)
- [Keyboard Shortcuts for Mac OS X with Windows Keyboard](#) [Tin Pham](#) (Aug 23, 2023)
- [5.4 Docker in Relation to LXC \(Linux Container\)](#) [Tin Pham](#) (May 21, 2023)
- [4.1 Apache Virtual Hosting](#) [Tin Pham](#) (May 21, 2023)
- [Building OFS Apache Web Server on Solaris](#) [Tin Pham](#) (May 20, 2023)