

# Reggae

Cool way of managing jails/VMs on  
FreeBSD

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# Similar Tools

- ▶ Vagrant
- ▶ Docker compose
- ▶ CBSDFile

# Concept

- ▶ CBSD
- ▶ Service
- ▶ Project
- ▶ Provisioners
- ▶ IPv4 & IPv6

# Technologies

- ▶ DHCP
- ▶ RTADVD
- ▶ NSD
- ▶ Unbound
- ▶ PF
- ▶ Make
- ▶ POSIX shell
- ▶ ZFS and UFS

# Provisioners

- ▶ Shell
- ▶ Ansible
- ▶ Puppet
- ▶ Chef
- ▶ Salt Stack

# What it brings

- ▶ Network initialization
- ▶ CBSD initialization
- ▶ Master jail (DHCP+DNS)
- ▶ Late per-jail PF anchors
- ▶ Prod vs Dev

# What it brings

- ▶ Support for devfs
- ▶ Boot order
- ▶ PKG proxy
- ▶ Support for X
- ▶ Jail and bhyve



# Development

- ▶ Turn off autostart
- ▶ Share service dir via nullfs
- ▶ The 'devel' user and make target
- ▶ Frameworks support (Freenit)

# Production

- ▶ Turn on autostart
- ▶ The 'devel' user is cleared
- ▶ Export/import with rename

# Example

```
mkdir myproject  
cd myproject  
reggae project-init  
mkdir -p services/backend  
cd services/backend  
reggae init ansible
```

# Dependencies in Project

USE = mysql wordpress nginx  
[github.com/mekanix/comms](https://github.com/mekanix/comms)

# The Future

- ▶ Documentation
- ▶ jail.conf
- ▶ Kubernetes

# Thank you!

- ▶ Tilda Center
- ▶ FreeBSD community
- ▶ CBSD/Oleg

# Questions?

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- ▶ mastodon: @meka@bsd.network
- ▶ slides: github/mekanix/presentations