



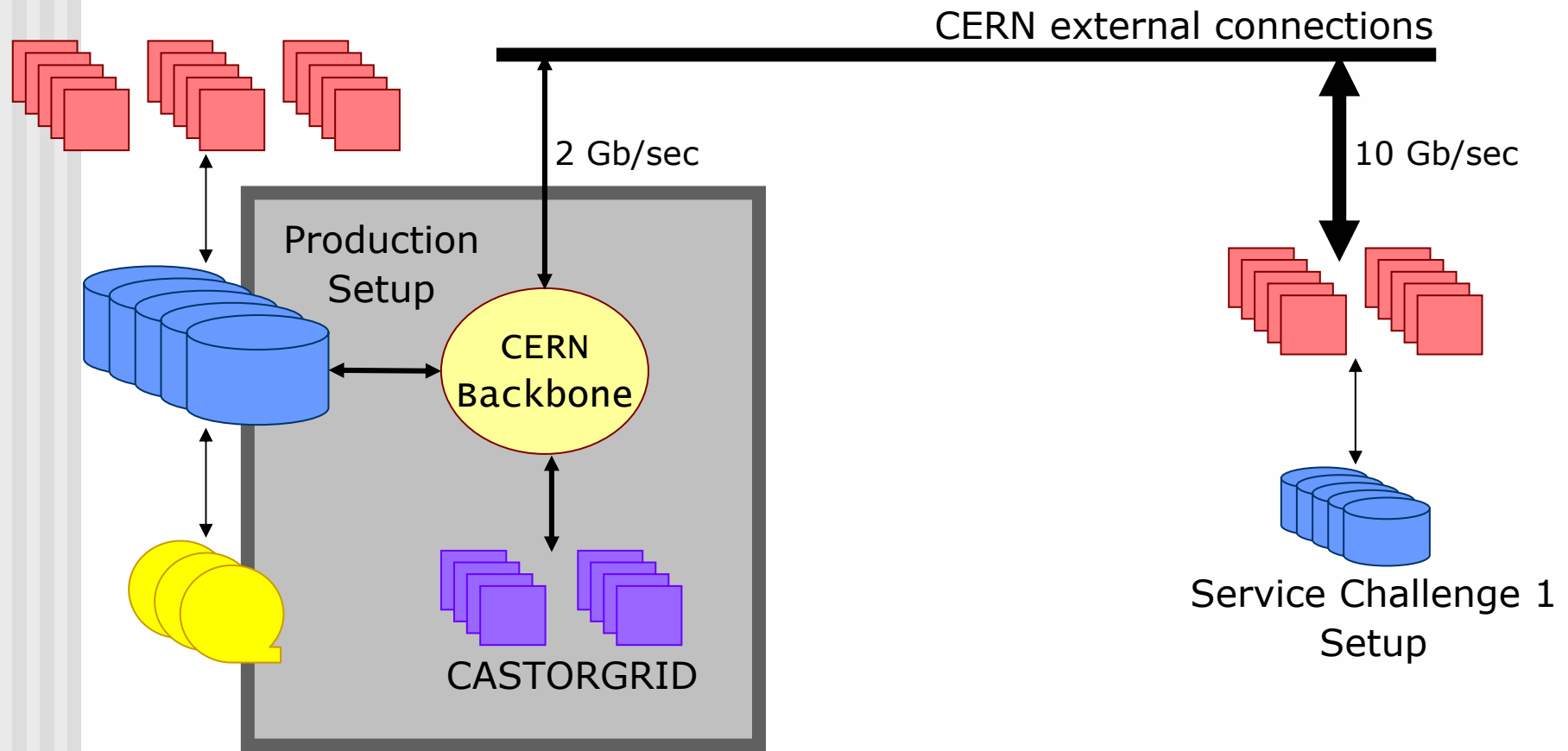
Service Challenge 2

Plans @ CERN

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Current configuration

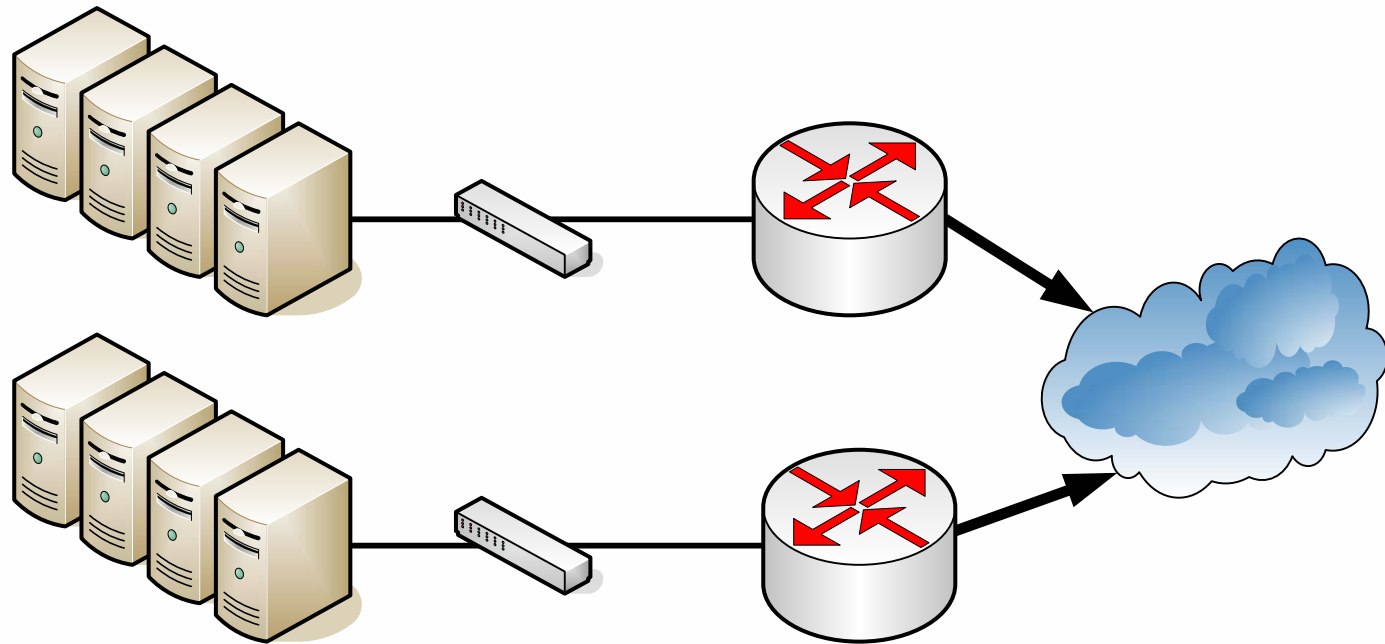


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Plans @ CERN for SC2

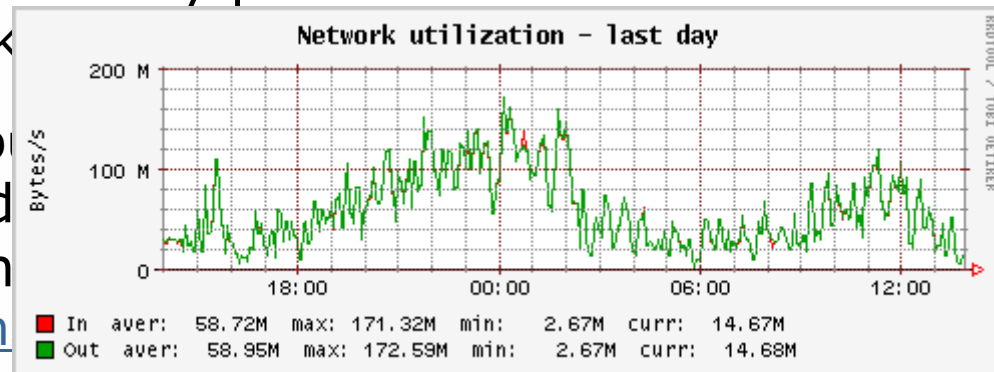
