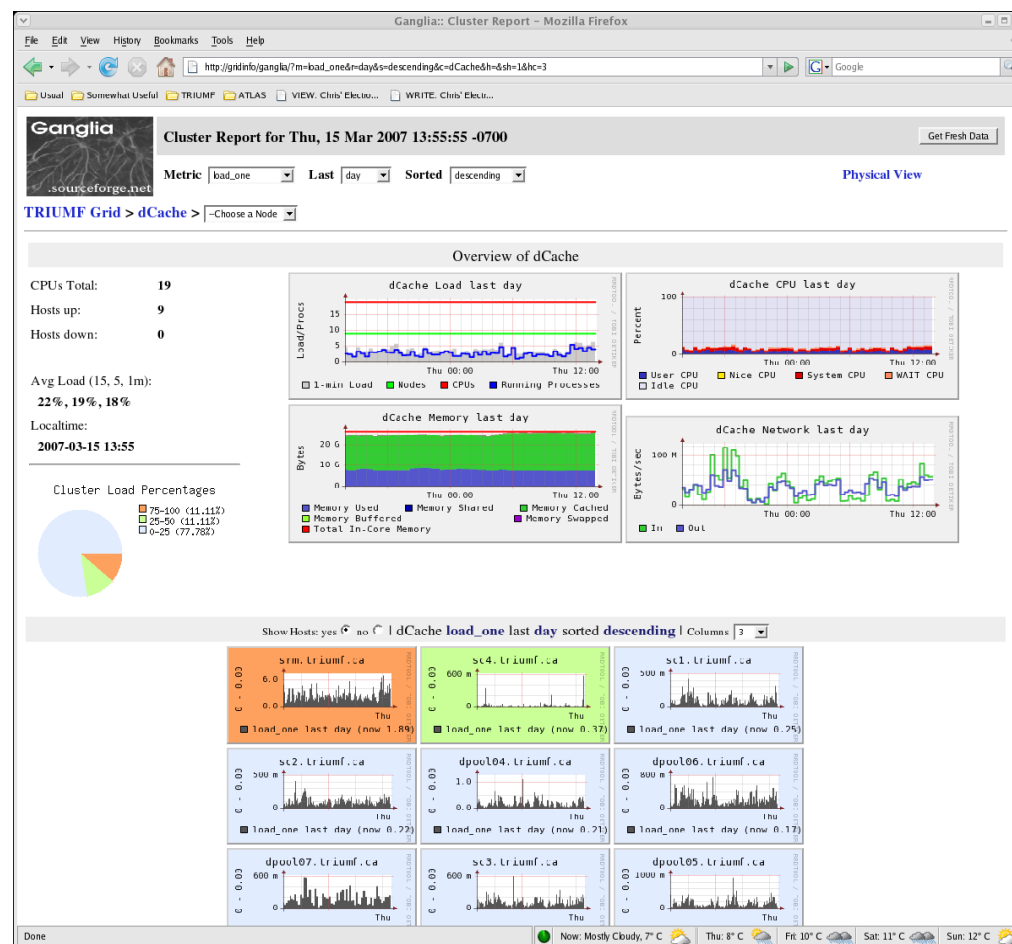




Overall Site Monitoring - Ganglia

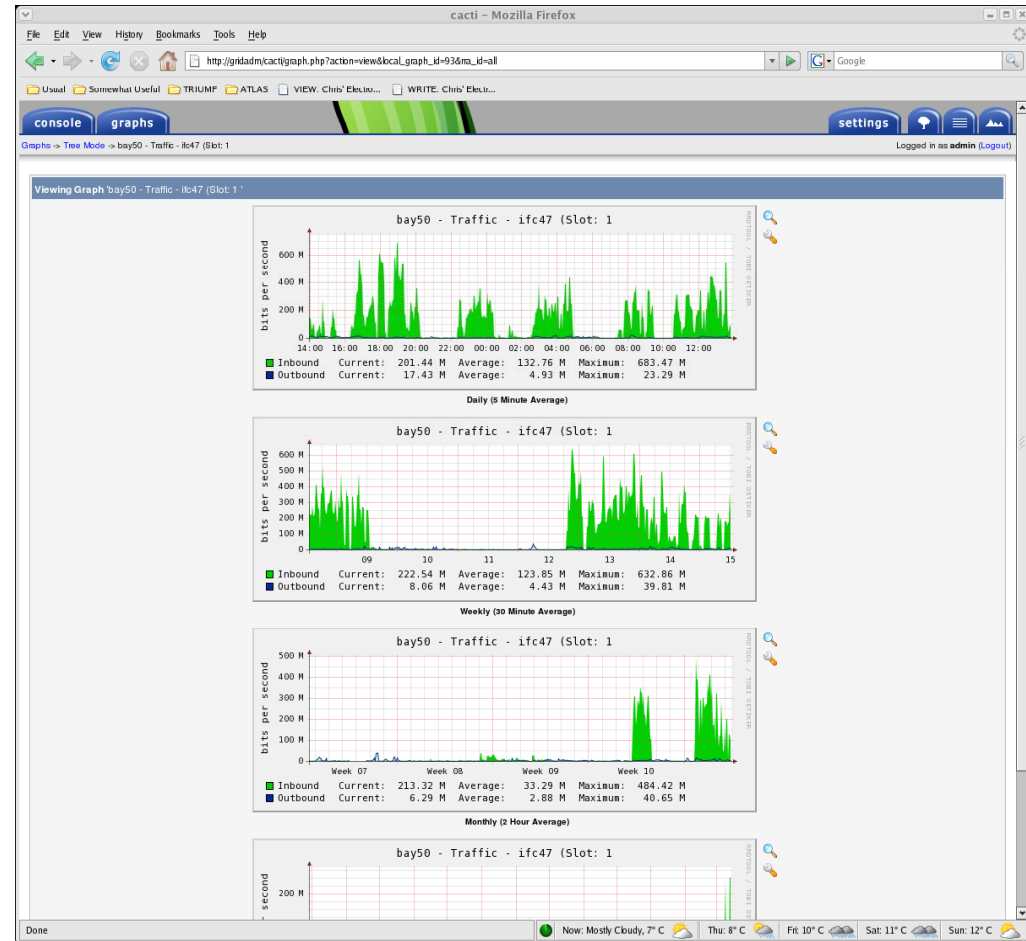
- Overall site monitoring using Ganglia distributed monitoring system
- Hosts grouped logically
- Provides good overview of systems
