

Home

# 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

- [9.1 Software Picks - Mac OS X](#)
- [9.0 Software Picks - Windows 7](#)
- [Mounting Shared Folders on Linux](#)
- [rsync](#)

[Tin Pham](#) (Nov 20, 2022)

[Tin Pham](#) (Nov 05, 2022)

[Tin Pham](#) (Sep 25, 2022)

[Tin Pham](#) (Aug 20, 2022)

- [Digital Watch List - Casio and G-Shock Watch List Considerations](#)
- [Hacks](#)
- [Keyboard Shortcuts for Mac OS X with Windows Keyboard](#)

[Tin Pham](#) (Jul 24, 2022)

[Tin Pham](#) (Jul 01, 2022)

[Tin Pham](#) (Jun 18, 2022)