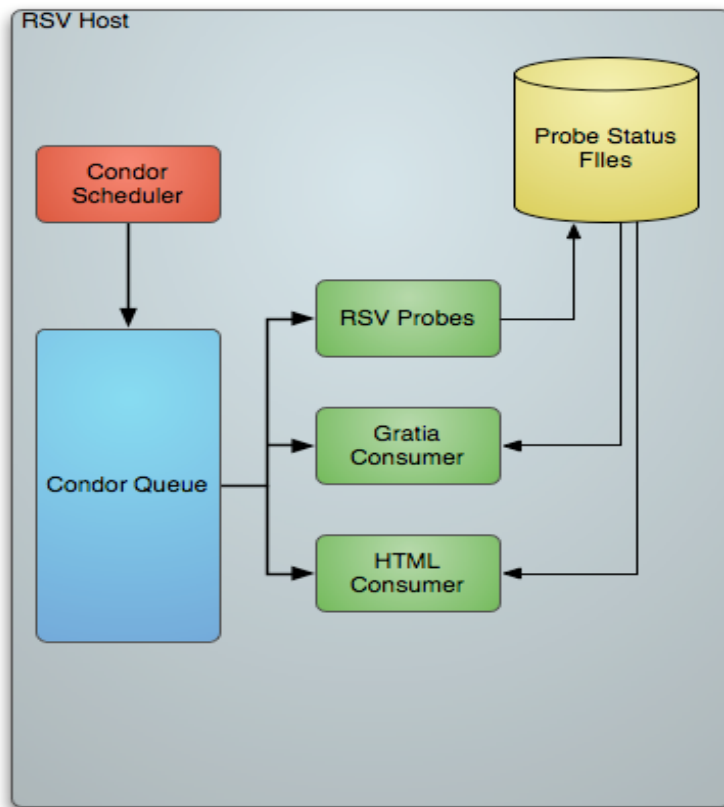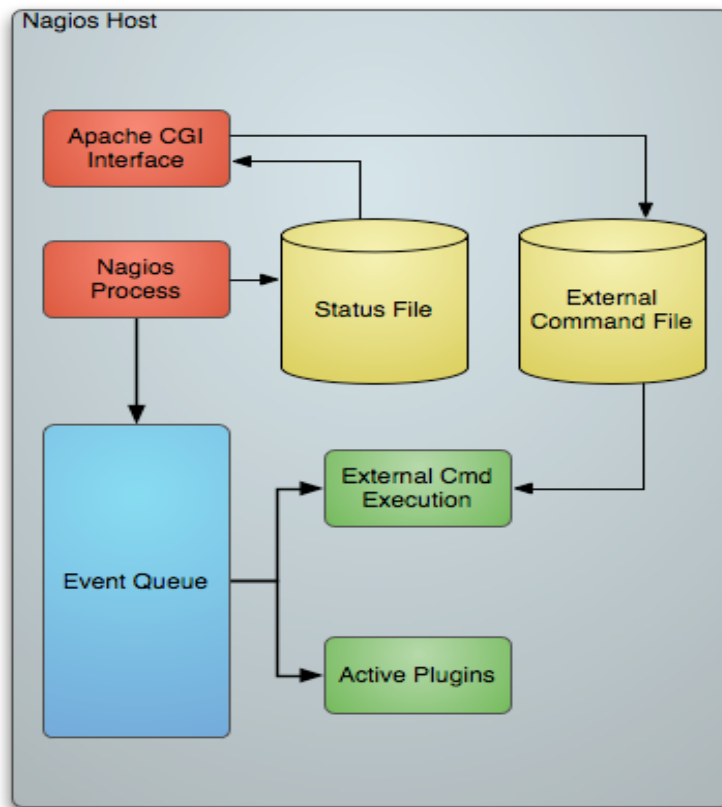# RSV/Nagios Integration
## Sarah Williams
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RSV Model

