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Geographic replication of the VOMS Attribute Authority service

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Workshop sul Calcolo nell'I.N.F.N.—Palau (Sassari)



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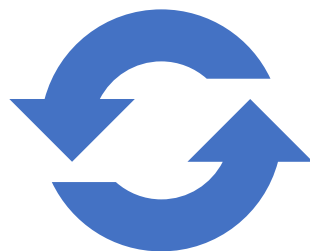
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WHY?



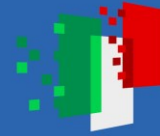
Starting this year legacy VOMS admin servers will be withdrawn at CERN

IAM and VOMS-AA are will replace it maintaining client compatibility



Legacy VOMS servers could be deployed with geo-replication

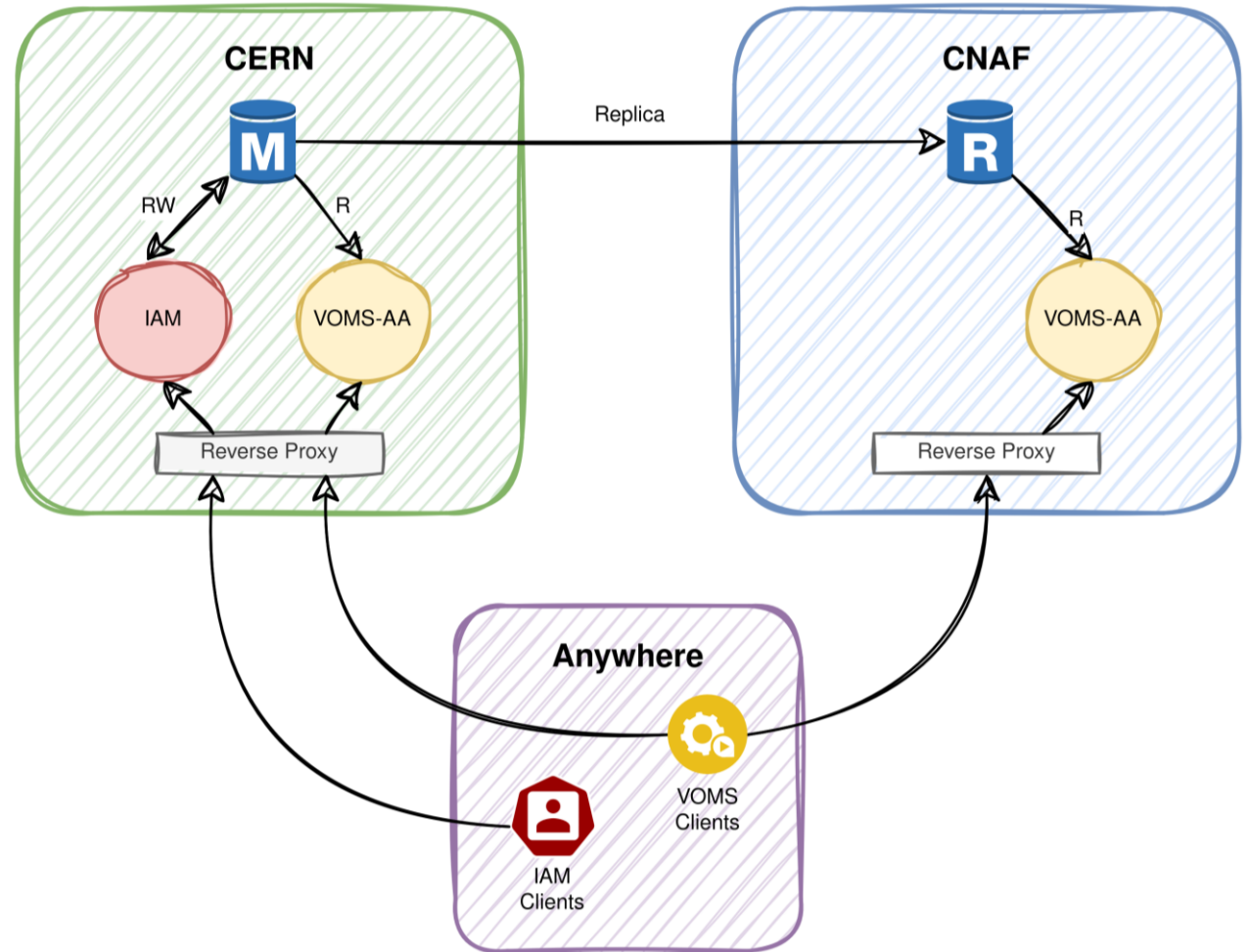
VOMS-AA is required to provide the same level of reliability, fault-tolerance and load bearing capacity



