在HP-UX11.31上配置APA过程简述

APA简介

HP Auto Port Aggregation (APA) 可以创建链路聚合(link aggregates,通常也叫做trunks),它将两个或更多个物理端口(port)分组成一个更宽的逻辑通道,从而 提高数据带宽和链路可用性。通过APA可以为服务器建立一个更高带宽、更高可用性的逻辑链路,而这些对客户端和服务器端的应用程序来说都是透明的。

HP APA 所具有的能力如下表所示:

Table A-1 HP APA and LAN Monitor Capabilities

	FEC_AUTO, LACP_AUTO, MANUAL Modes	LAN_MONITOR Mode	Integration with HP Serviceguard in MANUAL ¹ , FEC_AUTO, LACP_AUTO, and LAN_MONITOR Modes
Minimum Number of Ports per Link Aggregate	FEC_AUTO (1) LACP_AUTO (1) MANUAL (1)	2	2
Maximum Number of Ports per Link Aggregate	FEC_AUTO (8) MANUAL (8) LACP_AUTO (32)	32	4
Active Ports per Link Aggregate	MANUAL (HS) (1) Others (N/A)	1.	MANUAL (HS) (1) LAN_MONITOR (1) Others (N/A)
Standby Ports per Link Aggregate	MANUAL (HS) (0 - 7) Others (N/A)	1 - 31	MANUAL (HS) (1 - 3) LAN_MONITOR (1 - 3) Others (N/A)
Maximum Number of Link Aggregates per System	50	50	50
Load Balancing (LB) or Hot Standby (HS)	FEC_AUTO (LB) LACP_AUTO (LB) MANUAL (LB and HS)	нѕ	MANUAL (LB and HS) ² FEC_AUTO (LB) LACP_AUTO (LB) LAN_MONITOR (HS)
MIB Monitor Support	Yes	Yes	Yes
Buses	PCI	PCI	PCI
Links ³⁴	100BT, Gigabit	100BT, Gigabit, 10 GbE Fiber ⁵	100BT, Gigabit, 10 GbE Fiber (LAN_MONITOR)
Workstation Support	Yes	Yes	Yes
Switches and Hubs	See "Supported Switches" (page 23)	See "Supported Switches" (page 23)	See "Supported Switches" (page 23)
Starting PPA#	900	900	900
HP Serviceguard Version	A.11.15	A.11.15	A.11.09 and A.11.18 ⁶
Configuration Methods	SMH, edit files, and nwmgr	SMH, edit files, nwmgr, and lan*conf commands	SMH, edit files, and nwngr
Instant Ignition	Yes	Yes	N/A
Full and half-duplex ⁷	Yes ⁴	Yes	Yes

二、 在HP-UX 11.31配置APA

APA的配置可以通过修改配置文件来完成,也可以使用SMH(System Management Homepage)图形界面完成。建议使用SMH图形界面,简便、直观,不易出错。

本次安装背景:

所用交换机: CISCO 6509 需要聚合的网卡: lan1、lan2 APA模式: LACP_AUTO

注意: 当要把APA配置成LACP_AUTO模式时,需要把主机上需要聚合的端口连接到同一台交换机或路由器,并将交换机或路由器一端对应端口设置为一个 trunk, 否则APA无法生效。

配置过程简述如下:

(一) 将交换机端的对应端口设置为一个trunk

Switch1#enable Password:password Switch1#config term config command 1

Ctrl+z

Switch1(config-if)#interface range gigabitethernet 3/1 - 3

Switch1(config-if-range)#no ip address
Switch1(config-if-range)#channel-protocol lacp
Switch1(config-if-range)#channel-group 1 mode active
Creating a port-channel interface Port-channel 1

