

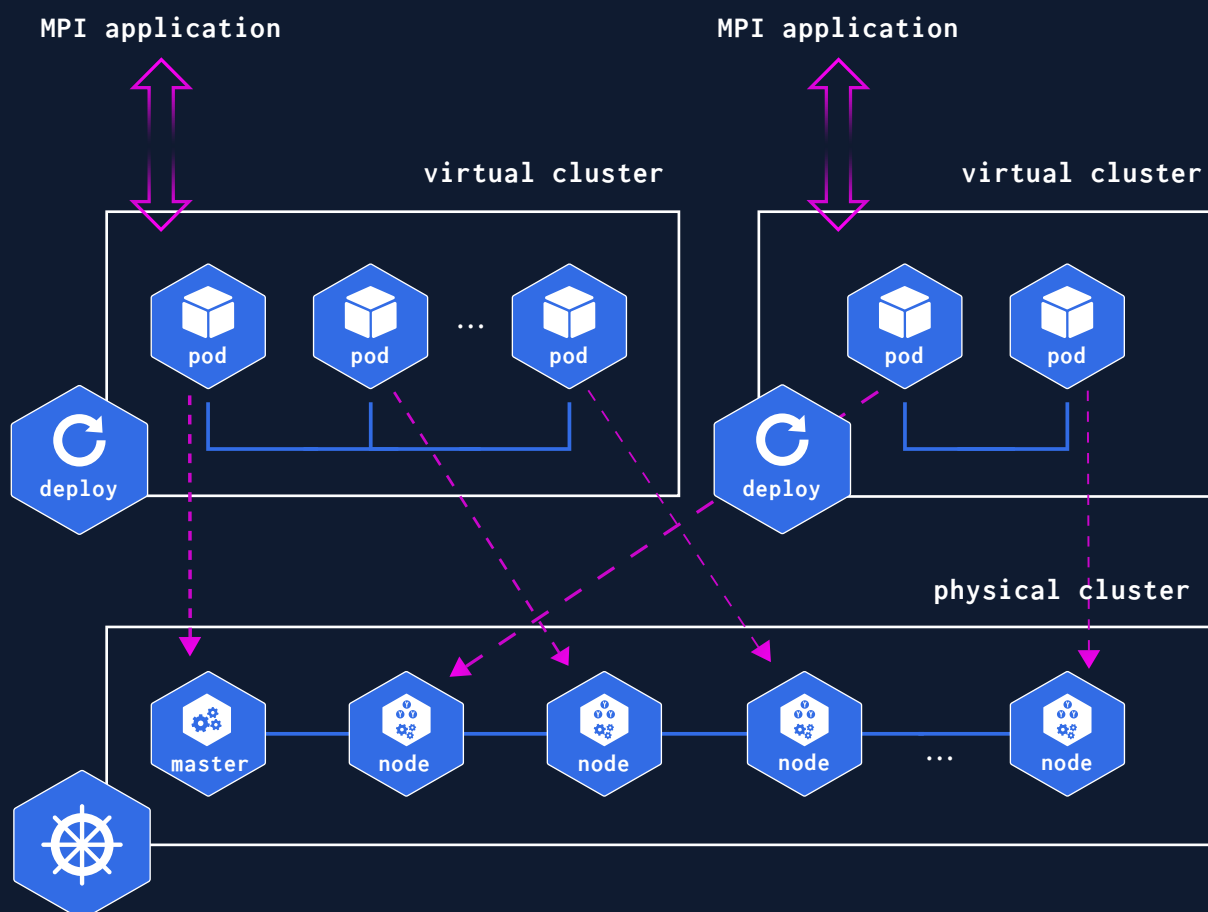
Deliverable D4.5

First version of HPC processing micro services.