2

CASTORGRID – topology

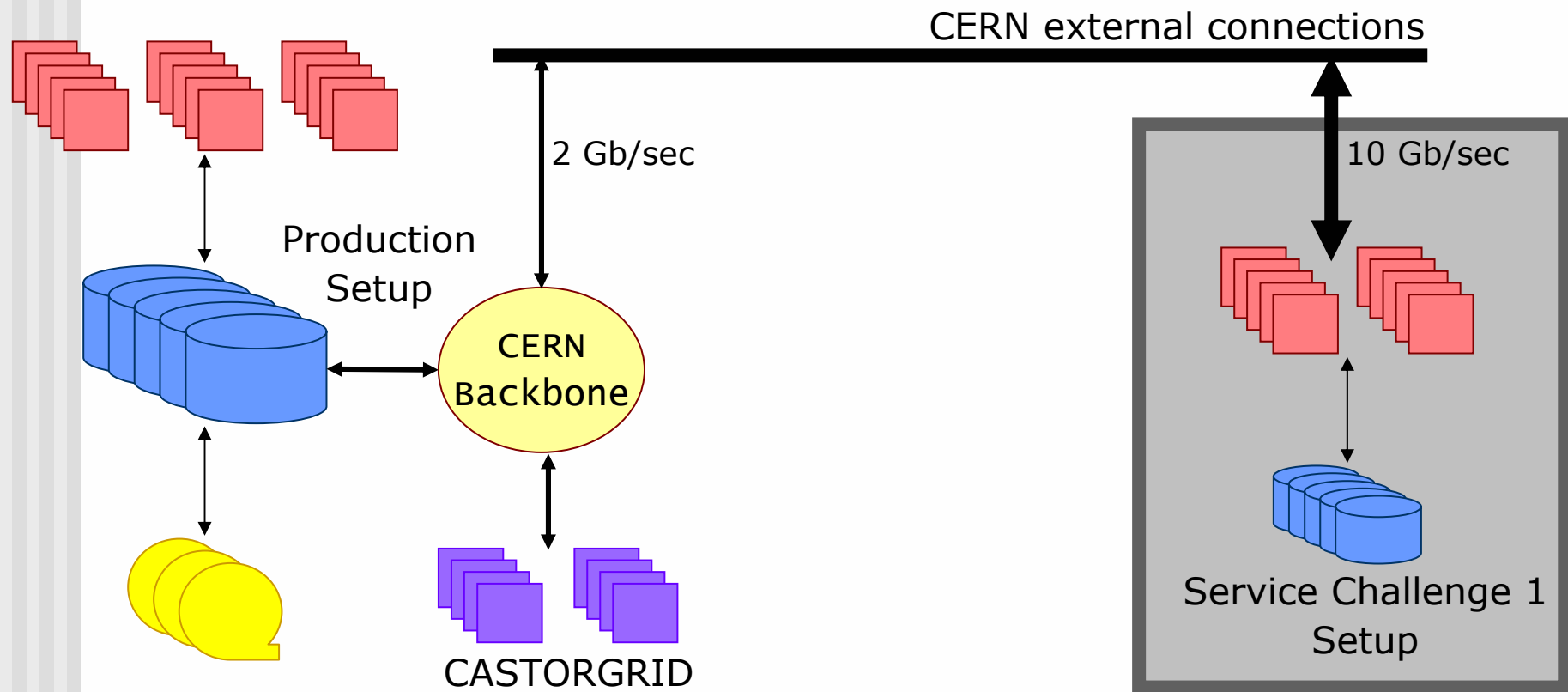


CASTORGRID – description

- Main WAN data transfer entry point to CERN
- 😊 Load balanced services
 - GridFTP (castor_gridftp_server-VDTALT1.1.8-13e)
 - SRM (SRM-1.2.12-0)
- 8 dual CPU IA-32 nodes (2 GB RAM, Xeon 2.8 GHz)
 - Running Scientific Linux CERN 3.0.3
 - 😊 Installed with [quattor](#)
 - 😊 Monitored with [Lemon](#)
- 😞 2 x 1 Gbit/sec connectivity per 4 nodes
 - Special high network firewall)
 - OK for production, b
- 😊 Operations covered
- Proper trouble trackin
 - [Wan-Data.Operation](#)



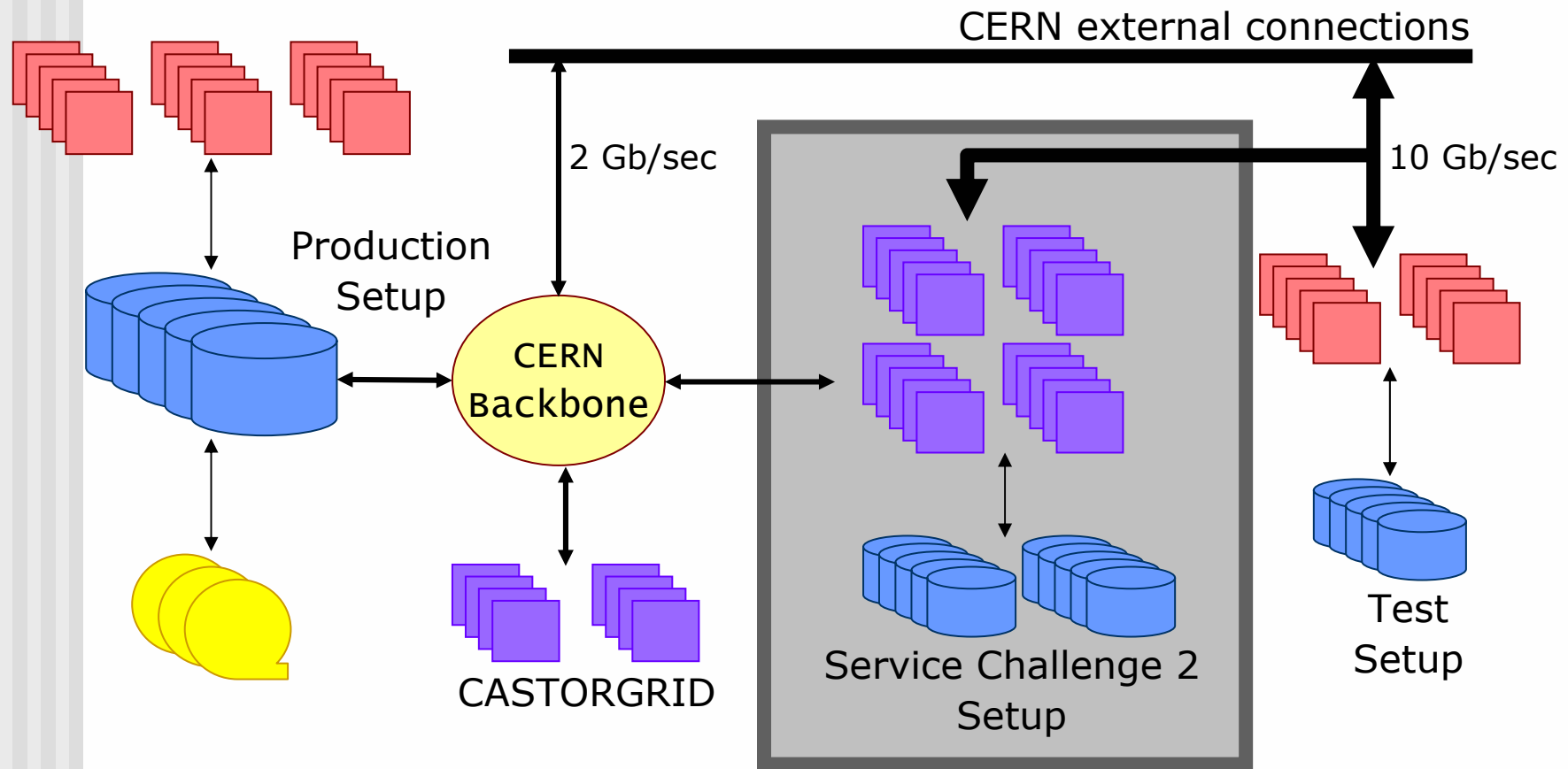
Current configuration



Service Challenge 1 setup

- Built to test the principles
- 10 dual CPU (Itanium) IA-64 nodes
 - Running Scientific Linux CERN 3
 - ☹ Non-standard install
 - ☹ Specific monitoring
- ☹ Not load balanced services
 - GridFTP
 - SRM
- 😊 10 Gb connectivity
 - 2 network interfaces
 - Direct external network connections to Tier-1s
 - Would be sufficient for SC2

Current configuration



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Plans @ CERN for SC2

Service Challenge 2 setup

- Production like configuration
- Sufficient network throughput
- 😊 10 Gb [OpenLab](#) connectivity
 - 2 network interfaces
- 20 dual CPU IA-32 nodes (2 GB RAM, Xeon 2.8 GHz)
 - Running Scientific Linux CERN 3.0.3
 - 😊 Fully [quattor](#)-ized
 - 😊 Complete [Lemon](#) monitoring
- 😊 Standard services
 - GridFTP (castor_gridftp_server-VDTALT1.1.8-13e)
 - SRM (SRM-1.2.12-0)
- 😊 24/7 operational support and alarm handling
- Initially will use local disk but will have access to HSM system (CASTOR)

Conclusion

- With SC2 – emphasis is on getting as close to production setup as possible
- Use [OpenLab](#) network until special network setup connecting CERN with GEANT is in place
 - Q3 2005

Thank you

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