

Warmup Labs

Optimize cost Simple Workloads

- Chose one of the SPECCPU2017 speed/rate apps and determine the optimal architecture to run it on GCE, Azure, AWS, etc...
- Minimize \$/performance. The analysis can be cross-providers
- Documentation available at:
 - ◆ <https://www.spec.org/cpu2017/Docs/>
 - ◆ <https://www.spec.org/cpu2017/Docs/runcpu.html>
- Benchmark available at (already decompressed).
 - ◆ <https://www.ce.unican.es/AIC/spec17.tar.gz>
 - ◆ alumno / alu_AIC

Optimize Cost Complex Workloads

- ▣ Repeat previous task with SpecWeb2005
- ▣ This can be a multimode solution
- ▣ I/O can have also a significant impact
- ▣ It's recommended to use an old distro (Debian9). It works with Debian10 but requires some tinkering with PHP.
- ▣ Documentation available at
 - ◆ https://www.spec.org/web2005/docs/users_guide.html
- ▣ Benchmark available at (already decompressed).
 - ◆ http://www.ce.unican.es/%7evpuente/SVS/SPECweb2005_ins.tar.bz2

Simplify deployment of Complex workload

- ▣ Use containers to simplify SPECWeb2005 and SPECJbb2005 GCE deployment
 - ◆ Don't use pre-generated container images (i.e. use DOCKERFILES)
 - ◆ Use **Orchestration** tools if possible
 - ◆ <http://www.ce.unican.es/%7evpuente/SVS/SPECjbb2005.tar.gz>