



CPPM Future

Edith Knoops
ATLAS Cloud FR Workshop
LPNHE 19th June 2012



Hardware: Computer room

Before

Electricity: 400 kw

Cooling:

3 units of 32kW

Air flow in the
floor

UPS:

2 units of 40 kVA

After:

Electricity: 800 kw

done

+ 2 racks water
cooling

+ 1 units 60kva

Hardware

Storage:

9 MD1200 to be installed on existant
R510

CPU : 3 Dell 6100 to be installed

+ 30 k€ to be defined



Network internal

Before

10 Gb Network core

2 Core : 24 ports 10Gb
+ 4 ports 1Gb

3 Switch 48 ports 1Gb
link with core with
2 X 10 Gb

After:

+ 1 core

+ 1 switch

Network

10 Gb/s connection is past now..
T2D hope soon

CERN-PROD	CERN	T0	IN2P3-CPPM	FR	T2	1.56+/-0.45	27	8.30+/-1.78	328	12.37+/-5.29	7
BNL-ATLAS	US	T1	IN2P3-CPPM	FR	T2	0.64+/-0.02	5	3.42+/-0.50	5	4.95+/-1.60	55
FZK-LCG2	DE	T1	IN2P3-CPPM	FR	T2	0.88+/-0.39	6	4.16+/-0.81	5	10.99+/-5.71	5
IN2P3-CC	FR	T1	IN2P3-CPPM	FR	T2	1.15+/-0.95	2287	17.75+/-6.78	467	25.24+/-11.44	4897
INFN-T1	IT	T1	IN2P3-CPPM	FR	T2	1.14+/-1.06	14	12.80+/-3.44	113	7.28+/-0.58	5
NDGF-T1	ND	T1	IN2P3-CPPM	FR	T2	0.74+/-0.36	6	6.23+/-1.42	35	9.20+/-3.00	17
TRIUMF-LCG2	CA	T1	IN2P3-CPPM	FR	T2	0.32+/-0.18	7	1.25+/-0.04	5	1.75+/-0.69	5
pic	ES	T1	IN2P3-CPPM	FR	T2	0.99+/-0.06	5	3.48+/-1.53	5	2.75+/-1.55	5
RAL-LCG2	UK	T1	IN2P3-CPPM	FR	T2	1.27+/-0.40	95	6.73+/-2.73	18	9.77+/-3.02	25
SARA-MATRIX	NL	T1	IN2P3-CPPM	FR	T2	3.39+/-1.14	48	4.62+/-1.05	497	6.10+/-0.29	5
Taiwan-LCG2	TW	T1	IN2P3-CPPM	FR	T2	0.31+/-0.04	5	1.04+/-0.12	5	1.11+/-0.04	5
NIKHEF-ELPROD	NL	T1	IN2P3-CPPM	FR	T2	0.76+/-0.03	5	3.08+/-0.13	5	5.80+/-0.22	5