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MPI Integration

Processing with integrated custom HPC kernels

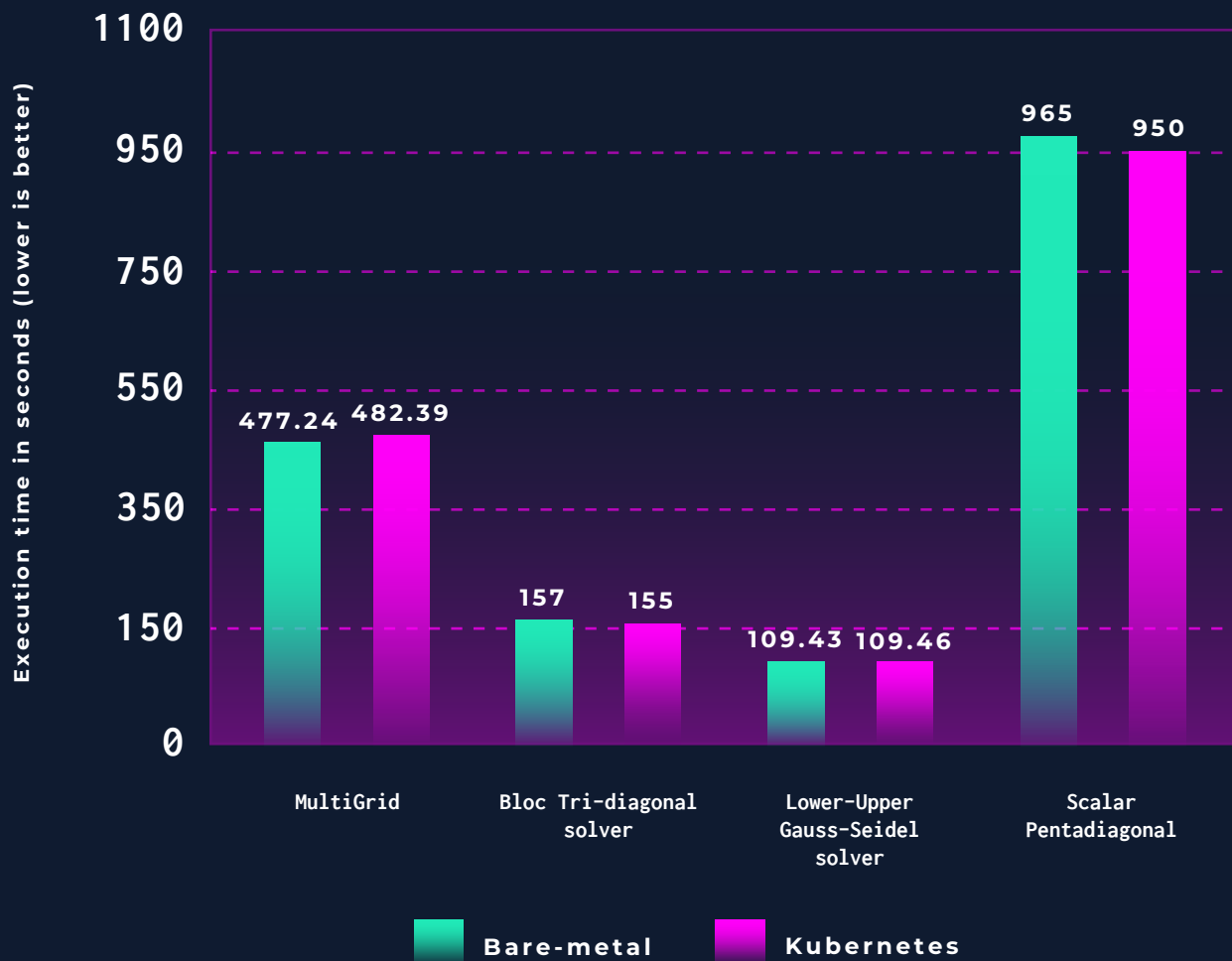


APPROACH

- Containerized MPI “virtual clusters”
- Infiniband support
- Automatic ssh key-management, hostfile creation
- Similar performance to bare metal
- Run in notebook or part of a workflow

Containerization of MPI adds negligible overheads to NAS benchmarks

NAS Parallel Benchmarks over RDMA (16 threads 2 nodes)



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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825061