- <http://ganglia.sourceforge.net/>





Traffic Volume Monitoring - Cacti

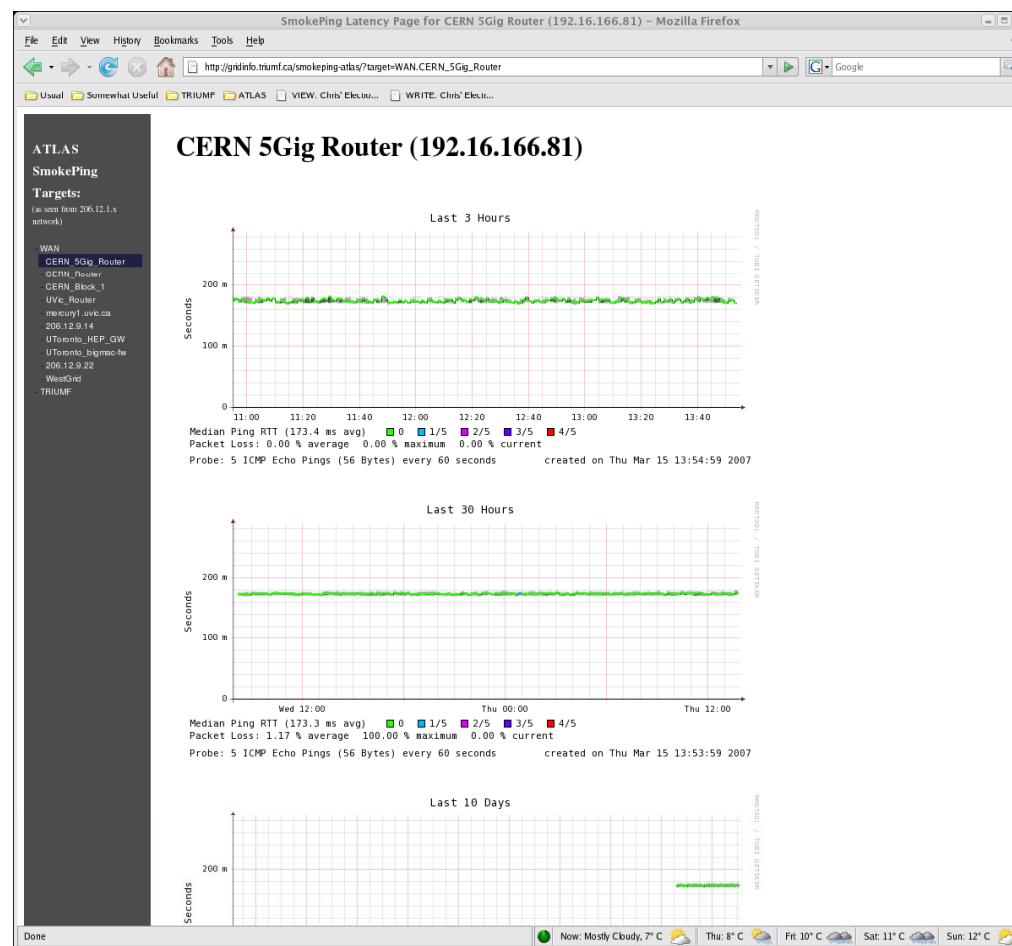
- Traffic volume monitoring using cacti
- Statistics obtained via SNMP query of network equipment
- <http://cacti.net/>





