MAELSTROM
E4 HPC cluster 2022

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V.1.1

New Front-End and Cluster

Tensor Flow fixed version already available on ARMIDA

After VPN connection established you can reach:

- **Arm** Frontend: **172.18.16.70** (tlnode01.e4red) Armida Cluster
- **Intel** Frontend: **172.18.19.216** (ilnode01.e4red) Cervia Cluster
- **AMD** Frontend: **172.18.16.79** (alnode01.e4red) Punta Marina Cluster

A wiki (still under construction) is available at

http://172.18.16.119:8004/

AMD GPU available from march '22

AMD

- 1 login node: alnode01.e4red
- 4 worker node: awnode0[1-4]

Core(s) per socket	16
Socket(s)	2
Model name:	AMD EPYC 7313 16-Core Processor
Memory GB	256
O.S.	Red Hat Enterprise Linux release 8.5 (Ootpa)

Intel (1)

- 1 login node: ilnode01.e4red
- 8 worker node: iwnode0[1-4] online and iwnode[9-12] temporary offline (no Infiniband available)

Core(s) per socket	28
Socket(s)	2
Model name:	Intel(R) Xeon(R) Gold 6330 CPU @ 2.00GHz
Memory GB	256
O.S.	Red Hat Enterprise Linux release 8.5 (Ootpa)

Intel (2)

- 1 login node: ilnode01.e4red
- 2 worker node: icnode0[1-2]

Core(s) per socket	16
Socket(s)	2
Model name:	Intel(R) Xeon(R) Gold 6326 CPU @ 2.90GHz
Memory GB	512
O.S.	Red Hat Enterprise Linux release 8.5 (Ootpa)
GPU	A100

How To Use The Clusters

- Request The E4 VPN (How-to already available)
- Re-submit account request for the new cluster via E4 customer portal: https://service.e4company.com/servicedesk/customer/portals click on (E4 R&D Lab portal) and provides the Project name in the request.
- Use Slurm to submit Jobs (rember to load the slurm module)
- Put your data in /data/maelstrom (1 TB NFS filesystem from NAS)
- Install all SW in your shared /home or /opt/share/maelstrom
- Power Meter available on demand
- For any issues open a ticket to: https://service.e4company.com/servicedesk/customer/portal/7/create/99
- Each system can be taken offline for maintenance with minimal notice