



EOS Admin UI

Andrea Manzi
CERN

EOS Workshop 2017
02-03/02/2017

EOS Admin UI

- Project started last summer by one of our Summer Students: Megha Arora
- Technology used:
 - AngularJS
 - EOS MGM REST API
- The first version implemented
 - “Default” space management
 - NS stats
 - Groups/Spaces/FSs/Nodes info
 - Kinetic drives management

EOS Admin UI

- I took over the project recently
 - Multi-space support
 - Groups/Spaces/FSs/Nodes management (ongoing)
 - Switch to https (to use EOS nginx gateway)
 - Packaging
 - Bug fixes

Main Dashboard

EOS Dashboard

UID: 0 GID: 0

eosdev EOS Instance

Server

Version	4.1.6
Release	20161004172520git71a4322
Feature: Encodepath	curl
Feature: Lazyopen	true

default space status

Select Space: default

Balancer	<input checked="" type="checkbox"/>
Converter	<input checked="" type="checkbox"/>
Geo Balancer	<input type="checkbox"/>
Group Balancer	<input type="checkbox"/>
Quota	<input type="checkbox"/>

Groups Status

83% Active Groups

Space Used

76% Usedbytes / Capacity

Network IO In

0% Inratemib / Ethratemib

Network IO Out

0% Outratemib / Ethratemib

NS Stats


NS STATS

Entity	Value
Files	73
Directories	24
Files Changelog Size	68.25 KB
Directories Changelog Size	63.40 MB
Files Changelog Avg Entry	934.96 bytes
Directories Changelog Avg Entry	2.64 MB

Entity	Value
Boot Status	booted
Boot Time	0 Seconds
Latency Avg	0 Seconds
Latency Sigma	0 Seconds
Threads	71
Uptime	706775

 **1.54 GB**
Virtual Memory

 **977.56 MB**
Resident Memory

 **23.56 MB**
Share Memory

 **507.22 MB**
Growth Memory

1.51 +- 9.87 ms
EXECUTION TIME LATENCY 

0.00 GB/s **0.00 GB/s**
DISK-READ DISK-WRITE

0.00 GB/s **0.00 GB/s**
NET-IN NET-OUT



Group/Space Views

Group View

[+ Add Group](#)

Search

Name	Status	Nofs	Dev (Filled)	Avg (Filled)	Sig (Filled)	Balancing	Bal-shd	Drain-shd	Edit
local.16	???	1	0	0	0	idle	0	0	edit del
local.9	on	1	0	1.24	0	idle	0	0	edit del
local.2	off	1	0	0	0	idle	0	0	edit del
default	on	2	38.81	39.81	38.81	balancing	0	0	edit del
local.3	on	1	0	1.24	0	idle	0	0	edit del
local.1	on	1	0	1.24	0	idle	0	0	edit del

Space View

[+ Define Space](#)

Search

Name	Groupsize	Groupmod	N(fs)	sum(usedbytes)	sum(capacity)	capacity(rw)	nom.capacity	threshold	Edit
local	0	0	17	352.48 GB	28.43 TB	0.00 bytes	0	20	edit del
default	1	1	2	78.66 TB	104.00 TB	100.00 TB	0	20	edit del

Filesystem/Node Views

File System View

 Add Filesystem

Search

Host	Id	Path	Schedgroup	Geo-tag	Boot	Config-status	Drain	Active	Edit
p05614910a92540.cern.ch	14	/var/tmp/leos08	local.7	kinetic	booted	ro	nodrain	online	edit del
p05614910a92540.cern.ch	23	/root/paul/direct	local.16	kinetic	booted	ro	nodrain	NULL	edit del
p05614910a92540.cern.ch	15	/var/tmp/leos09	local.8	kinetic	booted	ro	nodrain	online	edit del
p05614910a92540.cern.ch	5	kinetic://single/	default	kinetic	booted	ro	nodrain	online	edit del
p05614910a92540.cern.ch	16	/var/tmp/leos10	local.9	kinetic	booted	ro	nodrain	online	edit del
p05614910a92540.cern.ch	4	/var/tmp/eos	local.0	kinetic	booted	ro	nodrain	online	edit del

Node View

 Add Node

Search

Hostport	Geotag	Status	Txgw	Gw-queued	Gw-ntx	Gw-rate	Heartbeatdelta	Nofs	Edit
p05614910a92540.cern.ch:1095		online	off	NULL			2	19	edit del



Kinetic main configuration

Space

[Add Cluster](#) [Add Drive](#) [Set Security](#) [Publish](#)

Library Configuration Clusters Drives

Cache Capacity (in MB)	<input type="text" value="2000"/>
Max. Background IO Threads	<input type="text" value="12"/>
Max. Background IO Queue	<input type="text" value="24"/>
Max. Read Ahead Window	<input type="text" value="6"/>

[Update](#)

Kinetic clusters/drives

Space:

[Add Cluster](#)
[Add Drive](#)
[Set Security](#)
[Publish](#)

Library Configuration Clusters Drives

Search

Name	Drives	Data	Parity	Chunk Size	Timeout	Connect	Failed Drives	Indicator	Edit
test_default-cluster	2	333	33	333 KB	33 seconds	33 seconds	Not Available	Not Available	edit del
c5.gva.s4t	25	16							
single	1	1							
ember	4	3							

Space:

[Add Cluster](#)
[Add Drive](#)
[Set Security](#)
[Publish](#)

Library Configuration Clusters Drives

Search

WWN	ETH0	ETH1	Port	Clusters	Edit
kinetic-57-5	kinetic-57-5a.cern.ch	kinetic-57-5b.cern.ch	8123		edit del
kinetic-67-12	kinetic-67-12a.cern.ch	kinetic-67-12b.cern.ch	8123		edit del
kinetic-57-6	kinetic-57-6a.cern.ch	kinetic-57-6b.cern.ch	8123	c5.gva.s4t	edit del
ember1	it-ember1	it-ember1	8123	ember	edit del
kinetic-57-7	kinetic-57-7a.cern.ch	kinetic-57-7b.cern.ch	8123		edit del
ember3	it-ember3	it-ember3	8123	ember	edit del
kinetic-57-8	kinetic-57-8a.cern.ch	kinetic-57-8b.cern.ch	8123		edit del
kinetic-46-1	kinetic-46-1a.cern.ch	kinetic-46-1b.cern.ch	8123		edit del
kinetic-57-9	kinetic-57-9a.cern.ch	kinetic-57-9b.cern.ch	8123		edit del
kinetic-46-3	kinetic-46-3a.cern.ch	kinetic-46-3b.cern.ch	8123		edit del

« ‹ 1 2 3 ... 26 › »



Next Steps

- Complete the Groups/Spaces/FSs/Nodes management
- Feedback from CERN EOS Ops team
- Further Bug fixing
- Documentation
- “official” release

Questions?