SrcSite	SrcCloud	SrcTier	DstSite	DstCloud	DstTier	AvgBRS(MB/s)	EvS	AvgBRM(MB/s)	EvM	AvgBRL(MB/s)	EvL
IN2P3-CPPM	FR	T2	CERN-PROD	CERN	T0	1.03+/-0.05	5	2.07+/-0.10	5	2.82+/-0.06	5
IN2P3-CPPM	FR	T2	FZK-LCG2	DE	T1	0.26+/-0.02	5	0.96+/-0.06	5	2.07+/-0.47	5
IN2P3-CPPM	FR	T2	IN2P3-CC	FR	T1	3.50+/-1.42	81	4.21+/-2.09	5	6.59+/-1.48	5
IN2P3-CPPM	FR	T2	INFN-T1	IT	T1	0.84+/-0.04	5	2.19+/-0.08	5	3.82+/-0.23	5
IN2P3-CPPM	FR	T2	TRIUMF-LCG2	CA	T1	0.51+/-0.08	10	1.49+/-0.60	10	1.48+/-0.64	10
IN2P3-CPPM	FR	T2	NIKHEF-ELPROD	NL	T1	0.74+/-0.12	10	3.99+/-1.46	10	13.62+/-1.11	5
IN2P3-CPPM	FR	T2	pic	ES	T1	0.89+/-0.06	5	2.25+/-0.19	5	1.53+/-0.29	5
IN2P3-CPPM	FR	T2	RAL-LCG2	UK	T1	0.41+/-0.04	5	0.68+/-0.14	5	1.45+/-0.07	5
IN2P3-CPPM	FR	T2	SARA-MATRIX	NL	T1	0.73+/-0.63	10	5.77+/-3.05	10	8.30+/-5.49	10
IN2P3-CPPM	FR	T2	Taiwan-LCG2	TW	T1	0.34+/-0.03	5	0.81+/-0.18	5	1.35+/-0.35	5
IN2P3-CPPM	FR	T2	BNL-ATLAS	US	T1	0.69+/-0.04	5	1.46+/-0.05	5	1.44+/-0.03	5
IN2P3-CPPM	FR	T2	NDGF-T1	ND	T1	0.24+/-0.05	5	0.61+/-0.18	5	0.50+/-0.14	5

Network

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CERN-PROD	CERN	T0	IN2P3-CPPM	FR	T2	1.56+/-0.45	27	8.30+/-1.78	328	12.37+/-5.29	7
BNL-ATLAS	US	T1	IN2P3-CPPM	FR	T2	0.64+/-0.02	5	3.42+/-0.50	5	4.95+/-1.60	55
FZK-LCG2	DE	T1	IN2P3-CPPM	FR	T2	0.88+/-0.39	6	4.16+/-0.81	5	10.99+/-5.71	5
IN2P3-CC	FR	T1	IN2P3-CPPM	FR	T2	1.15+/-0.95	2287	17.75+/-6.78	467	25.24+/-11.44	4897
INFN-T1	IT	T1	IN2P3-CPPM	FR	T2	1.14+/-1.06	14	12.80+/-3.44	113	7.28+/-0.58	5
NDGF-T1	ND	T1	IN2P3-CPPM	FR	T2	0.74+/-0.36	6	6.23+/-1.42	35	9.20+/-3.00	17
TRIUMF-LCG2	CA	T1	IN2P3-CPPM	FR	T2	0.32+/-0.18	7	1.25+/-0.04	5	1.75+/-0.69	5
pic	ES	T1	IN2P3-CPPM	FR	T2	0.99+/-0.06	5	3.48+/-1.53	5	2.75+/-1.55	5
RAL-LCG2	UK	T1	IN2P3-CPPM	FR	T2	1.27+/-0.40	95	6.73+/-2.73	18	9.77+/-3.02	25
SARA-MATRIX	NL	T1	IN2P3-CPPM	FR	T2	3.39+/-1.14	48	4.62+/-1.05	497	6.10+/-0.29	5
Taiwan-LCG2	TW	T1	IN2P3-CPPM	FR	T2	0.31+/-0.04	5	1.04+/-0.12	5	1.11+/-0.04	5
NIKHEF-ELPROD	NL	T1	IN2P3-CPPM	FR	T2	0.76+/-0.03	5	3.08+/-0.13	5	5.80+/-0.22	5

