
M2 Documentation

WineSOFT Inc.

2021 02 19

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CHAPTER 1

Overview

M2 WineSOFT On the fly .

1.1

.

-
-

/ .

AS-IS	TO-BE
PC	Mobile
Monolithic Archicurecture	Micro-Service Architecture
On-Premise	Cloud
Single Core	Multi Core

, Batch .

1.2

Batch . (Agility) .

- ?
- ?
- . ?

YES! .

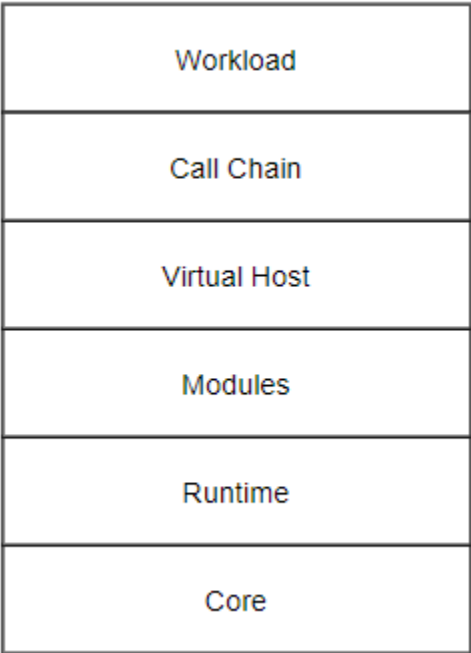
1.3

M2 On the fly .

/	Batch	On the fly
		OnDemand
	Batch	
	Batch	Purge/
	or	or ()
		(TTL)

Contents Service Patterns .

M2 . . .