DEPLOYMENT MODEL

- Using MySQL 8 REPLICA
 - Read only
 - SSL Connection
 - Replicate only VOMS-AA tables
- Clients can connect to both instances

Come to the poster to see how it's made!





PROOF OF CONCEPT

Testing the solution with a single docker compose

```
[test@77edbf580b4f ~]$ voms-proxy-init -voms indigo-dc
Enter GRID pass phrase for this identity:
Contacting voms-primary.test.example:443 [/C=IT/O=IGI/CN=*.test.example] "indigo-dc"...
Remote VOMS server contacted successfully.
```

Created proxy in /tmp/x509up_u1000.

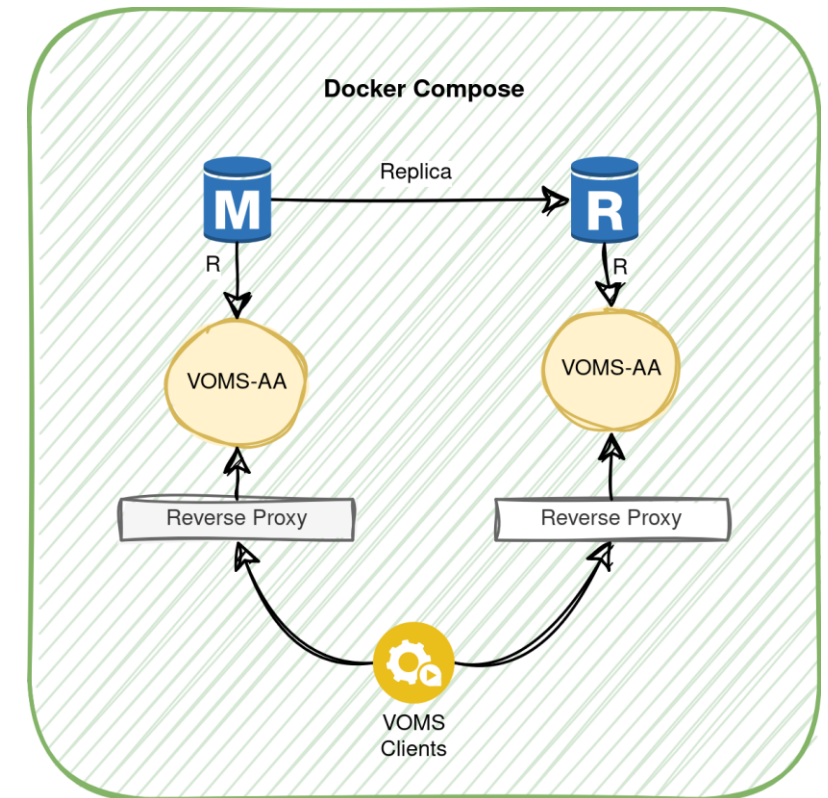
Your proxy is valid until Sat Mar 09 02:02:35 CET 2024

```
[test@77edbf580b4f ~]$
[test@77edbf580b4f ~]$
[test@77edbf580b4f ~]$ voms-proxy-init -voms indigo-dc
Enter GRID pass phrase for this identity:
Contacting voms-replica.test.example:443 [/C=IT/O=IGI/CN=*.test.example] "indigo-dc"...
Remote VOMS server contacted successfully.
```

Created proxy in /tmp/x509up_u1000.