SrcSite	SrcCloud	SrcTier	DstSite	DstCloud	DstTier	AvgBRS(MB/s)	EvS	AvgBRM(MB/s)	EvM	AvgBRL(MB/s)	EvL
IN2P3-CPPM	FR	T2	CERN-PROD	CERN	T0	1.03+/-0.05	5	2.07+/-0.10	5	2.82+/-0.06	5
IN2P3-CPPM	FR	T2	FZK-LCG2	DE	T1	0.26+/-0.02	5	0.96+/-0.06	5	2.07+/-0.47	5
IN2P3-CPPM	FR	T2	IN2P3-CC	FR	T1	3.50+/-1.42	81	4.21+/-2.09	5	6.59+/-1.48	5
IN2P3-CPPM	FR	T2	INFN-T1	IT	T1	0.84+/-0.04	5	2.19+/-0.08	5	3.82+/-0.23	5
IN2P3-CPPM	FR	T2	TRIUMF-LCG2	CA	T1	0.51+/-0.08	10	1.49+/-0.60	10	1.48+/-0.64	10
IN2P3-CPPM	FR	T2	NIKHEF-ELPROD	NL	T1	0.74+/-0.12	10	3.99+/-1.46	10	13.62+/-1.11	5
IN2P3-CPPM	FR	T2	pic	ES	T1	0.89+/-0.06	5	2.25+/-0.19	5	1.53+/-0.29	5
IN2P3-CPPM	FR	T2	RAL-LCG2	UK	T1	0.41+/-0.04	5	0.68+/-0.14	5	1.45+/-0.07	5
IN2P3-CPPM	FR	T2	SARA-MATRIX	NL	T1	0.73+/-0.63	10	5.77+/-3.05	10	8.30+/-5.49	10
IN2P3-CPPM	FR	T2	Taiwan-LCG2	TW	T1	0.34+/-0.03	5	0.81+/-0.18	5	1.35+/-0.35	5
IN2P3-CPPM	FR	T2	BNL-ATLAS	US	T1	0.69+/-0.04	5	1.46+/-0.05	5	1.44+/-0.03	5
IN2P3-CPPM	FR	T2	NDGF-T1	ND	T1	0.24+/-0.05	5	0.61+/-0.18	5	0.50+/-0.14	5

ATLAS Activities

Centre de Physique des Particules de Marseille



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Historic view for "panda_queues_all"

from 07:28 16.05.2012 to 07:28 15.06.2012

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PANDA queue	SITE Name	TIER	CLOUD	History plot time bin = 60 hours	offline		brokeroff		online		NoQueue		test	
					%	count	%	count	%	count	%	count	%	count
ANALY_BEIJING	BEIJING-LCG2	T2D	FR		0	0	0	0	93.03	7	0	0	6.97	7
ANALY_CPPM	IN2P3-CPPM	T2	FR		0	0	0	0	99.93	3	0	0	0.07	1
ANALY_GRIF-IRFU	GRIF-IRFU	T2	FR		10.43	1	0	0	83.17	15	0	0	6.4	14
ANALY_GRIF-LAL	GRIF-LAL	T2D	FR		0	0	0	0	77.9	4	0	0	22.1	3
ANALY_GRIF-LPNHE	GRIF-LPNHE	T2D	FR		0	0	0	0	99.56	3	0	0	0.44	2
ANALY_IN2P3-CC	IN2P3-CC	T1	FR		0	0	0	0	99.63	2	0	0	0.37	1
ANALY_IN2P3-CC-T2	IN2P3-CC-T2	T2	FR		0	0	0	0	99.63	2	0	0	0.37	1
ANALY_IN2P3-CC-T2_RD	IN2P3-CC-T2	T2	FR		0	0	0	0	96.98	3	0	0	3.02	2
ANALY_LAPP	IN2P3-LAPP	T2D	FR		0	0	0	0	99.68	3	0	0	0.32	1
ANALY_LPC	IN2P3-LPC	T2D	FR		0	0	0	0	100	2	0	0	0	0
ANALY_LPSC	IN2P3-LPSC	T2D	FR		1.99	1	0.56	1	90.47	5	0	0	6.98	4
ANALY_ROMANIA02	RO-02-NIPNE	T2	FR		0	0	0	0	86.17	8	0	0	13.83	7
ANALY_ROMANIA07	RO-07-NIPNE	T2	FR		0	0	0	0	96.74	8	0	0	3.26	7

2 service warnings