



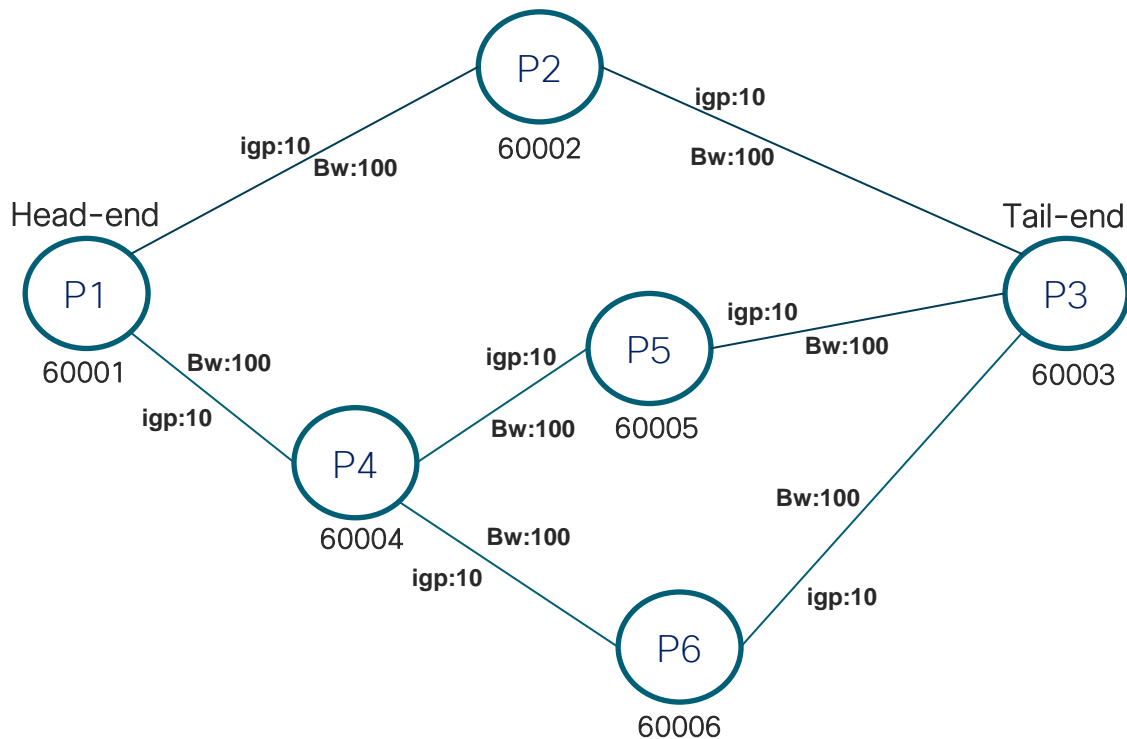
# VISTA 后台API应用场景示例

# 应用场景举例

- ❑ 拓扑说明
- ❑ 示例一：创建BoD SR\_Policy，计算路径
- ❑ 示例二：路径全局重优化
- ❑ 示例三：拥塞优化
- ❑ 示例四：路径还原

# Example – 拓扑

- 图中Bw表示链路剩余可用带宽

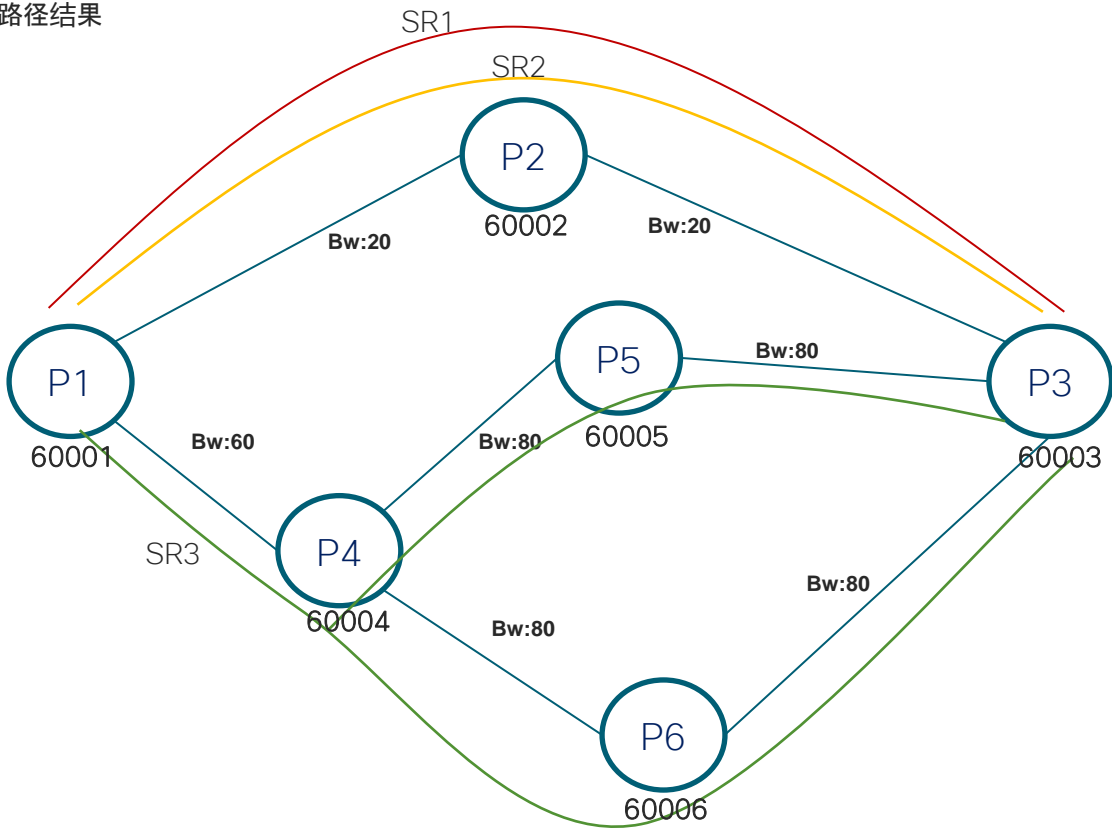


# Example1 – Create SR1, SR2, SR3

• 图中Bw表示链路剩余可用带宽

- 依次创建SR1, SR2, SR3, 根据拓扑环境和约束条件, 计算路径结果
- 对应postman中, Vista\_API\_Scenario下的:
  - Example1--Create SR1
  - Example1--Create SR2
  - Example1--Create SR3

