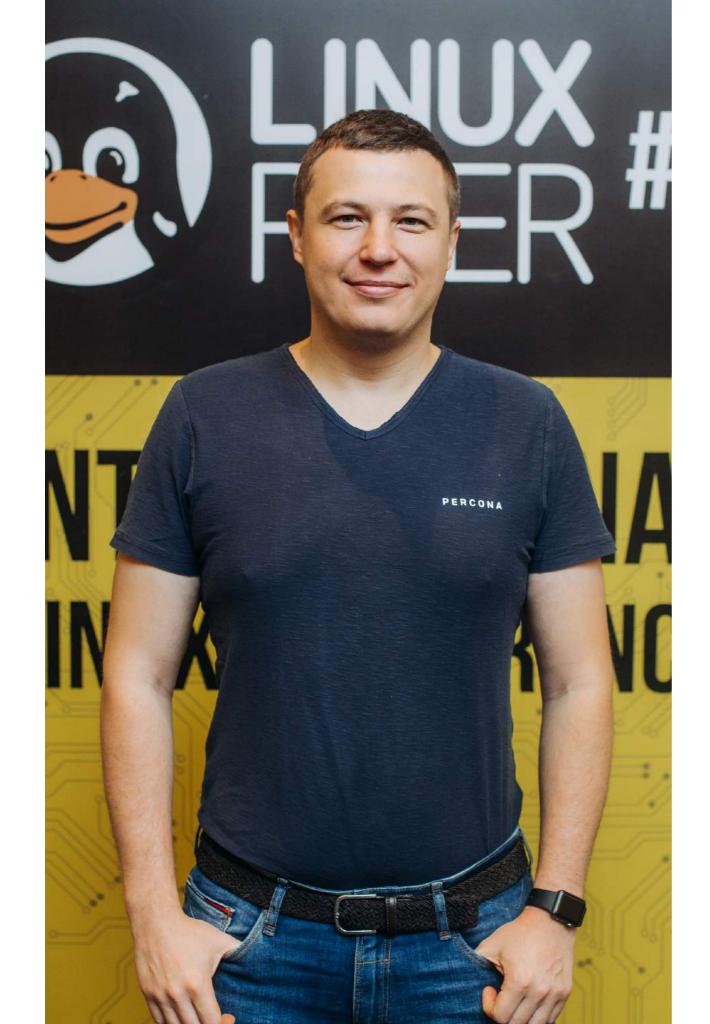


JENKINS ON SPOT

Mykola Marzhan

Version: 25.08.18



Mykola Marzhan Release Engineer, Percona AWS Certified Solutions Architect - Professional

I have been working as Release Engineer for 10 years.

JENKINS MASTER **ON SPOT INSTANCE**

MURDERED DUE TO PRICE, CAPACITY,



FREQUENCY OF INTERRUPTION

(spot advisor)

AMAZON ELASTIC FILE SYSTEM

EFS PERFORMANCE

	MiB/s	Operations/s	AVG latency (ms)
Sequential read	122,96	7869,10	0,126
Random read	21,13	1352,28	0,737
Sequential write	1,95	124,72	8,026
Sequential rewrite	1,99	127,33	7,869
Random write	1,47	94,14	10,616
Random rewrite	1,55	98,90	4,044

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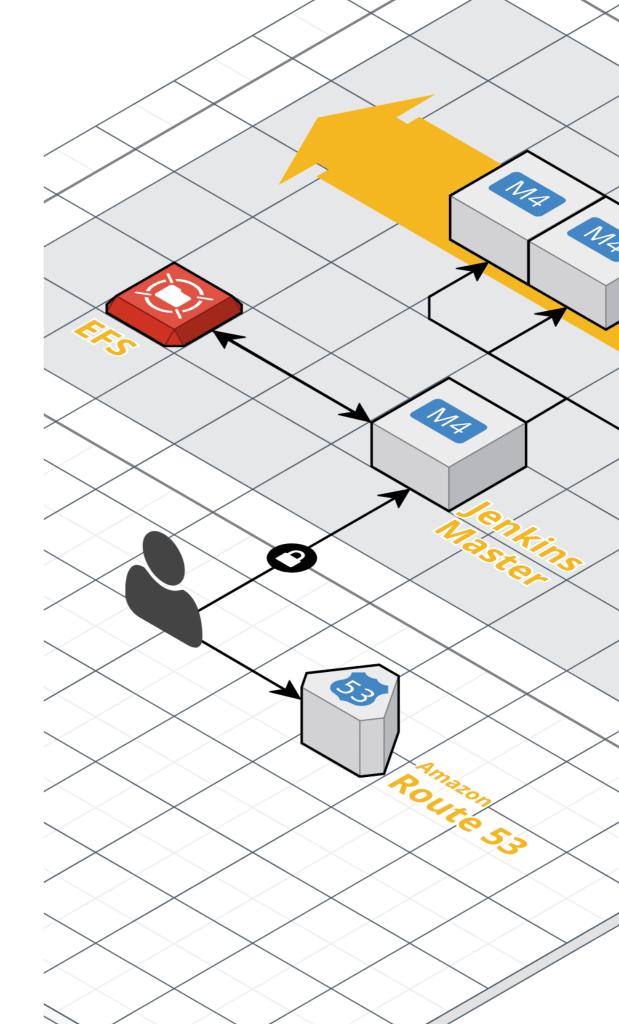
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ENHANCED NETWORKING For EC2 Instances

