



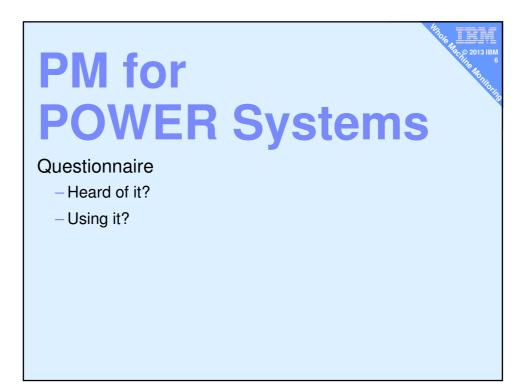
- 1. Performance Management (PM) for Power Systems
- 2. IBM Tivoli Monitoring (ITM)
- 3. topas -C and topasrec
- 4. LPAR2rrd from Pavel

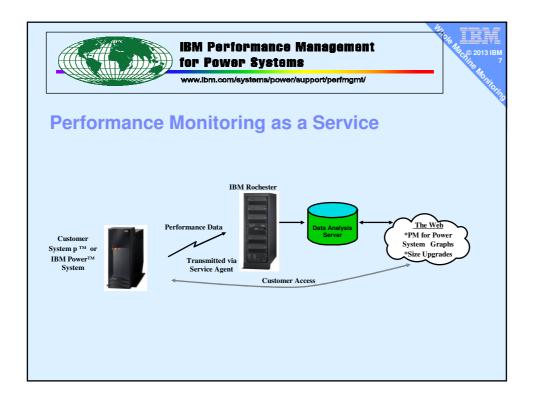
(ex-IBMer)

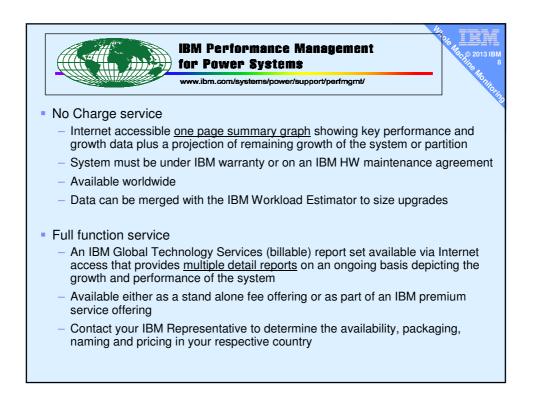
5. HMCscanner from Frederico

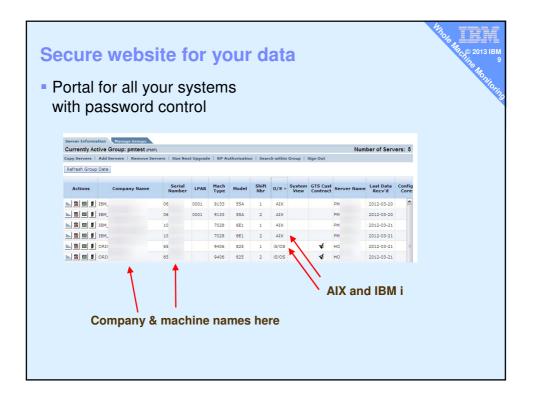
(IBMer)

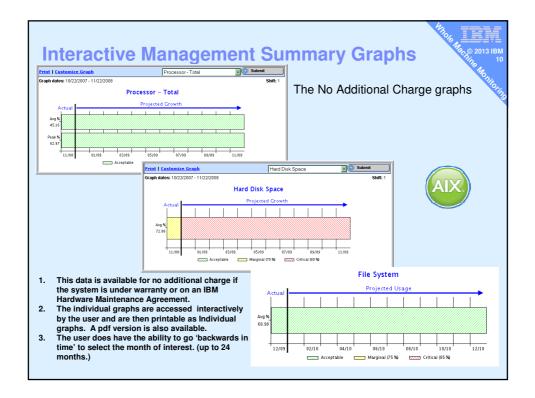
- 6. nmon2[rrd|web] from Nigel & Bruce (IBMer)
- 7. Ganglia for POWER from Michael (IBMer)
- 8. 3rd party and RDBMS tools
- 9. HMC extract and generate
- 10. nmon for Linux improvements
- 11. Performance Data Investigator for IBM i