- Producer/Consumer model
- RSV Probes produce run tests, store results in status files
- Consumers read status files and write webpage, send information to Gratia servers, etc.
- Scheduling is handled by Condor

Nagios Model

- Nagios queue contains two types of jobs - active plugins, and commands from the External Command file
- Active plugins run tests, pass results to Nagios process, which updates the status file and sends out alerts
- Passive plugins work by sending an update status command to the External Command file
- One way to update the External Command File is through the CGI Interface
- Other methods - NRPE, NCSA

How They Communicate
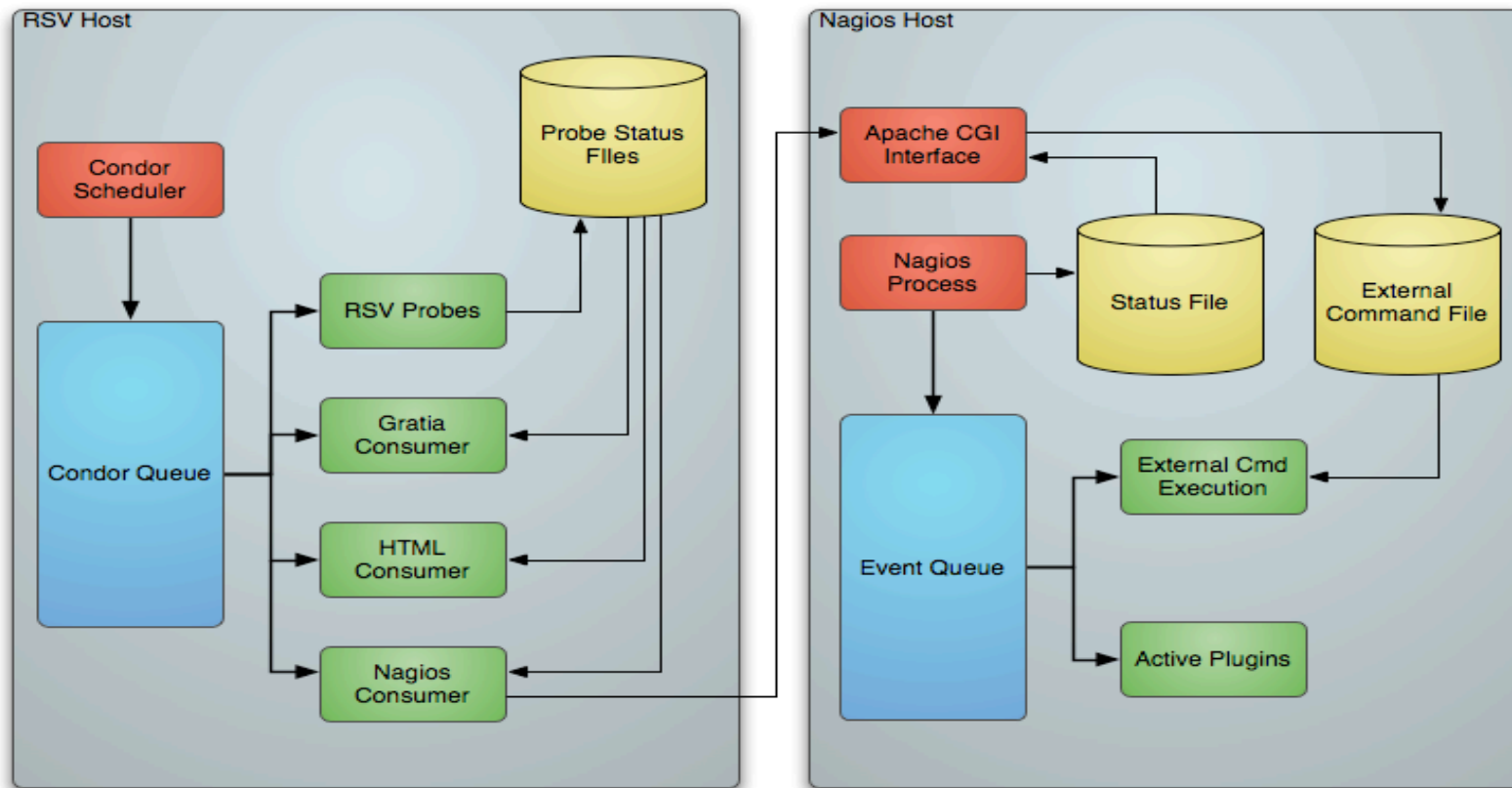
Demo

Host Status Totals

Up	Down	Unreachable	Pending
1	0	0	0

All Problems	All Types
0	1

Service Status Totals

Ok	Warning	Unknown	Critical	Pending
17	0	2	1	0

All Problems	All Types
3	20

Service Status Details For Host 'iut2-grid2'

Host	Service	Status	Last Check	Duration	Attempt	Status Information
iut2-grid2	LOCALDISKUSAGE	OK	02-29-2008 15:13:32	57d 23h 5m 15s	1/3	OK: 1 mountpoints are ok.
	NFS	OK	02-29-2008 15:13:43	380d 23h 39m 46s	1/3	OK: RPC program nfs version 2 version 3 version 4 udp running
	PING	OK	02-29-2008 15:15:52	514d 1h 29m 21s	1/3	PING OK - Packet loss = 0%, RTA = 0.04 ms
	RAIDMEGACTRL	OK	02-29-2008 15:11:47	67d 5h 0m 22s	1/3	OK - 2 active drives
	SSH	OK	02-29-2008 15:13:28	468d 22h 3m 38s	1/3	SSH OK - OpenSSH_4.3p2-1.9_test5.cern-hpn (protocol 2.0)
	org.osg.batch.jobmanager-condor-status	OK	02-29-2008 14:20:16	6d 22h 49m 34s	1/3	A test job was succesfully submitted to "iut2-grid6.iu.edu/jobmanager-condor", its status when last checked was a valid one ("PENDING"): and finally the test job was succesfully cleaned up!EOT