EFS LIMITATIONS

- EFS not suitable for many small files and one-thread applications
- ► All artifacts to S3
- ► Tens of jobs/pipelines
- ► Few of builds to keep
- Don't "stash" files (extremely slow)

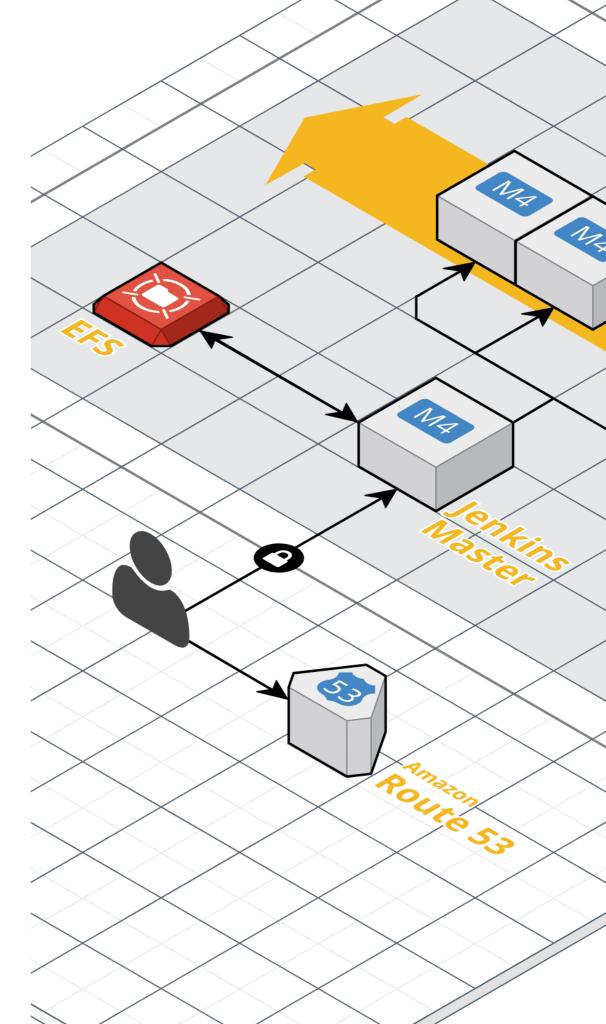


AMAZON ELASTIC BLOCK STORE

2-MINUTE INSTANCE TERMINATION NOTICE

EBS LIMITATIONS

► EBS limits to use one AZ



PIPELINES IN MAX_SURVIVABILITY

NO EXECUTORS ON MASTER NODE

NO WEB-HOOKS

use pollCSM trigger

ELASTIC IP



JENKINS WORKERS ON SPOT INSTANCES

EC2 FLEET JENKINS PLUGIN

- Official AWS plugin
- Configuration on AWS side
- Spot Fleet can start instances in different AZs
- ► Starts two times more instances than needed (PR#29)
- On scale-down AWS terminates instances under load (issues#36)
- New Spot Fleet id on changes

AMAZON EC2 PLUGIN

- Most popular plugin
- Configuration on Jenkins side
- Possible to use external ssh process as transport
- ► Has init script which executed before agent start
- Starts instances one by one
- Instances cannot be started in different AZs
- ► Instance cap is tied to AMI (PR#274)
- Doesn't tag spot instances (JENKINS-19058)

JENKINS WORKER

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	Master USD/month	Worker USD/month
Percona Monitoring and Management	5.13 / 43.27	10.87
Percona Server for MySQL	15.33 / 19.70	288.92
Percona Server for MongoDB	21.36 / 10.83	70.15
Percona XtraBackup	20.92 / 12.37	184.18

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CLOUDFORMATION CONFIG