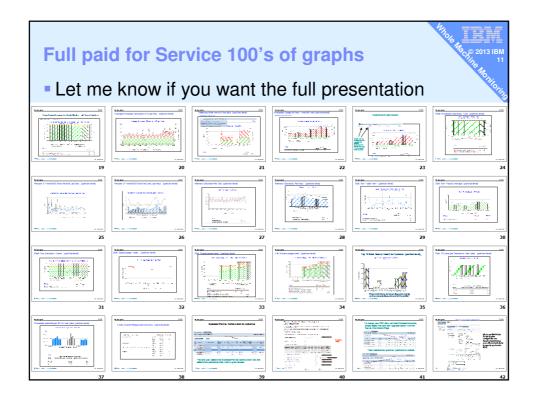


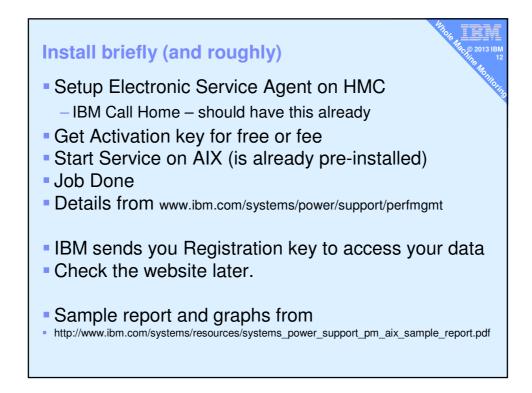












PM for POWER

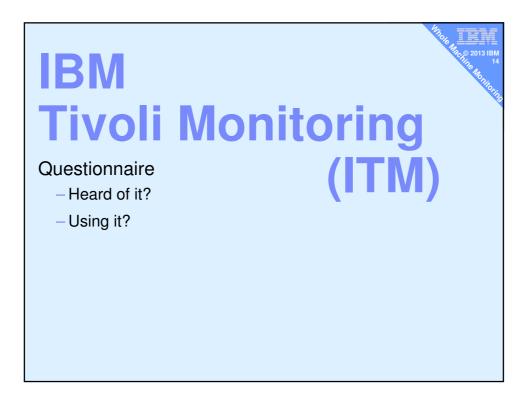
Good

- AIX, IBM i supported (originally from IBM i team)
- No longer massive software installed
- Uses HMC to transfer data to IBM
- Works invisibly with no user interaction
- Lots of web based reports, graphs & projections

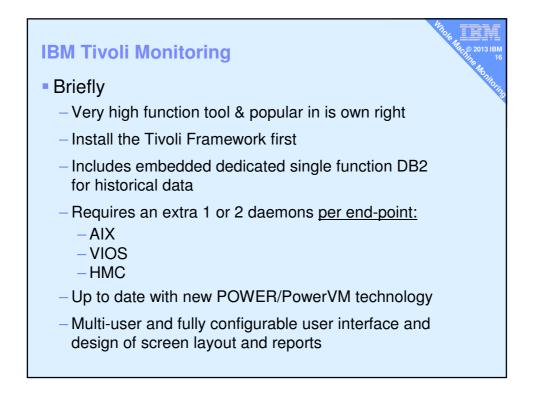
Bad

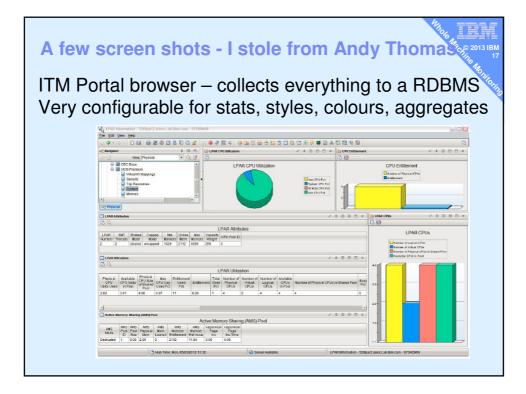
- Costs money per machine
- Tricky to get a list price

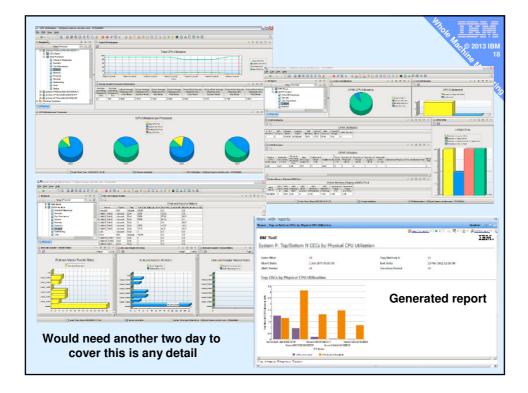
Anyone using another web based service ?











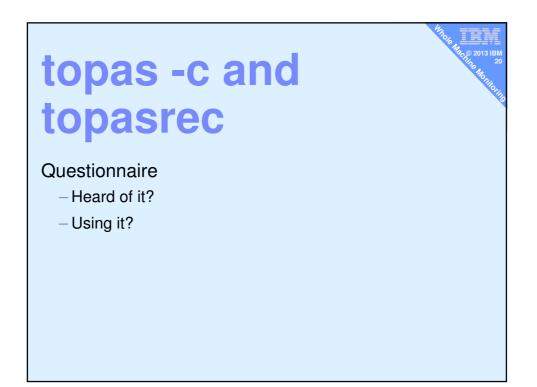
IBM Tivoli Monitoring

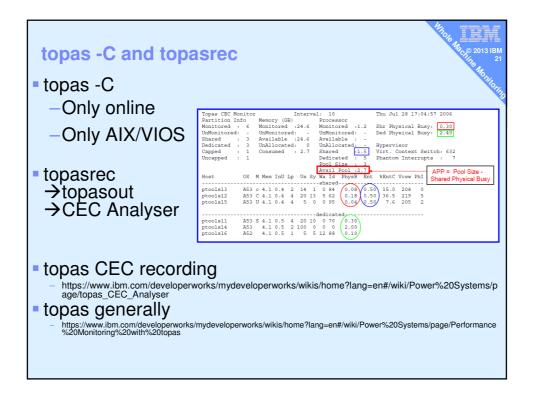
Good

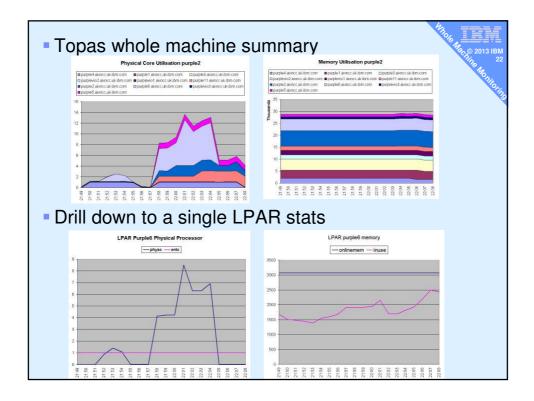
- Current for new POWER/PowerVM features
- Covers everything & non-IBM machines too
- Extremely flexible in presenting data
- Automated report generator

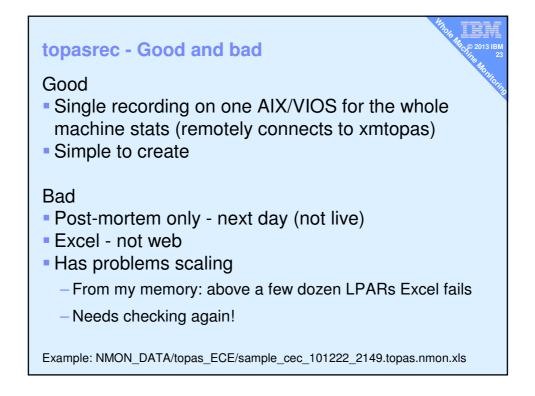
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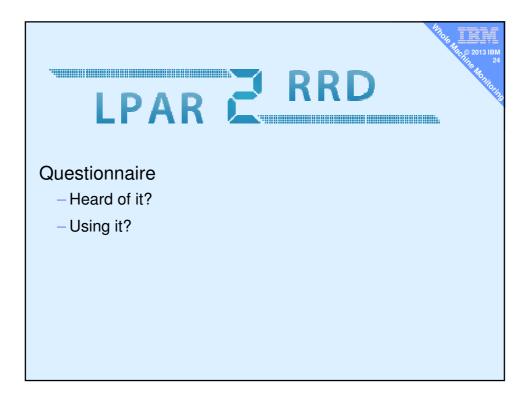
- Costs money per machine
- Needs own LPAR and resources to run
- Installing daemons everywhere
- Needs time/training to get the full benefit because it is so flexibly (good)

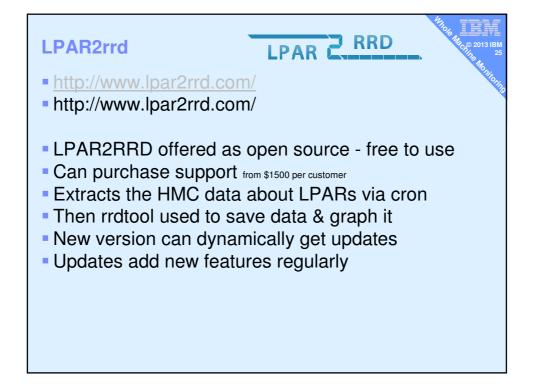


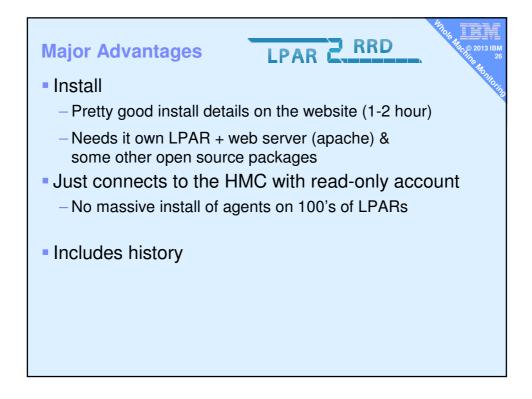


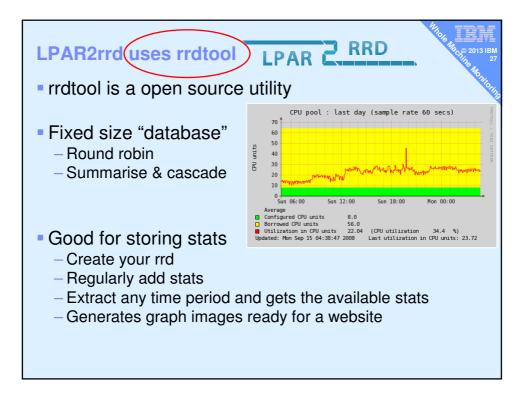


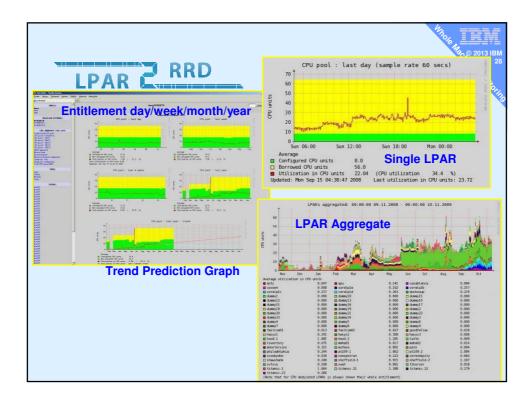




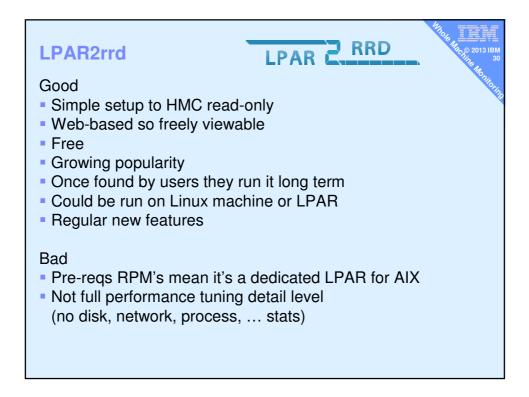


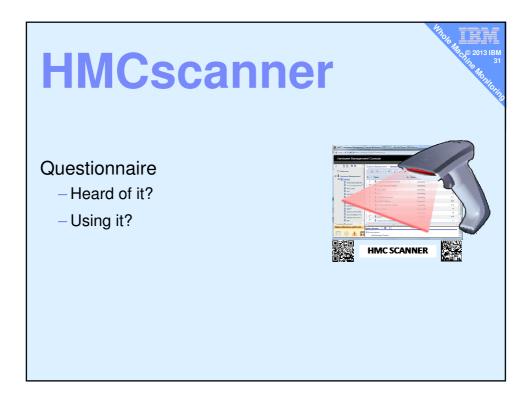


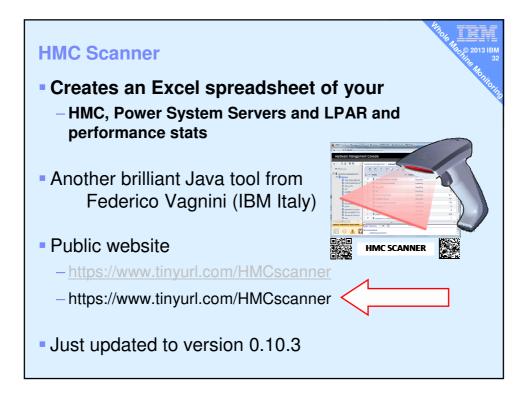


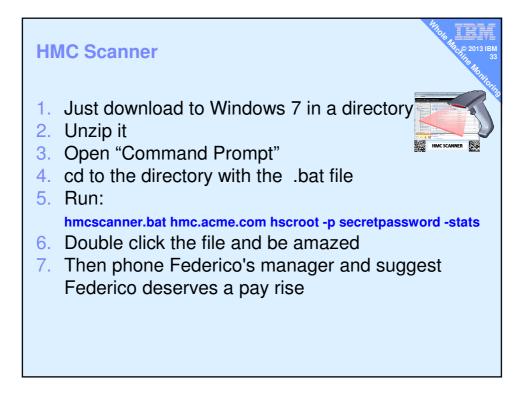


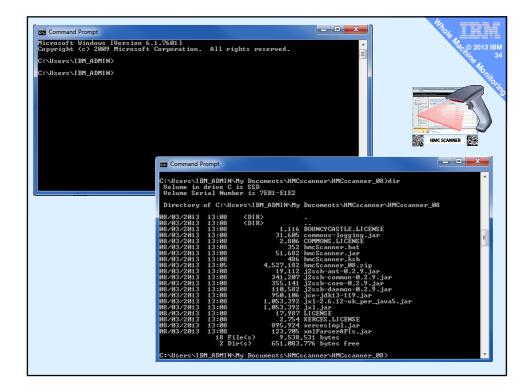


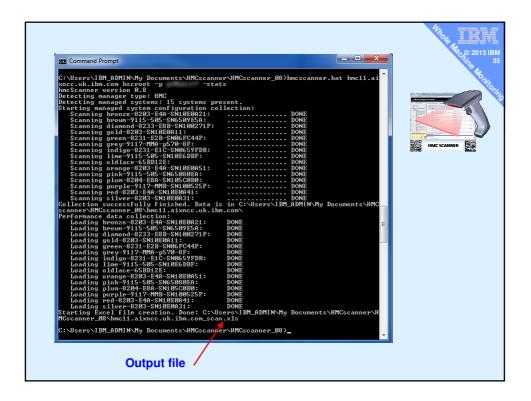












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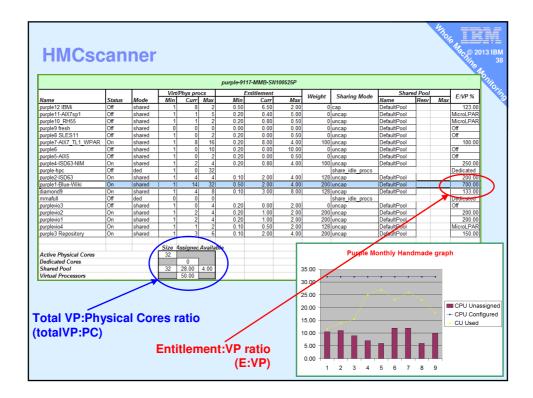
HMC Scanner

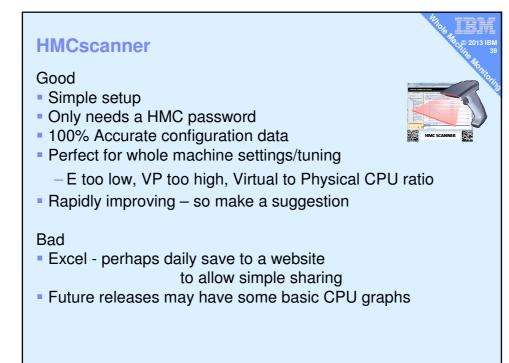


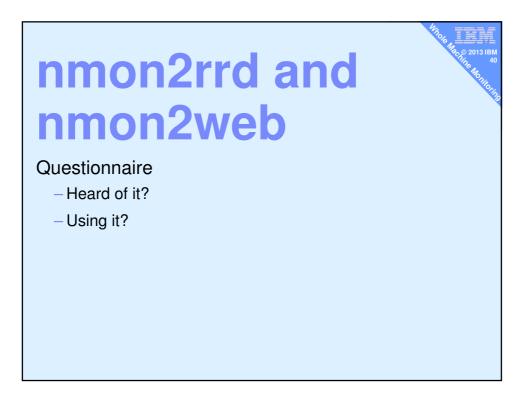
http://tinyurl.com/HMCscanner

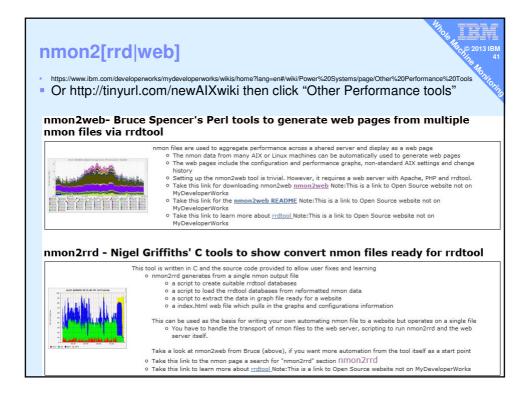
Information is organized in tabs:

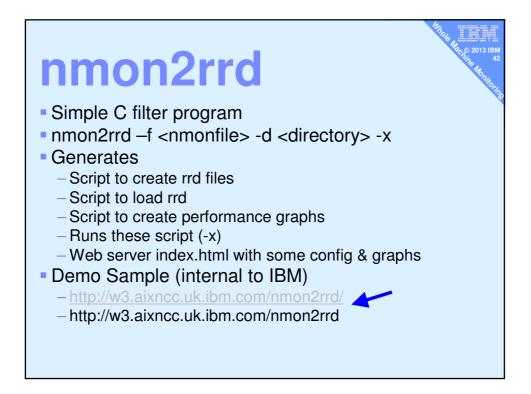
- System summary: name, serial #, cores, RAM, service processor IP for each server
- LPAR Summary: all LPAR by server, status, environment, version, processor mode LPAR CPU: processor configuration of each LPAR
- LPAR MEM: memory configuration of each LPAR
- Physical Slots: with LPAR assignment, description, physical location & drc_index
- Virtual Ethernet: network configuration of each virtual switch and each LPAR
- Virtual SCSI: config of all virtual SCSI adapters, both client and server
- VSCSI Map: devices mapped by each VIOS to partitions
- Virtual Fibre:
 - vFC config of client & server with id of physical adapter assigned
 - SW Cores: LPAR & VP pool config matrix to # of software licenses. easy to read history of CPU usage of each system. **
- CPU Pool Usage:
 - easy to read history of physical RAM assignment to each LPAR.** Sys RAM Usage:
 - LPAR CPU Usage: easy to read history of CPU usage of each LPAR.
- ** Based on last 12 months of Islparutil data.











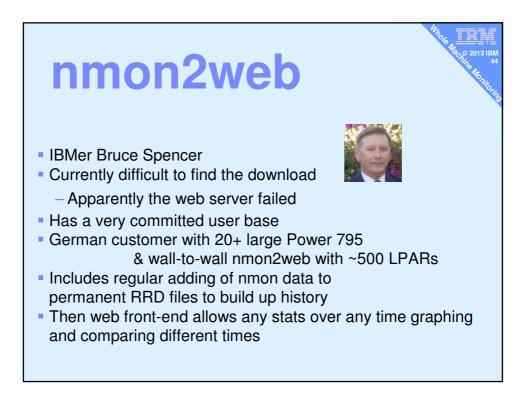
nmon2rrd Good and Bad

Good

- All processing on AIX
- Creates a website for all to access
- Code released as a sample so C programs can do what ever they like.
- Minimal skills: apache, index.html, written in C

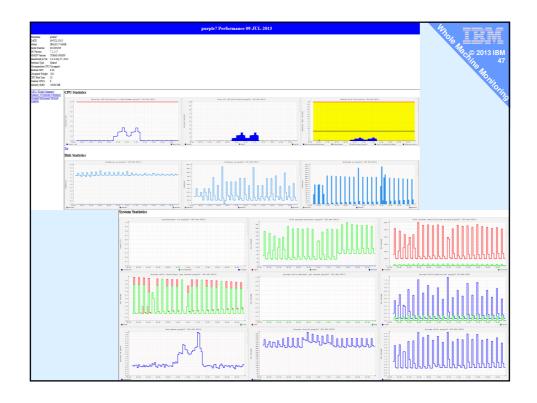
Bad

- Its just the filter
- You have to collect the nmon files, organise hierarchy of machines and days, script etc.
- Post-mortem only

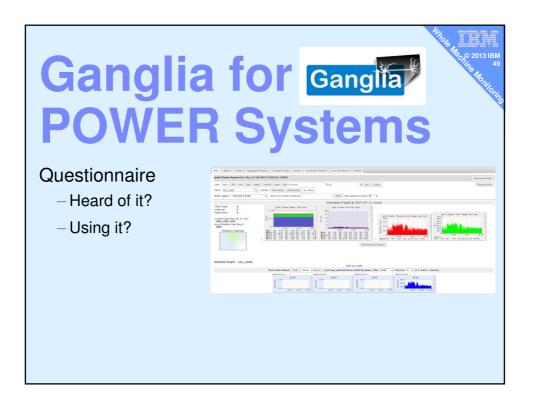


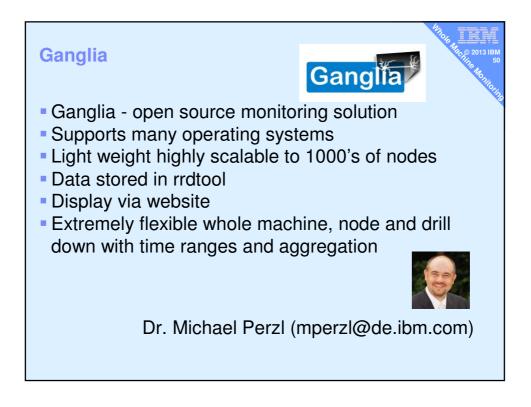


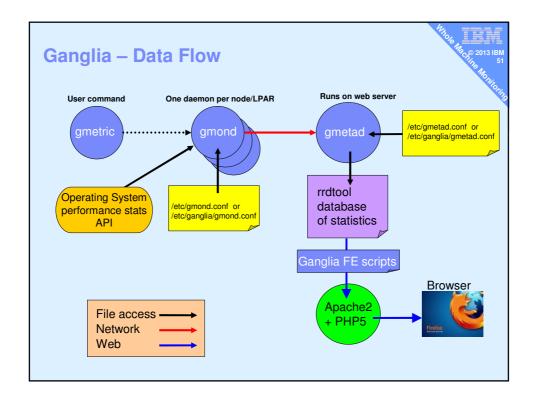
Jser interface – Note: I replaced the log	0 Hange 100 2013
The provided Perl scripts are provided as-is and are not supported by IBM	101
Display a Daily Performance Chart for a Host	
Server Name blue(SN=02100525P, Shared, 20130625 - 20130702)	
Date Jan • 1 • 2013 • Display	
Display Long Term Performance Trends for a Host Server Name blue (02100525P) Display	
Display the Aggregate Utilization on a Partitioned System	
System Serial Number 02100525P -	
Start Date Jan ▼ 1 ▼ 2013 ▼	
End Date Jan • 1 • 2013 • Display	
Servers Ordered by Serial Number (Click Server Name for configuration)	
Serial Number Server Name Partition Type First Record Date Last Record Date mm/dd/yyyy mm/dd/yyyy	
02100525P blue Shared 06/25/2013 07/02/2013	
02100525P purple7 Shared 07/03/2013 07/03/2013	
http://purple7.aixncc.uk.ibm.com/nmon2w	

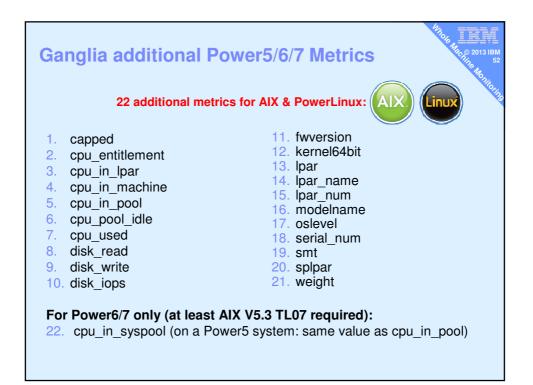


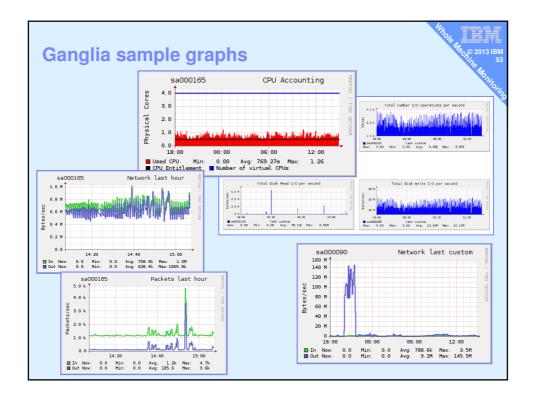
 nmon2web Good nmon2web better for a website repository & building historic data for graphing Free Minimal skills: apache, CGI, written in Perl Flexible: you code it = you got it 	Alto 6 Hap 2013 IBM 48 Hap 10 Hap 10 Hap
 Bad You have to sort out transporting nmon files You are on your own (but its really only 2 scripts) Tells you what happened yesterday or longer ago 	
nmon2rdd = it is only a reformatting filter and everything else is your problem!	

