

Egypt Grid

Work Package Three

EENP2 project Tier 2 grid node

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ASRT infrastructure



ASRT's Data Center is Containing the following:

- More than 150 server from different brands (i.e., Dell, HP, etc..) provide different services like DNS, Web hosting, Mail hosting, and others.
- More than 50 network device between routers, switches, and firewalls.
- More than 500 Tb storage.
- One Gb/s internet bandwidth.

The data center is equipped with two UPS, two HAC, RFID door system, and fire-fighting systems.

Updating ASRT's Data Center :

- In the end of 2015 the ASRT's new Data center will be finish, where the grid node will be placed.



Current status



ASRT's WP3 Tier 2 data centre:

- **3** racks are installed
- We have **66** CPUs with SL6.
- **9** Data storage with SL6 initialized and configured.
- Install all needed packages on servers
- All servers are connected to the internet and registered on DNS.
- All the machines have the following specs



CPU	Two Quad core processor, Intel(R) Xeon(R) CPU E5345 @ 2.33GHz x86_64 Arch, with 4 M L2 cash
HD	320 Gb
Ram	16 G
Display	(AMD/ATI) ES1000

Current Progress



ASRT has two grid node, one working as tier 3 node and the other one is working as tier 2.

•The tier 3 grid is consisting of 8 servers with 10 Tb storage and 1 Gb/s shared internet connection, the machines is divided as follow:

1. One machine acts as a CE
2. One machine acts as a DPM_MYSQL
3. 9 machines act as a DPM_DISK
4. One machine acts as a BDII
5. One machine acts as a TBDII
6. One machine acts as a squid
7. One machine act as a WN
8. One machine act as a UI

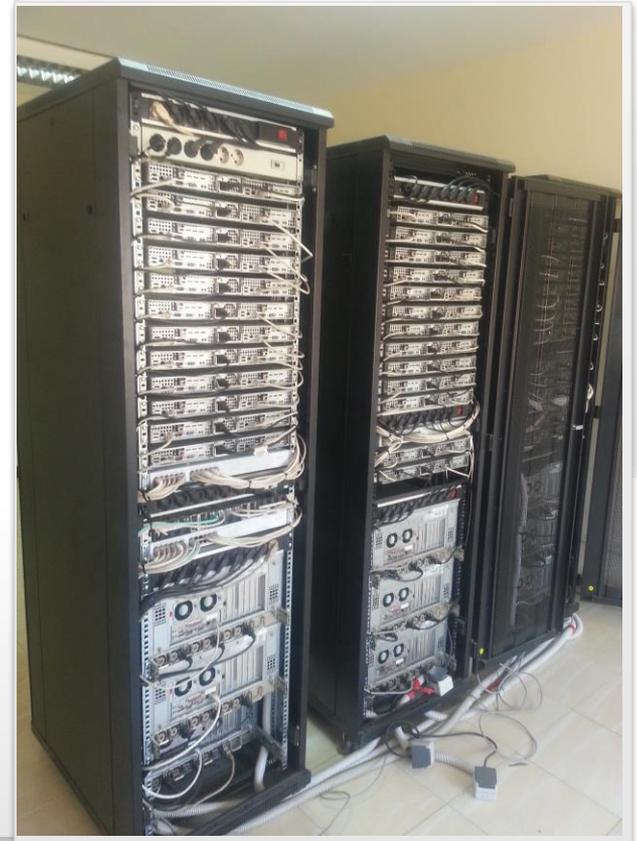


Current Progress



The tier 2 grid is consisting of 80 servers with 90 Tb storage and 1 Gb/s shared internet connection, the machines is divided as follow

1. One machine acts as a CE
2. One machine acts as a DPM_MYSQL
3. Ten machines act as a DPM_DISK.
4. One machine acts as a BDII
5. One machine acts as a MON
6. 66 machines act as a WN



Work in the future



ASRT intend to increase the internet bandwidth to 10 Gb/s where 1 Gb/s will be set for the grid node. Also, the data storage will be increased to 900 Tb.





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THANK YOU!