	org.osg.batch.jobmanager-fork-status	OK	02-29-2008 14:34:46	9d 0h 24m 1s	1/3	A test job was succesfully submitted to "iut2-grid6.iu.edu/jobmanager-fork", its status when last checked was a valid one ("ACTIVE"): and finally the test job was succesfully cleaned up!EOT
	org.osg.batch.jobmanager-loadleveler-status	UNKNOWN	02-29-2008 14:33:13	6d 22h 49m 33s	3/3	Job manager "iut2-grid6.iu.edu/jobmanager-loadleveler" appears to be not supported by the CE being probed. Bailing now...EOT
	org.osg.batch.jobmanager-lsf-status	UNKNOWN	02-29-2008 14:47:29	9d 0h 11m 2s	3/3	Job manager "iut2-grid6.iu.edu/jobmanager-lsf" appears to be not supported by the CE being probed. Bailing now...EOT
	org.osg.batch.jobmanager-managedfork-status	OK	02-29-2008 14:30:53	6d 22h 49m 33s	1/3	A test job was succesfully submitted to "iut2-grid6.iu.edu/jobmanager-managedfork", its status when last checked was a valid one ("PENDING"): and finally the test job was succesfully cleaned up!EOT
	org.osg.batch.jobmanager-pbs-status	OK	02-29-2008 14:58:07	6d 22h 49m 33s	1/3	A test job was succesfully submitted to "iut2-grid6.iu.edu/jobmanager-pbs", its status when last checked was a valid one ("ACTIVE"): and finally the test job was succesfully cleaned up!EOT
	org.osg.batch.jobmanagers-available	OK	02-29-2008 14:59:10	4d 0h 11m 24s	1/3	Available Batch Schedulers are condor.pm fork.pm managedfork.pm pbs.pmEOT
	org.osg.certificates.cacert-expiry	OK	02-29-2008 14:11:47	6d 22h 49m 35s	1/3	87 CA certs found: all valid for at least 168 hours!EOT