Network Latency Monitoring - smokeping

- Network Latency Monitoring using smokeping
- Tracks packet loss and network latency
- Configured to send email alerts for major packet loss
- <http://oss.oetiker.ch/smokeping/>



Chris Payne
March 2007

3D Workshop - Monitoring
Tools for the 3D environment





Overall Service Monitoring - nagios

- Overall service monitoring using nagios
- Configured to verify services periodically
- Configured to send email alerts for major issues
- <http://www.nagios.org/>

Current Network Status
Last Updated: Thu Mar 15 14:17:30 PDT 2007
Updated every 90 seconds
Nagios® - www.nagios.org
Logged in as *itteam*

Host Status Totals

Up	Down	Unreachable	Pending
81	0	0	0

Service Status Totals

OK	Warning	Unknown	Critical	Pending
165	1	0	1	0

Service Overview For All Host Groups

Dell Workers (Dell-Workers)

Host	Status	Services	Actions
wn010	UP	1 OK	
wn011	UP	2 OK	
wn012	UP	1 OK	
wn013	UP	1 OK	
wn014	UP	3 OK	
wn015	UP	1 OK	
wn016	UP	1 OK	
wn017	UP	3 OK	
wn018	UP	1 OK	
wn019	UP	2 OK	

IBM Workers (IBM-Workers)

Host	Status	Services	Actions
wn020	UP	1 OK	
wn021	UP	2 OK	
wn022	UP	1 OK	
wn023	UP	1 OK	
wn024	UP	3 OK	
wn025	UP	1 OK	
wn026	UP	1 OK	
wn027	UP	3 OK	
wn028	UP	1 OK	
wn029	UP	3 OK	
wn030	UP	1 OK	
wn031	UP	1 OK	
wn032	UP	2 OK	
wn033	UP	3 OK	

Oracle RAC Nodes (Oracle-Nodes)

Host	Status	Services	Actions
tr-ora	UP	2 OK	
tr-ora2	UP	4 OK	
tr-ora3	UP	2 OK	

DCache Pool Nodes (Pool-Nodes)

Host	Status	Services	Actions
dpc004	UP	3 OK	
dpc005	UP	3 OK	
dpc006	UP	3 OK	
dpc007	UP	3 OK	

LCG Service Nodes (Service-Nodes)

Host	Status	Services	Actions
lsc	UP	5 OK	
lsc01	UP	8 OK	
lsc02	UP	5 OK	
lsc	UP	5 OK	

IBM Pizza Worker (ibm_pizza_worker)

Host	Status	Services	Actions
wn001	UP	3 OK	
wn002	UP	3 OK	
wn003	UP	3 OK	
wn004	UP	3 OK	



Status of Monitoring

- **Completed**

- Local System resource usage and problem alerts
- Bulk Traffic Rates
- Network Latency

- **To Be Completed**

- Real Time Route Verification and Alarms
- Traffic Rates by Traffic Type