Id	He	Te	BW	Segs
SR1	P1	P3	40	60003
SR2	P1	P3	40	60003
SR3	P1	P3	40	60004 60003

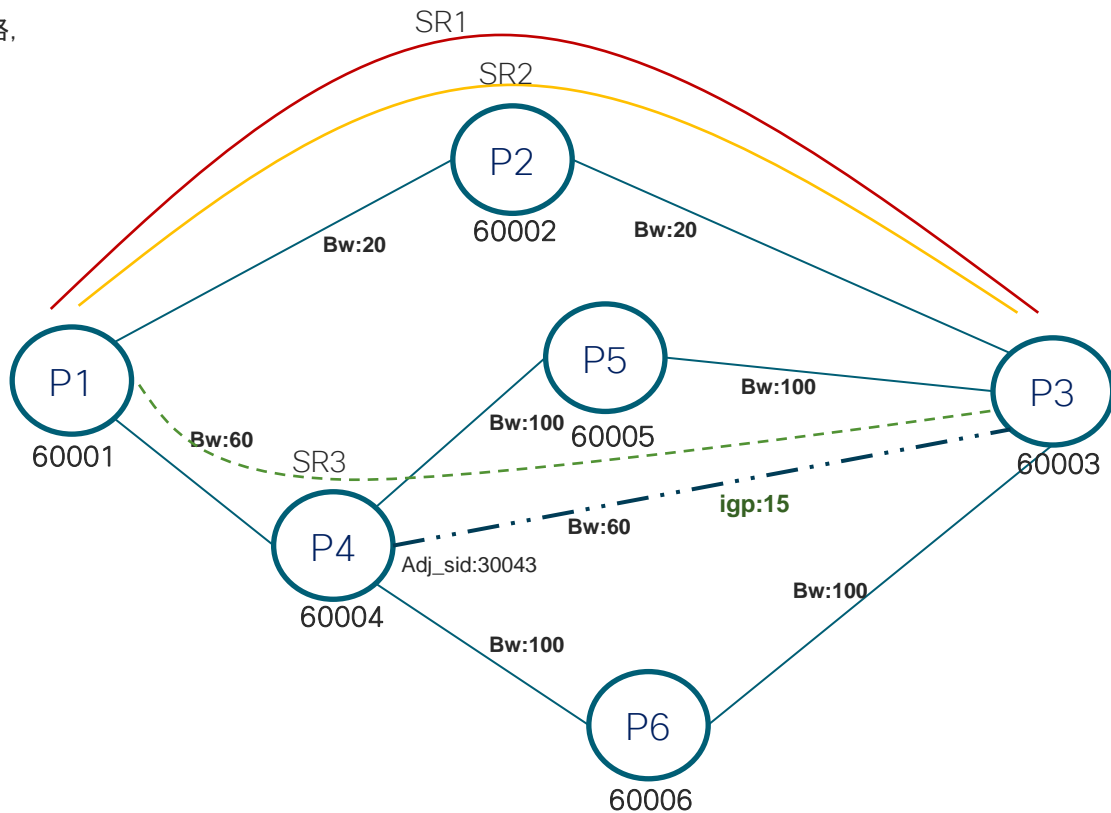


# Example2 – Re-optimize

• 图中Bw表示链路剩余可用带宽

- 在Demo1的基础上, topo发生变化, 新增P4-P3之间的链路, 执行全局路径重优化
- 对应postman中, Vista\_API\_Scenario下的:
  - Example2--RE-Optimize

