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DNS multi master architecture for High Availability services

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In order to build a national infrastructure for High Availability and Disaster Recovery, we are deploying a dedicated DNS multimaster architecture. The architecture is based on bind DLZ (Dynamically Loadable Zones).

The new zone (ha.infn.it) is defined on top of a MySQL backend.

Two or more MySQL servers are configured as multi-master servers in order to allow the ha.infn.it zone to be always updated even if one of the DNS servers (in charge of ha.infn.it) is unreachable.

Critical INFN national services (web services, authentication services, etc) are then replicated at least on two different sites.

If the main server is down, a nagios process will modify the ha.infn.it zone accordingly to point to the online service.

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