



How to set up a Galaxy service you can count upon

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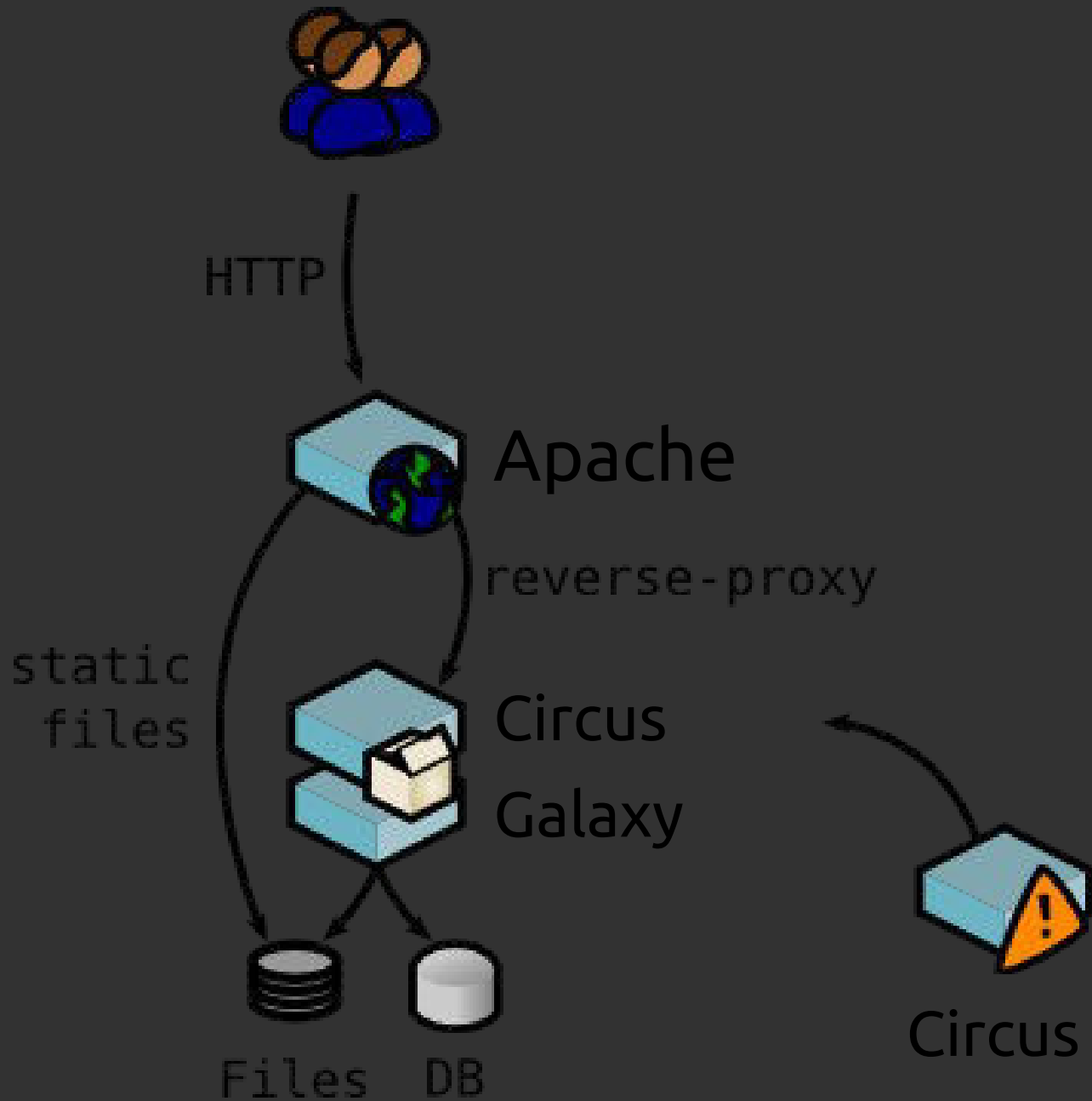


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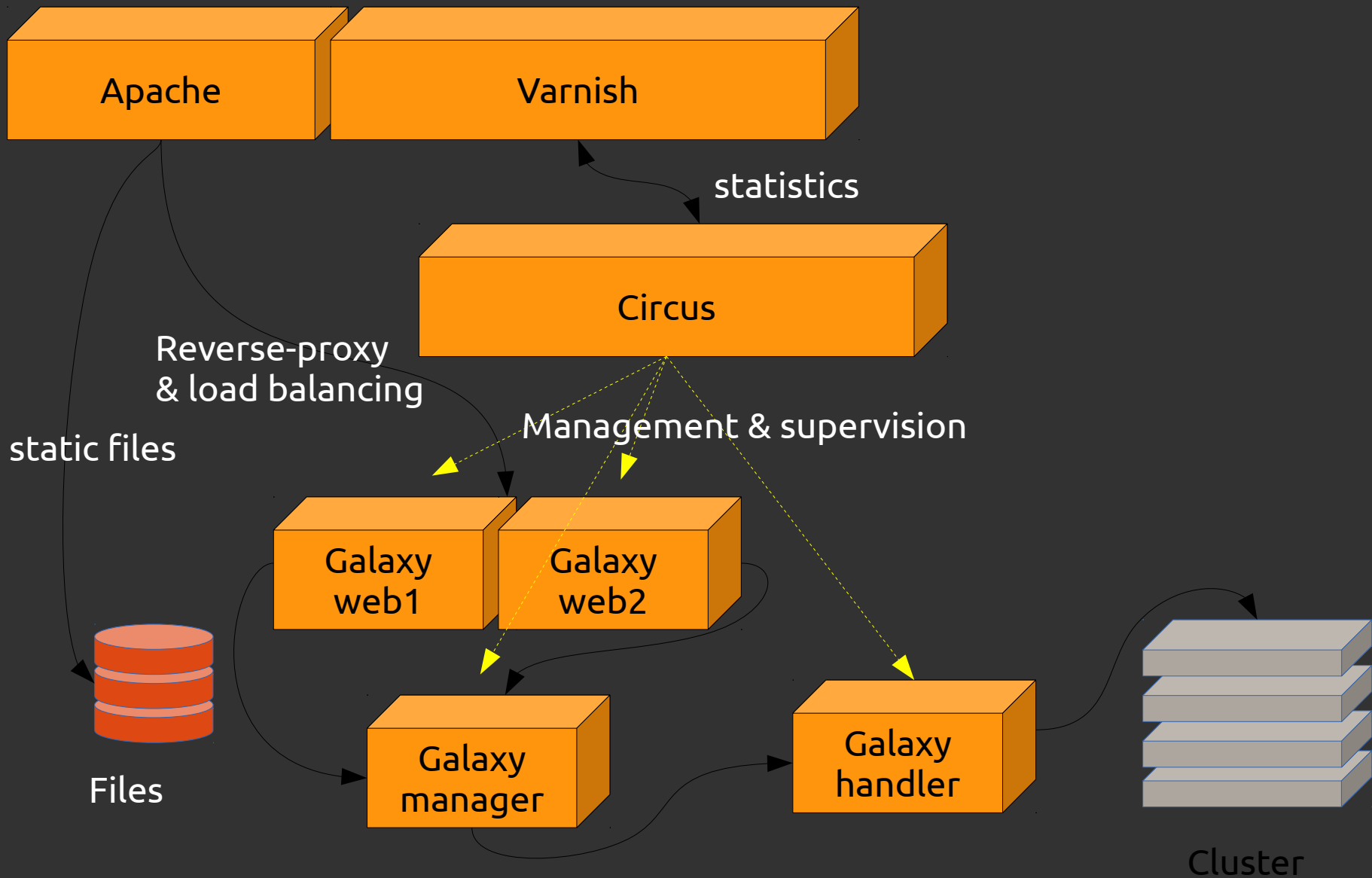
The Zen of Galaxy

- ④ Don't mix code & configuration
- ④ Use virtualenv
- ④ Test
- ④ Test more !
- ④ Use scalable storage/cluster
 - ④ ZFS rocks !
- ④ Know what Galaxy is doing



What is Circus ?





- 🌀 process manager
 - 🌀 starts & stops processes
 - 🌀 automatic respawn with flapping control
- 🌀 monitoring
 - 🌀 real time statistics




Demo if we have some time left

Add Watcher

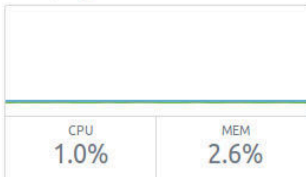
Watchers

Name Status	Processes	Command	Shell	uid	gid
handler0 	1	python ./scripts/paster.py serve universe_wsgi.ini --server-name=handler0 --pid-file=/srv/galaxy/galaxy-dist/run/galaxy-handler0.pid --log-file=/srv/galaxy/galaxy-dist/log/galaxy-handler0.log	False	None	None
main 	1	python ./scripts/paster.py serve universe_wsgi.ini --server-name=main --pid-file=/srv/galaxy/galaxy-dist/run/galaxy-main.pid --log-file=/srv/galaxy/galaxy-dist/log/galaxy-main.log	False	None	None
manager 	1	python ./scripts/paster.py serve universe_wsgi.ini --server-name=manager --pid-file=/srv/galaxy/galaxy-dist/run/galaxy-manager.pid --log-file=/srv/galaxy/galaxy-dist/log/galaxy-manager.log	False	None	None
web1 	1	python ./scripts/paster.py serve universe_wsgi.ini --server-name=web1 --pid-file=/srv/galaxy/galaxy-dist/run/galaxy-web1.pid --log-file=/srv/galaxy/galaxy-dist/log/galaxy-web1.log	False	None	None

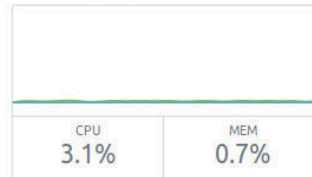
Circus Daemons

 CPU Memory

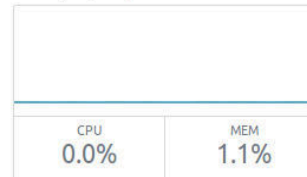
circus (4899s)



circusd-stats (4836s)



circushtpd (4836s)



Options

```
ZeroMQ endpoint used to connect clients like circusctl or circushtpd  tcp://127.0.0.1:5555
ZeroMQ endpoint used for pub/sub                                     tcp://127.0.0.1:5556
ZeroMQ endpoint used for the pub/sub stats                         tcp://127.0.0.1:5557
Delay in seconds for the ZMQ polling.                             1.0
```

OVERVIEW

OPTIONS

HELP

Process #9596 (4537s) [Kill](#)

Metric	Value
CPU	0.0%
MEM	7.2%

Add process

Web-node 1

HOME

OVERVIEW

OPTIONS

HELP

Process #9593 (4537s) [Kill](#)

Metric	Value
CPU	4.1%
MEM	7.2%

Add process

web-node 2

ABP

Metric	Value
CPU	1.0%
MEM	2.6%

Metric	Value
CPU	2.0%
MEM	0.7%

Metric	Value
CPU	1.0%
MEM	1.1%

Circus process

Options