	Id	He	Te	BW	Seg
—	SR1	P1	P3	40	60003
—	SR2	P1	P3	40	60003
- - -	SR3	P1	P3	40	60004 30043 60003



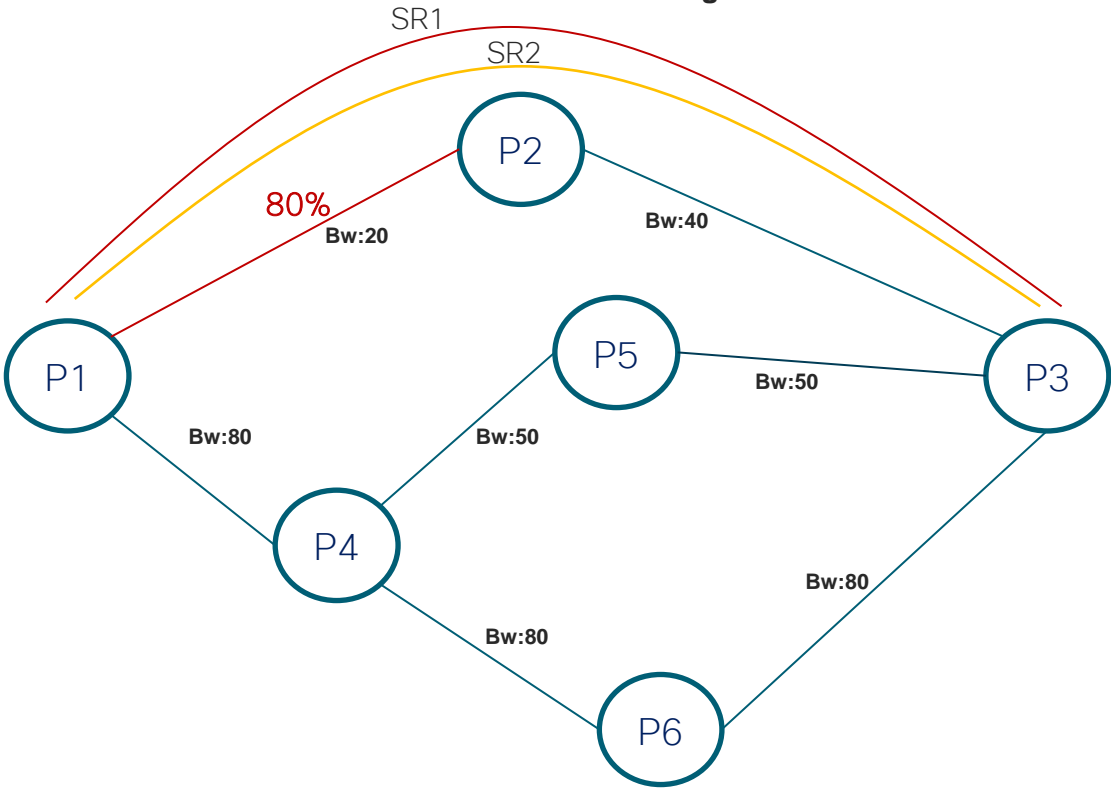
# Example3 – Congestion Optimize

• 图中Bw表示链路剩余可用带宽

- P1-P2之间链路发生拥塞, 执行路径拥塞优化
- 对应postman中, Vista\_API\_Scenario下的:
  - Example3--Congestion\_Optimize

Before Congestion Optimize  
congest-threshold: 80%

Id	He	Te	BW	Priority	Seg
SR1	P1	P3	40	2	60003
SR2	P1	P3	40	1	60003



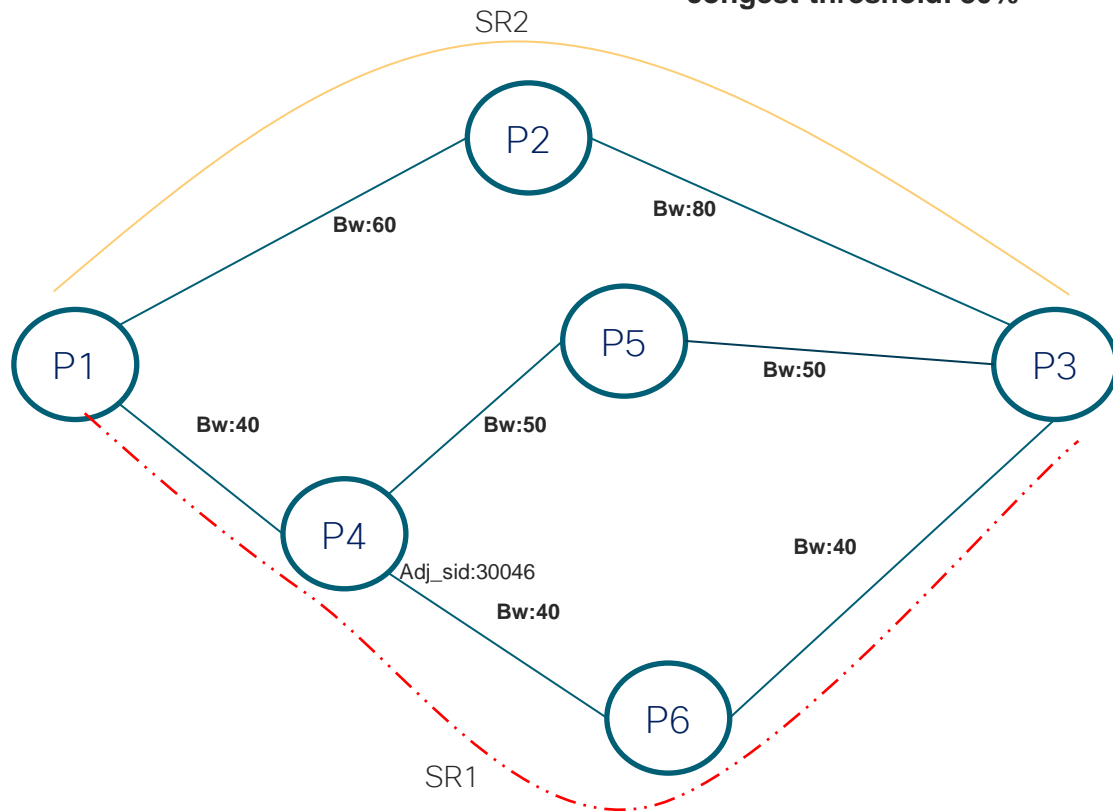
## Example3 – Congestion Optimize Cont.

- 图中Bw表示链路剩余可用带宽

拥塞优化后, SR1路径被调整到P1-P4-P6-P3

After Congestion Optimize  
congest-threshold: 80%

Id	He	Te	BW	Priority	Seg
SR1	P1	P3	40	2	60004
					30046
					60003
SR2	P1	P3	40	1	60003



## Example4 – Path Restore

- 路径还原, 根据topo中选中的节点, 链路, 通过计算还原出逐跳路径
- 对应postman中, Vista\_API\_Scenario下的:
  - Example4--PATH Restore

• 举例:

1. 选中节点 (P1, P4, P3), 还原路径如绿色曲线(ECMP)

["P1","P1:30014","P4","P4:30045","P5","P5:30053","P3"],

["P1","P1:30014","P4","P4:30046","P6","P6:30063","P3"]

2. 选中节点 (P1, P3), 还原路径如红色曲线

["P1", "P1:30012", "P2", "P2:30023", "P3"]