Switch1(config-if-range)#end

Switch1#config term

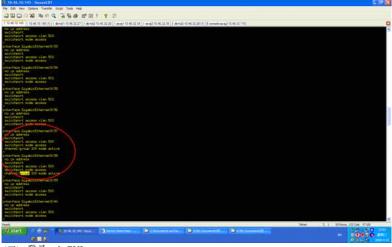
config command

Switch1(config)#interface port-channel 1

Switch1(config-if)#no shutdown

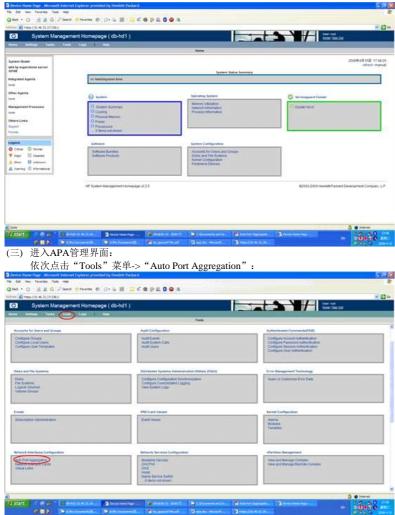
Switch1(config-if)#end

1 Enter configuration commands, one per line. End with Ctrl+z or end.



(二) 登录smh GUI

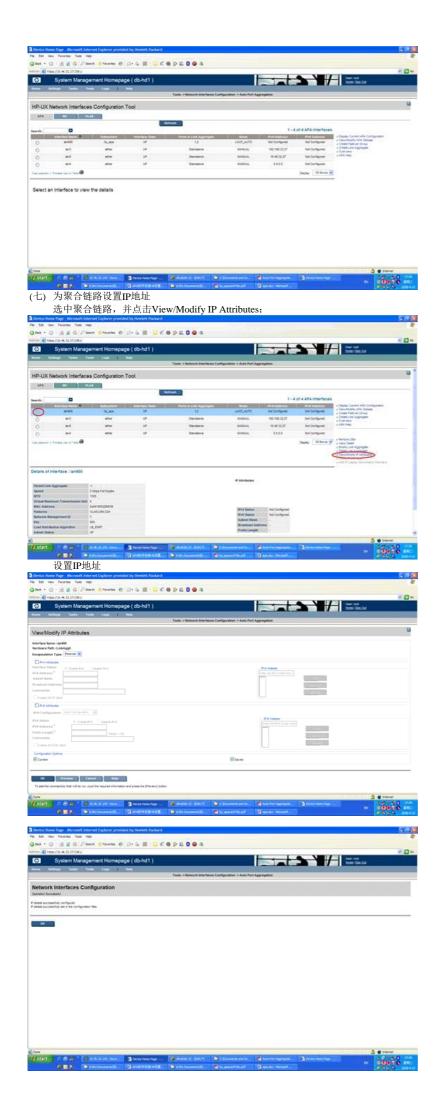
打开web浏览器,在地址栏输入地址: https://host:2381, 其中host为要配置APA主机的主机名或IP地址。



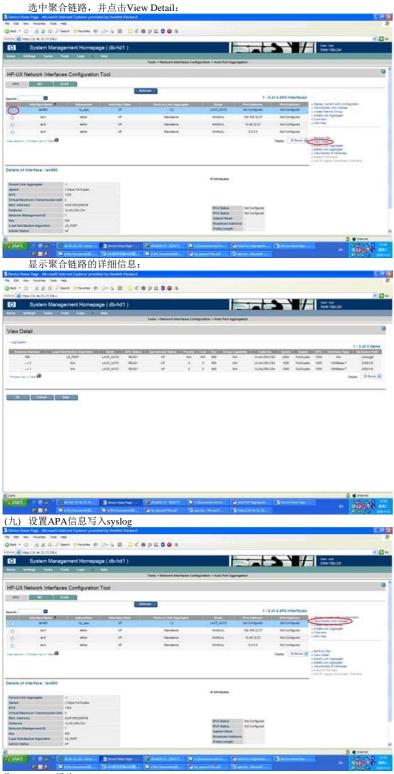
(四) 点击 "Create Link Aggregate"



再次点击OK确认,会显示聚合后所有链路的状态:



(八) 查看聚合链路的详细信息



将Use syslog设为1:

