

SERVICE CONTROL

HP-UX systems m anagem ent

hp world #326

Hew Lett-Packard
Ute A bert

Pruneridge Ave Cupertino, CA 95014

Phone: 408-447-5249

Fax: 408-447-4594

Email:ute_abert@ hp.com

m anageability NOW with flexible end-to-end m anageability



optim um
user experience

- •cost-effective rapid control
- •proactive problem solving
- optim ized resource m anagem ent

HP-UX servicecontrol hp openview outsourcing

flexible end-to-end m anageability

SERVICECONTROL

single point, multi-system configuration management

servicecontrolm anager (SCM)

SAM Ignite/UX SD/UX on line JFS

secure web console central web console

system configuration repository (SCR)

faultm anagem ent

EMS EMS HAmonitors

workbad m anagem ent

HP-UX workbad m anager (W LM) PRM glanceplus pak m c/serviceguard web workbad m anagem ent
WebQoS

enterprise m anagem ent

hp openview

CAUnicenter Tivoli BMC

servicecontrol managerfor cost-effective, rapid centralcontrol

web-based GUI



servicecontrolm anager bundled with every hp 9000 server

Up to 5X productivity gain

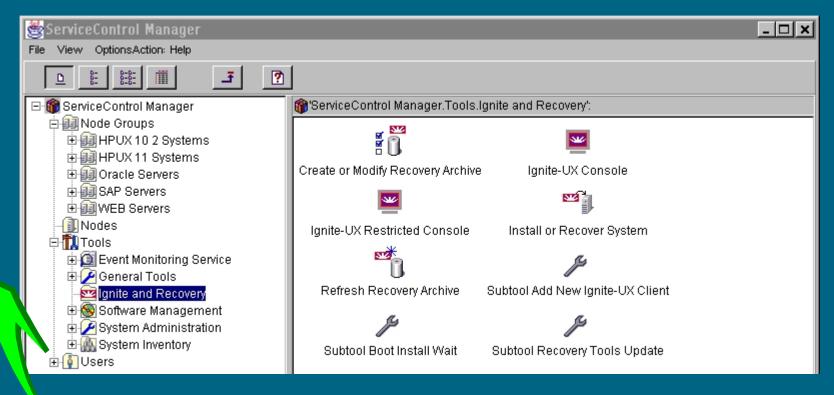
integrated single point of administration for hp 9000 hyperplex

distributed task facility - define once execute sinultaneously

no le-based security

hunch pointofhp and non-hp took through user-defined scripts

servicecontrolm anager-toolview



Integrated Tools:

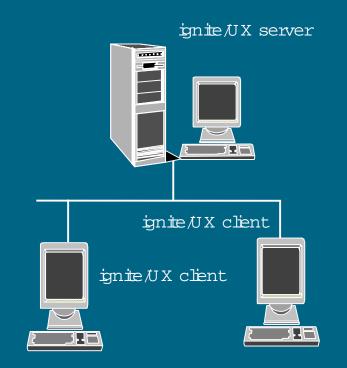
- Event Monitoring Service (EMS)
- Ignite/UX
- ŠD/UX
- System Configuration Repository (SCR)
- System Administration (SAM)
- Key HP-UX Commands (such as bdf, cat cp, find,...)

Note: Access also via an X-Windows and command-line interface

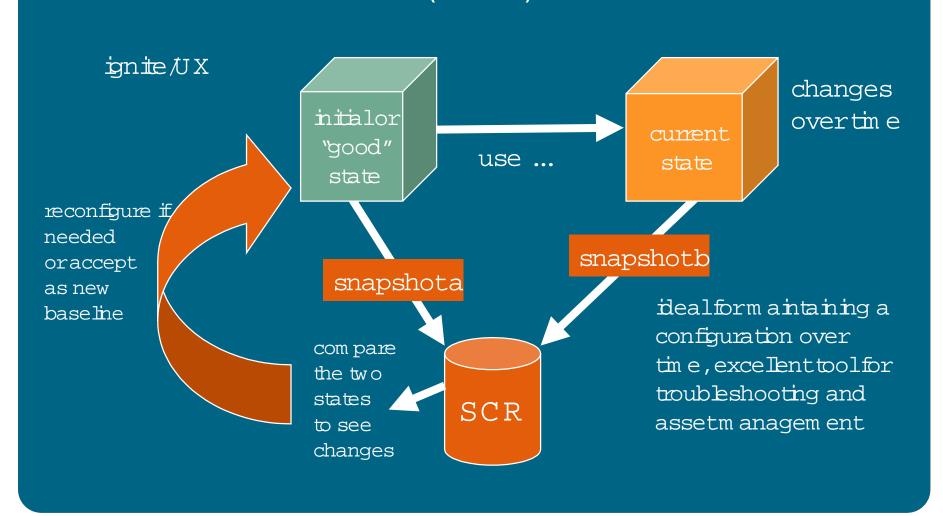
ignite/UX: configure one deploymany from a central bcation