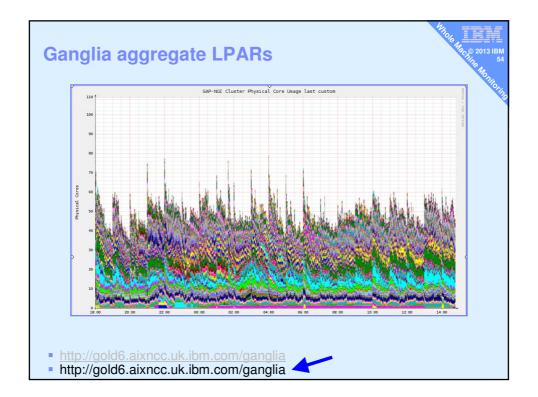


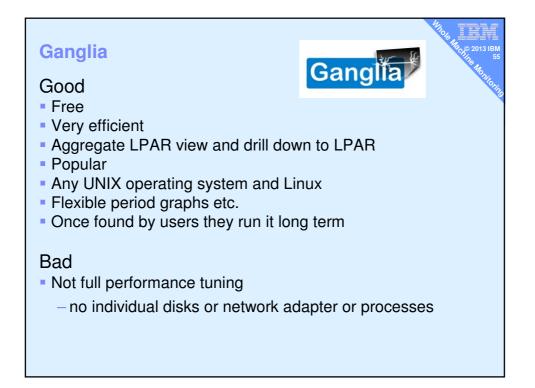


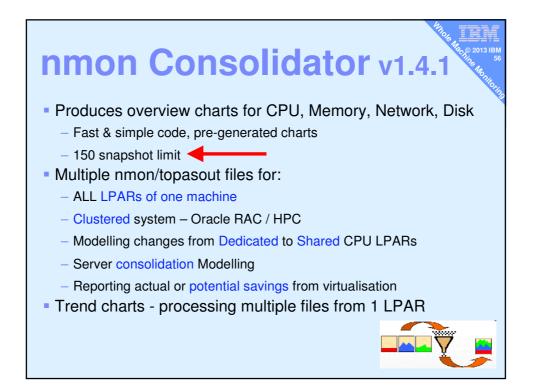


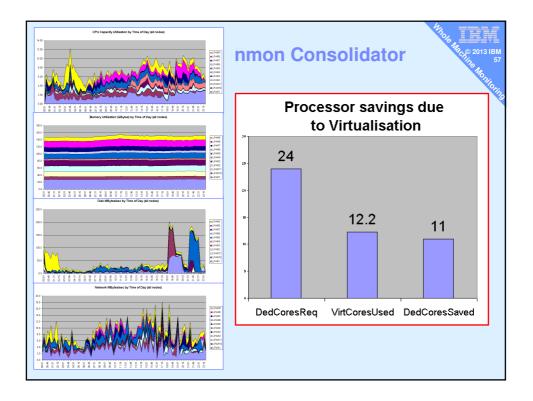


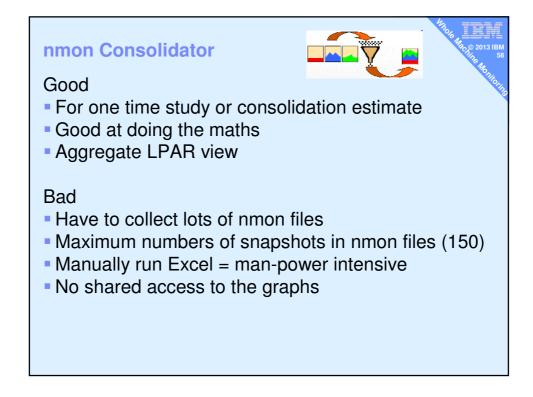


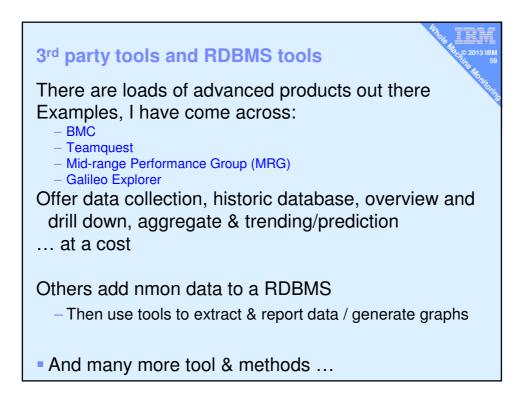


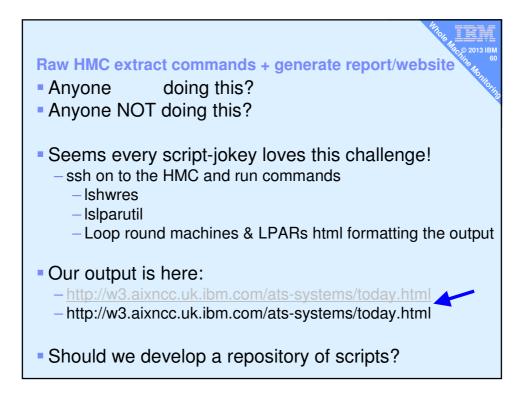


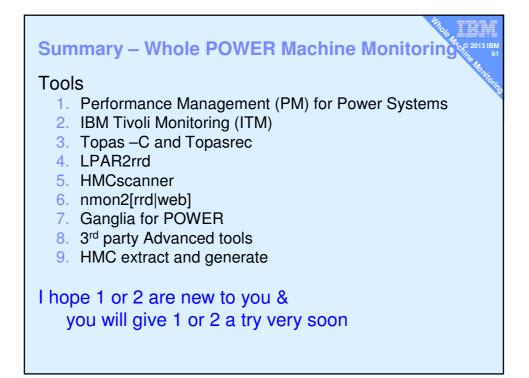


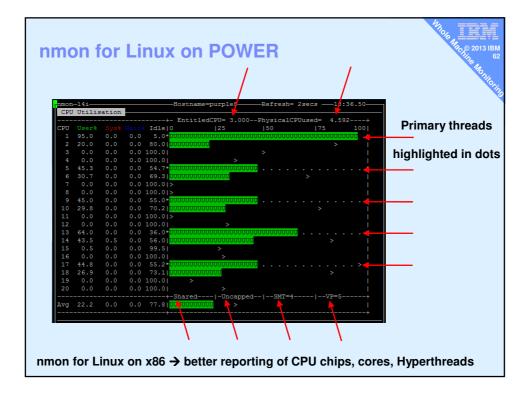




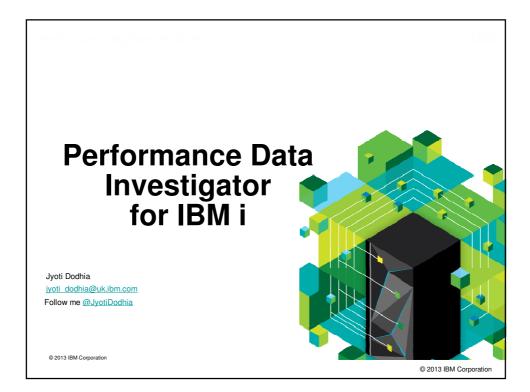


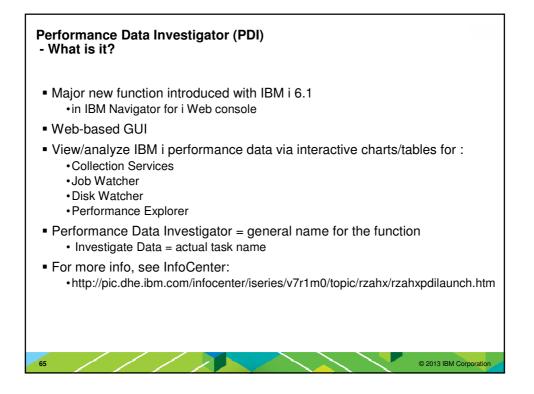




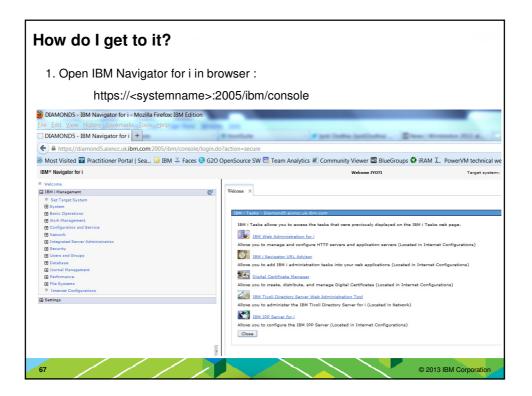


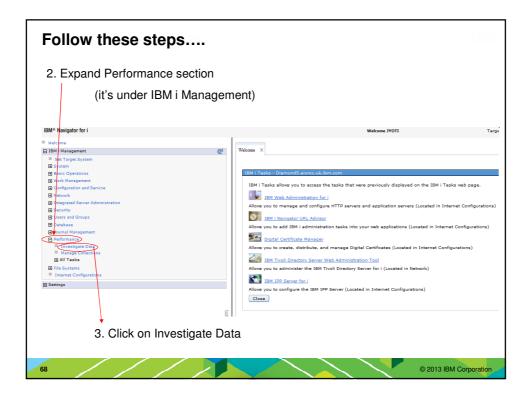


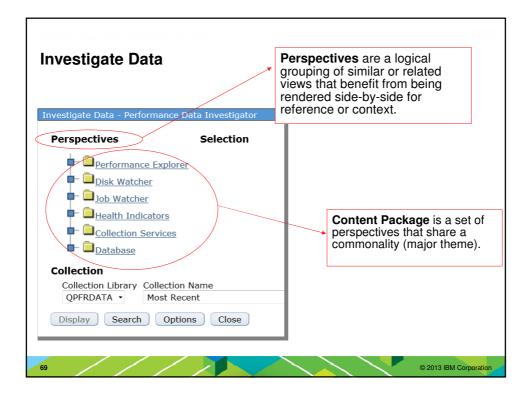


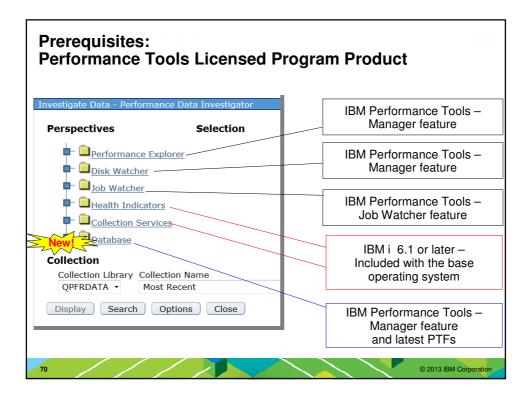


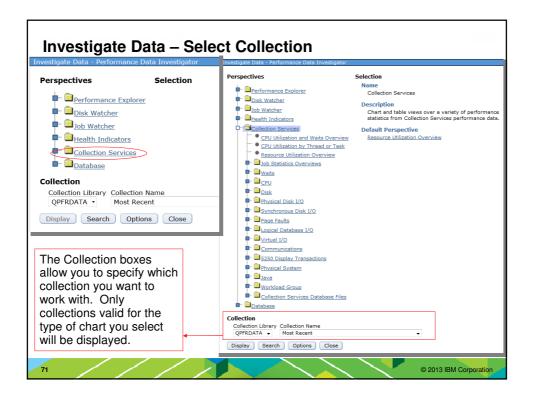
HMC option to enable performance collection must be turned on for the IBM i partition to collect the data Partition Properties - IBMiBase General Hardware Virtual Adapters Settings Other Processing Units Nemory 1/0 Processing Units Capped Assigned: 3.00 Sharing mode: Capped	