Your proxy is valid until Sat Mar 09 02:02:44 CET 2024

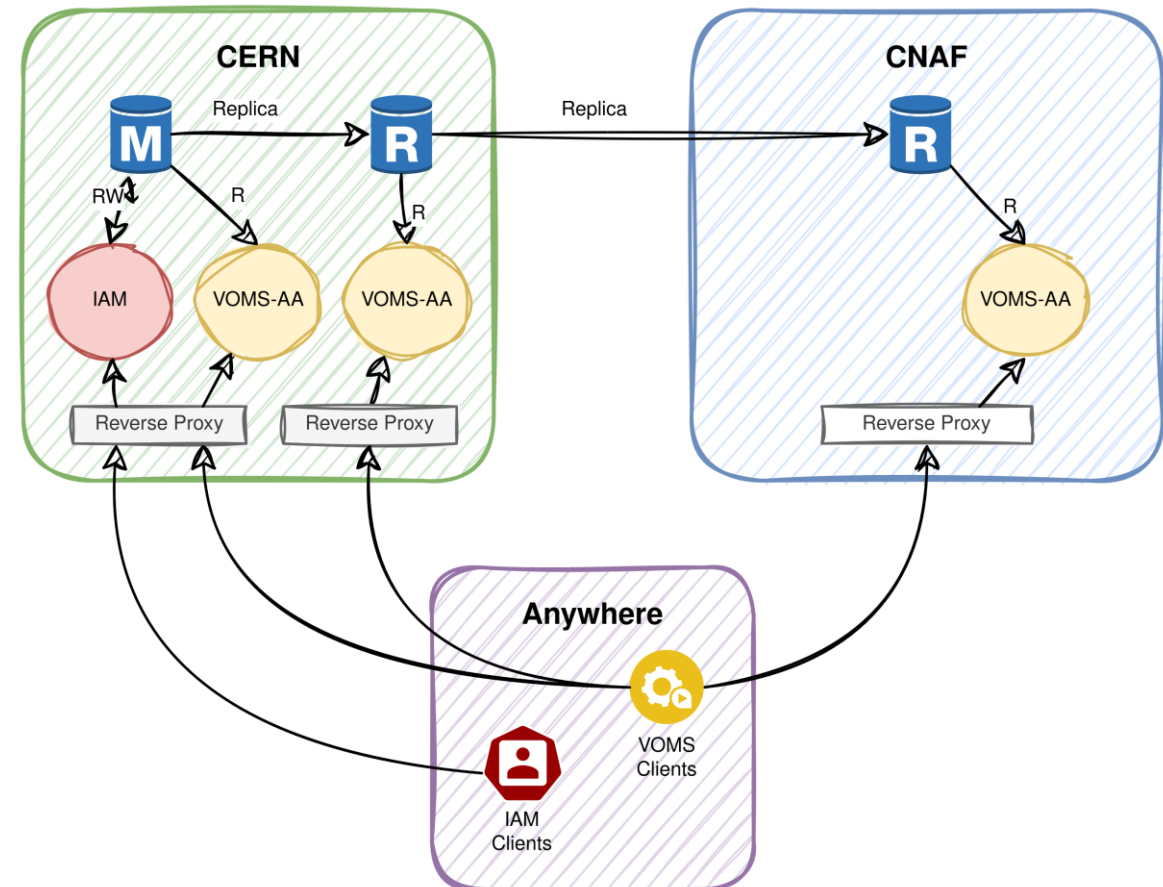
```
[test@77edbf580b4f ~]$
```





ENHANCEMENTS

- Double replica
 - Filter logs before sending them to the remote location
- Running the VOMS-TESTSUITE on the proof of concept





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Thank you

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