- create system in age once and replicate sin ultaneously on any num berofhp 9000 servers
- rem ote network-based system installorupdate

reduced adm in istrative overhead and costs with fewer errors



HP-UX servicecontrolconfiguration m anagement: system configuration repository (SCR)



eventmonitoring service for system component fault detection and avoidance

EMS supports a wide variety of event notification and actions:

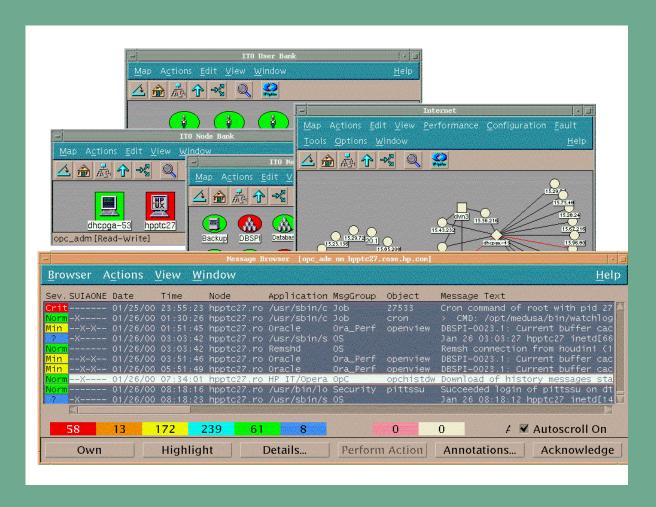
- bg files, paging, e-m ail, OV VP operations, and CA unicenter
- M C /serviceguard integration



- Disks, volume groups
- Network interface cards
- •File systems
- Database

OpenView VantagePointOperations Managing Application Quality of Service

End-to-End
Application
Management
with Total
Visibility of
Heterogeneous
systems



HP-UX servicecontrol: three-tierworkbad m anagem enttools

business-driven goals form ultiple applications on a single

for every m ission-critical environm ent	HP-UX workbad -manager (includes PRM)	Goalbased resource management automatic change of CPU allocation
forevery m id-tier application server	process resource m anager (PRM)	Controls CPU, memory, disk I/O dynamic change of resource alboation
bundled w ith every hp 9000 server	W ebQ oS peak	m anagem entofpeak dem and for the web

optim ized systems utilization only forhp 9000 servers

web quality of service (WebQoS)

II provider

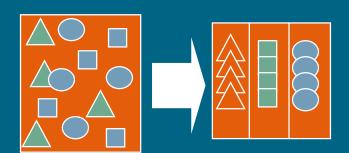
- •m easure
- •m anage
- •control

end-user

- responsiveness
- availability
- security

business m anager

- custom erservice
- satisfaction/byalty
- •new services
- hp W ebQ oS peak = peak-usagem anagem ent, bad balancing
- hp W ebQ oS prem ium = userand service prioritization



internet today unpredictable inconsistent

internetwith hp

predictable service

consistent

userchsses

• prioritizing users

service classes

• prioritizing applications

peak usage m anagem ent

• handling the unexpected

hp process resource m anager (PRM): predictable service levelm anagem ent

PRM includes:

• PRM analyze to collect system accounting data for charge back and tuning

application 1

50% CPU

50% realm em ory
50% disk I/O

25% CPU

25% CPU

25% realm em ory
25% realm em ory
25% disk I/O

25% disk I/O

80%

>10,000 licenses

PRM allows you to drive up system utilization by running more applications perserver: the result is a better ROI

HP-UX workbad m anager (W LM)

examples of service levelobiectives (SLOs)

application a

application b

response tim e SLO

transaction will complete

in less than 3 seconds

application c

response tim e SLO

transactions will complete in less than 2 seconds.