General Hardware Virtual Adapters Settings Other Processors Memory I/O Processing Units Minimum: 0.10 Sharing mode: Capped Assigned: 3.00 Sharing mode: Capped	
General Hardware Virtual Adapters Settings Other Processors Memory I/O Processing Units Minimum: 0.10 Sharing mode: Capped Assigned: 3.00 Sharing mode: Capped	
Processors Memory 1/0 Processing Units Minimum: 0.10 Sharing mode: Capped Assigned: 3.00	
Maximum: 3.00 Shared processor pool: DefaultPool (0) Allow performance information collection. Virtual Processors Minimum: 1.0 Assigned: 3.0 Maximum: 3.0 Processor Compatibility Mode Compatibility mode: POWER6 OK Cancel Help	

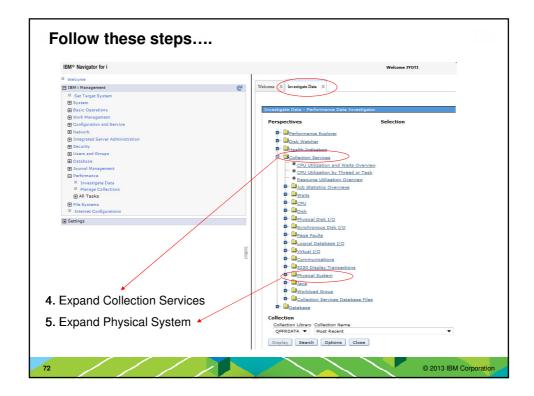












Physical System Charts

Collection Services can collect certain high-level cross-partition processor performance metrics For all logical partitions on the same single physical server regardless of operating system Available on Power 6 and above, with a minimum firmware level xx340_061

Available data can be viewed via several perspectives found under "Physical System".