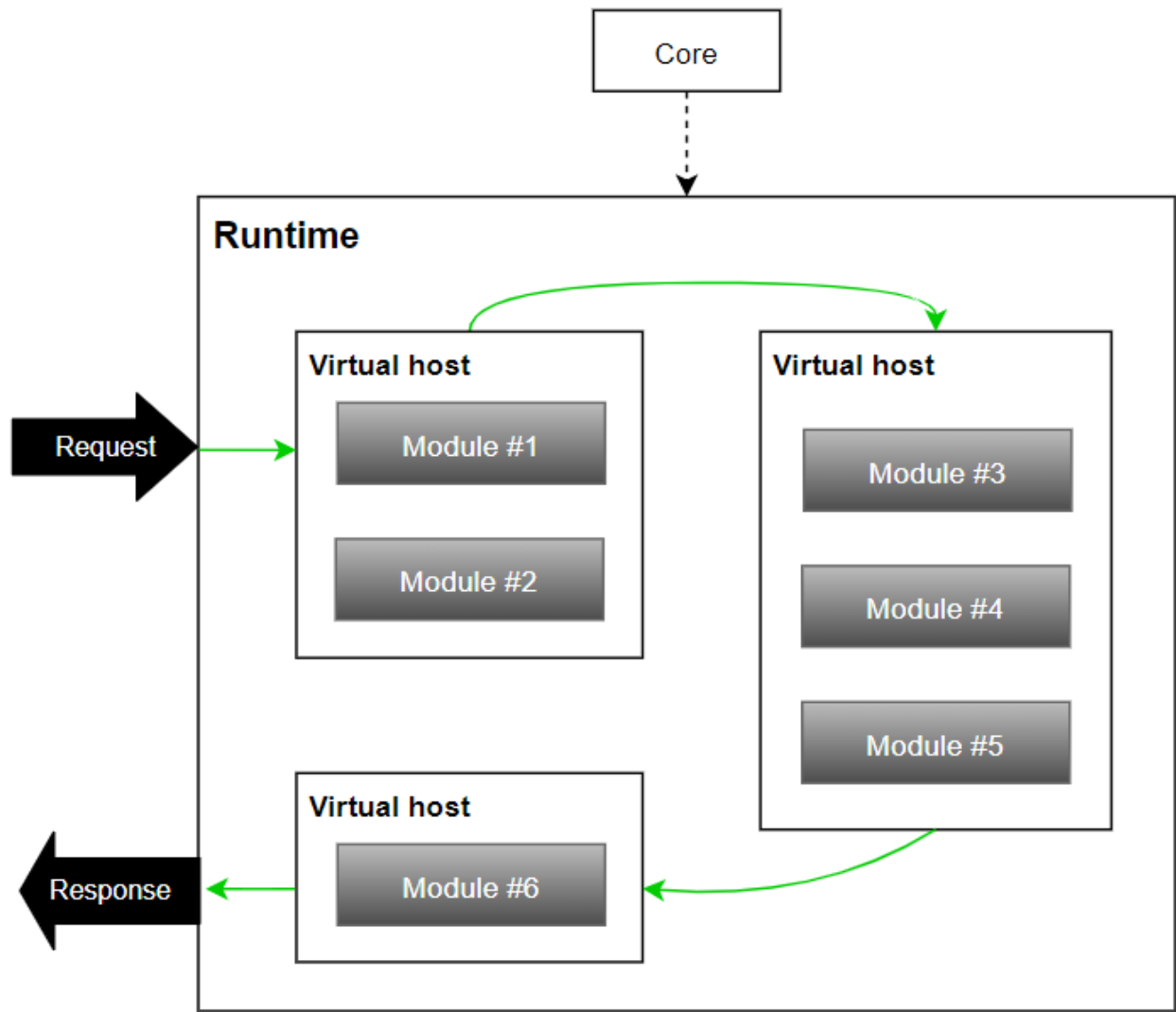


- Core - M2 , RESTful API ,
- Runtime - , , ,
- Modules - HTTP Payload
- Virtual Host - , , , , /
- Call Chain - , , , , ,

- Workload - ,

2.1 Call Chain

Workload on the fly .

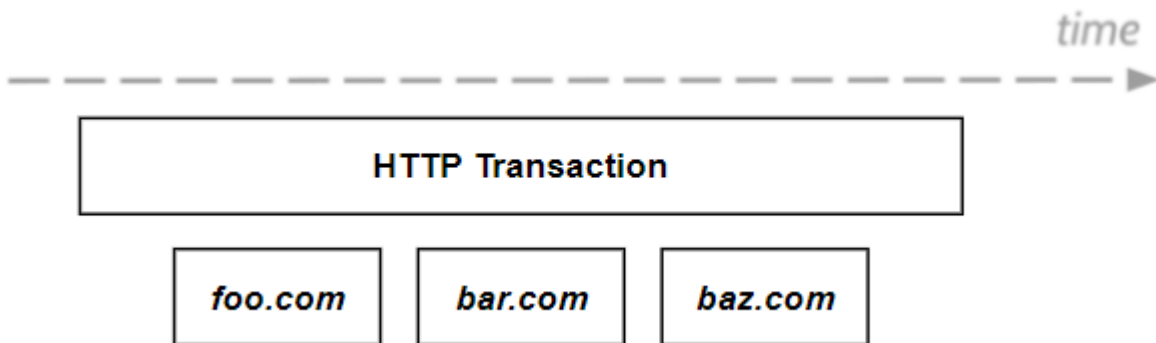
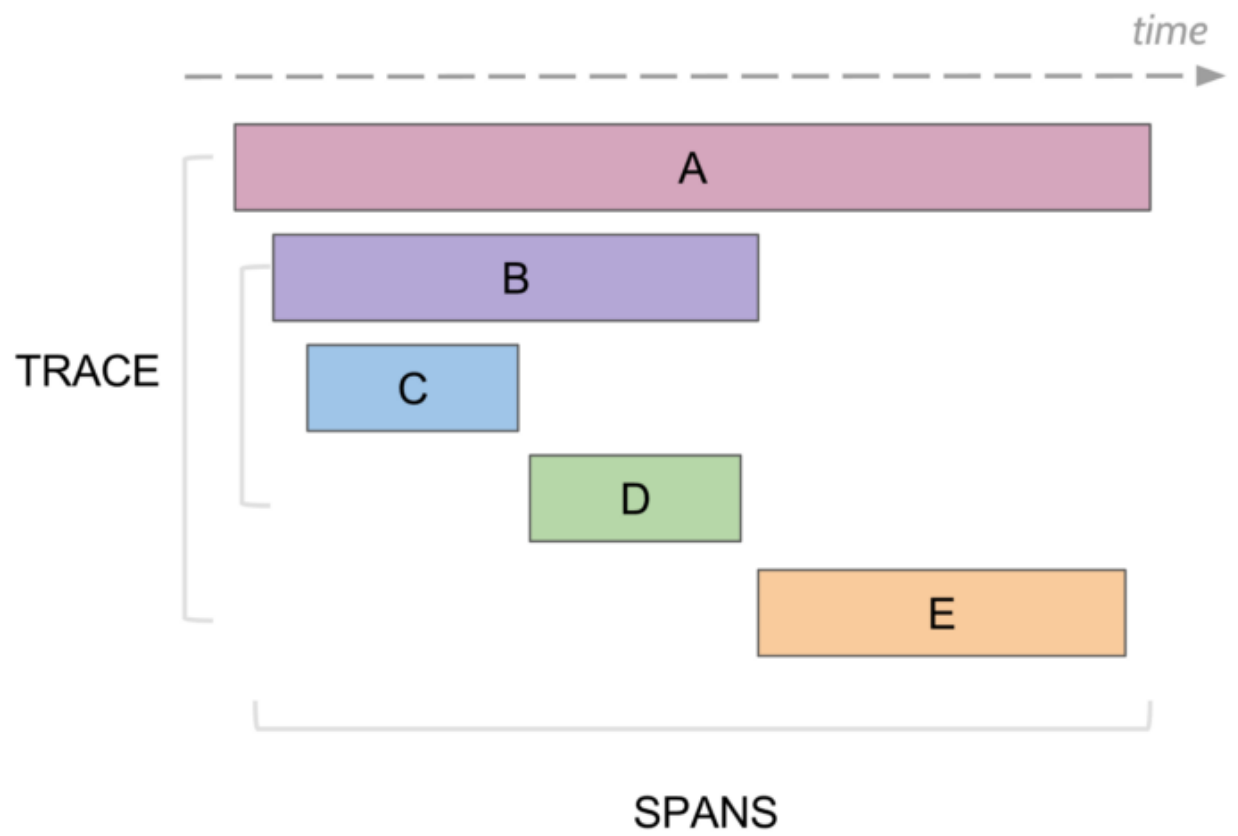


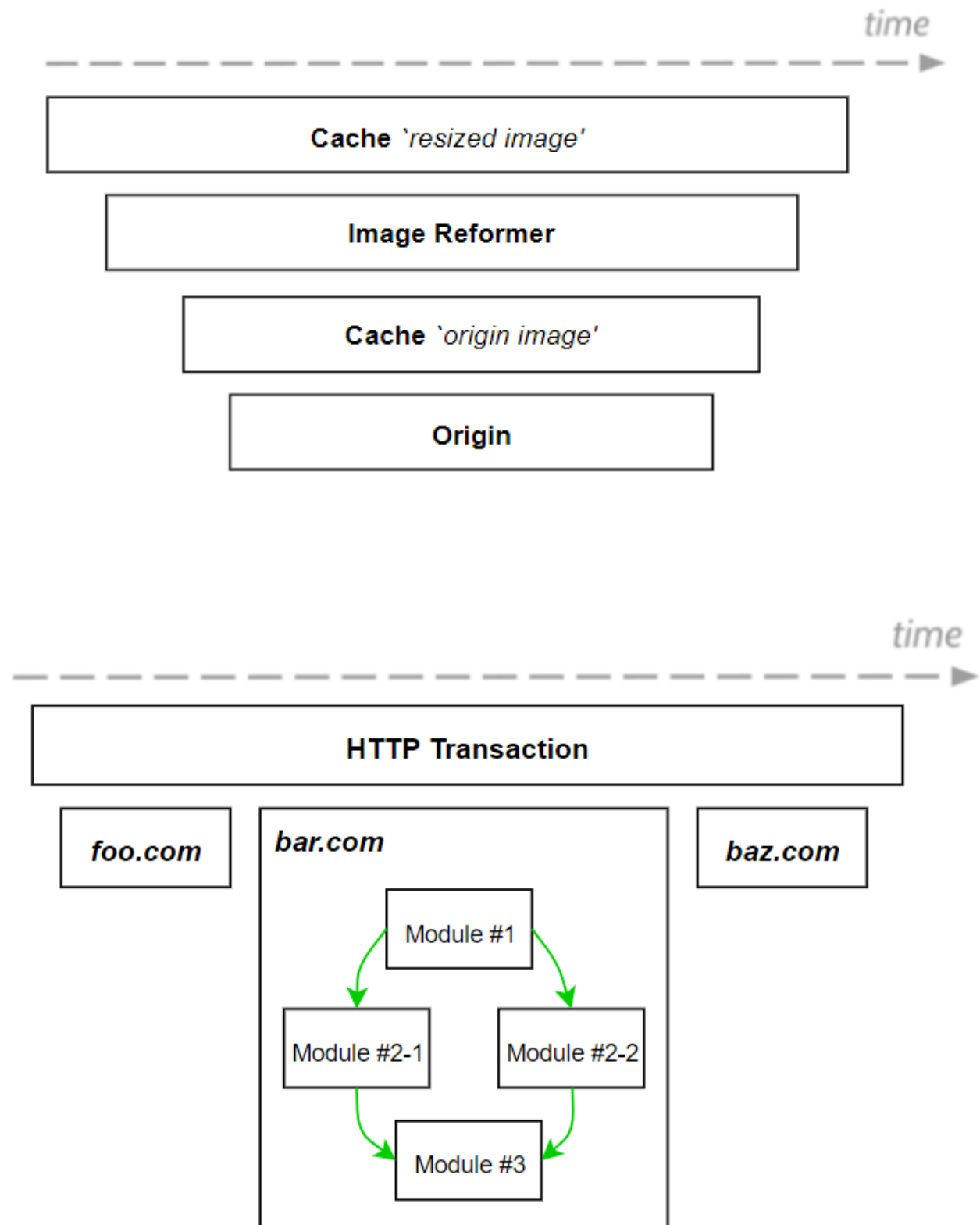
Workload Call Chain .

Call Chain [Open Tracing](#) SPANS TRACE .

Call Chain HTTP Transaction Micro Service Bus 3 .

1. Runtime
2. Virtual Host . /RESIZE . Call Chain .
3. Virtual Host . Legacy .





2.2

HTTP Transaction . . .

- Config - , ,
- Management - , , API, SNMP
- Network - DNS , , ,
- HTTP - , ACL, URL
- Payload - , ,
- Traffic - ,
- Cache - / ,
- Authentication - URL , AWS
- Cloud - AWS/GCP/Azure
- APM - Datadog

3.1 cacheEnv

m2.vhost.cache .

```
"cacheEnv" : {
  "storage" : {
    "disks" : [
      { "path": "/cache1" },
      { "path": "/cache2", "quota": 100 },
    ],
    "error": {
      "cycle": 60,
      "count": 10,
      "onCrash": "hang"
    },
    "cleanUp": {
      "diskSize": 0,
      "indexCount": 0
    }
  },
  "memory": {
    "systemRatio": 100,
    "systemFreeRatio": 40
    "contentRatio": 50
  },
  "cleanUp": {
    "time": "02:00",
    "age": 0,
    "emptyDirectory": "delete"
  }
  "config": {
    "retentionDays": 30
  }
}
```

3.1.1 storage

disks=<LIST>

-
- 255
-
- LRU(Least Recently Used)

path=<PATH>

quota=<N>
(GB)

error

cycle count I/O

cycle=<SEC>

count=<COUNT>

onCrash=<ENUM>

- hang () -
- bypass - . .
- selfkill -

cleanUp

diskSize=<GB>

- (0) 20%
-

indexCount=<COUNT>

- (0) 10%
-

3.1.2 memory

systemRatio=<PERCENTAGE>

. 8GB 50 4GB

systemFreeRatio=<PERCENTAGE>

systemRatio , Free. 40

contentsRatio=<PERCENTAGE>

Contents

3.1.3 cleanUp

time=<mm:ss>
(: 02:00)

age=<N>
0 age

emptyDirectory=<ENUM>

- delete ()
- keep

3.1.4 config

retentionDays=<N>
()

3.2 TO DO

- <Server><Cache><Listen>
- <Server><Cache><MaxSockets Reopen=75>80000</MaxSockets>
- <Server><Cache><HttpClientSession>
- <Server><Cache><EmergencyMode>OFF</EmergencyMode>
- <Server><Cache><SyncStale>ON</SyncStale>

CHAPTER 4

Virtual Host Componenets

. , , DIMS .

- `http.buf.contentlength` `Content-Length` .
- `image.split.oversize` .
- `http.render.jpg` `JPG` .
- `aws.s3.upload` `AWS-S3` .
- `http.src.sslonload` `src` `SSL/TLS onloading` .
- `http.src.remove.obsolete` .
- `http.page.folding` .

CHAPTER 6

API

API 2.

- External - , API
- Internal - , API

CHAPTER 7

CLI

m2 .

```
m2 init
m2 stop
m2 purge
m2 cluster
m2 vhost
m2 gcomp
m2 vcomp
```


CHAPTER 8

Demo

, , , .

- /
- API
- HLS/trimming
- /
-
-
-

CHAPTER 9

Tips

, ,

- DIMS
-
- Transfer-Encoding: chunked
-
-
- 3

C

```
count=<COUNT>  
    M2 command line option,10  
cycle=<SEC>  
    M2 command line option,10
```

D

```
diskSize=<GB>  
    M2 command line option,10
```

I

```
indexCount=<COUNT>  
    M2 command line option,10
```

M

```
M2 command line option  
    count=<COUNT>,10  
    cycle=<SEC>,10  
    diskSize=<GB>,10  
    indexCount=<COUNT>,10  
    onCrash=<ENUM>,10
```

O

```
onCrash=<ENUM>  
    M2 command line option,10
```