priority 1 priority 2

bb duration SLO

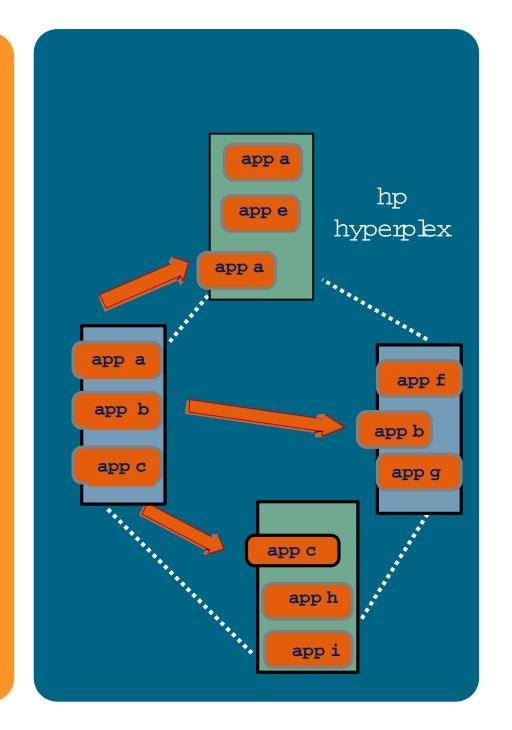
batch job will finish in less than 1 hour.

priority 3

HP-UXW LM automatically reconfigures CPU entitlements to satisfy SLOs in priority order

dynam is application rehosting within an hp hyperplex with m c/servicequard

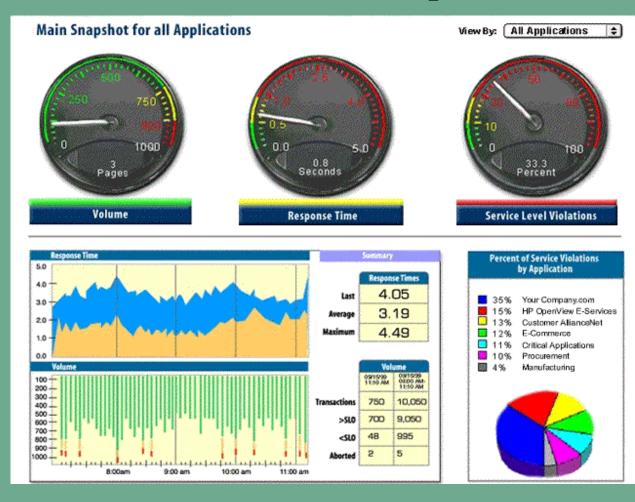
- m in ize planned service interruptions
- hardware/software
 upgrades or
 maintenance
- re-balance workbads and processing priorities with PRM



HP OpenView Vantage Point Web Transaction Observer

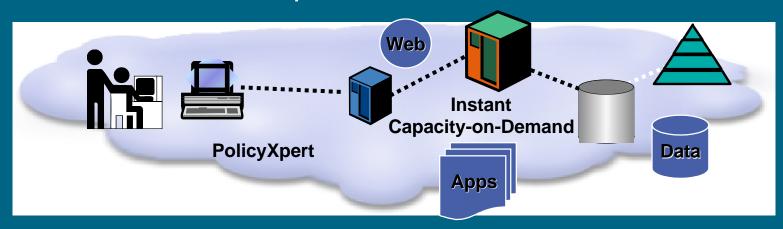
Your Custom er's Perspective

- Know how long customers had to wait to load your web page
- See point of failure in chain
- Drill down to
 specific reports



M anageability NOW: Optim ize your transactions end-to-end!

- •HP WebQoS for peak workload & prioritization
- •HP VP Web Transaction Observer to track customer's web experience & isolate bottlenecks



- •HP PRM/ HP-UX WLM for optimized system resources
- •HP VP Operations: End-to-end availability management solution for distributed, heterogeneous environments

SERVICECONTROL

easy three-terpackaging

m issioncritical environm ent

m id-tier application server

bundled with every hp 9000 server servicecontrol
HP-UX workbad m anager (*),
M C /serviceguard,

critical

ECM (enterprise clusterm aster) tookit

servicecontrol process resource m anager, hp on ine JFS, glanceplus Pak, enterprise EMSHA m on itors

servicecontrol
servicecontrol
WebQoSpeak, Ignite/UX,
SSENTIAL
SAM, SD/UX, EMS,
system configuration repository,
secure web console (for ALN-Class)

recom m ended add-on products: centralweb console, openview vantagepoint (*) HP-UX W LM includes PRM

m anageability NOW
with
flexible end-to-end
m anageability

optim um user experience



HP-UX servicecontrol
hp openview
outsourcing