

Deployment of 464XLAT (RFC6877) alongside IPv6-only CPU resources at WLCG sites

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We utilized cutting-edge transition technologies to provide IPv6-only WLCG computing resources with full backwards-compatible connectivity to IPv4-only WLCG resources.

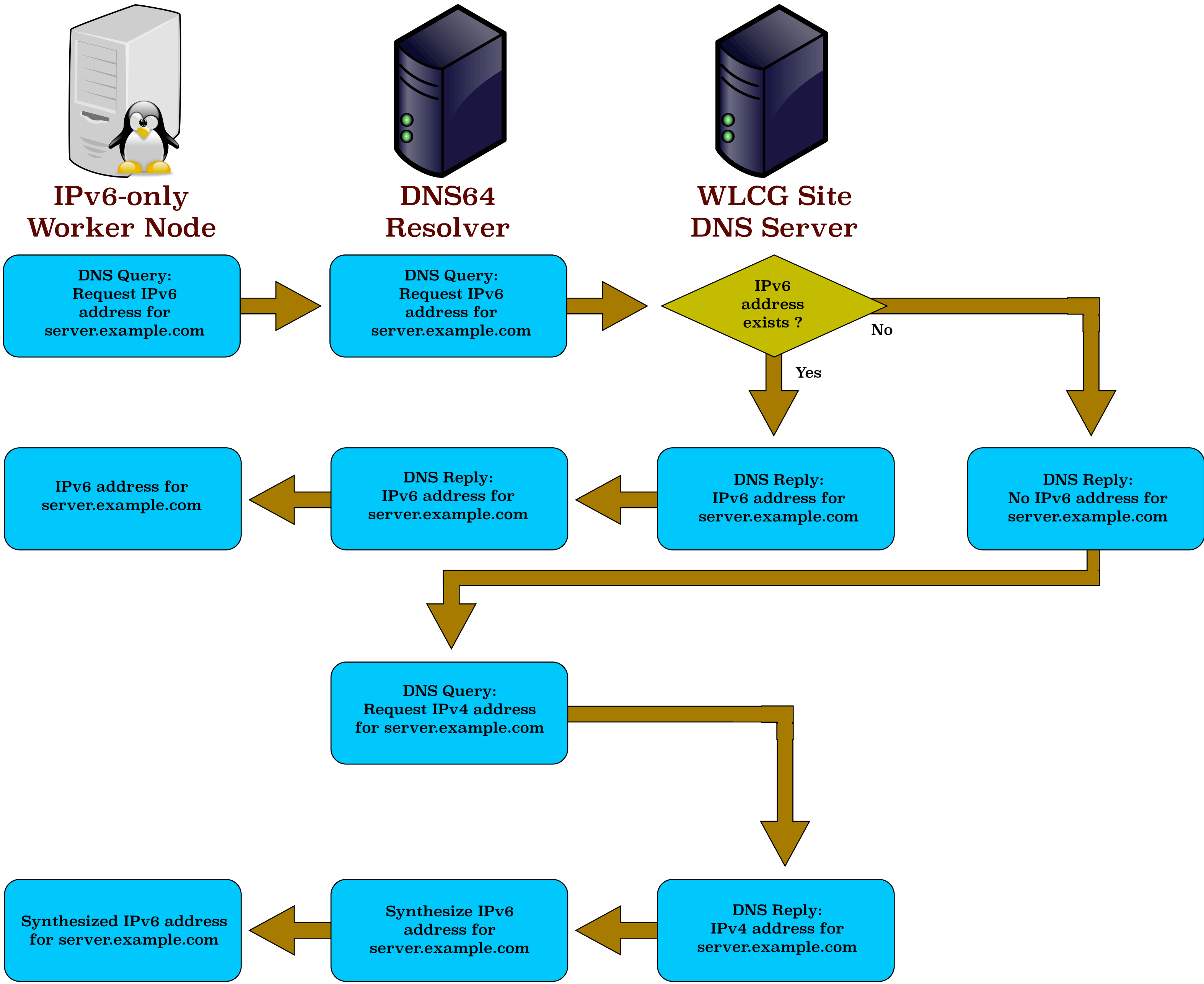
Motivation

- 1) IPv6 (Internet Protocol version 6) has been production-ready for more than a decade but not all WLCG sites are offering services over IPv6 yet.
- 2) Mandated requirement for all WLCG sites to be able to support the use of IPv6-only Worker Nodes (WNs) by April 2017 and the Tier-2 site based at QMUL wanted to adopt and support this strategy.

Solution

DNS64 (RFC6147)

How DNS64 Works



How NAT64 Works