承载新美大的云计算基础运维

胡湘涛

基础平台服务

同平台承载新美大与美团云

















IDC



服务器

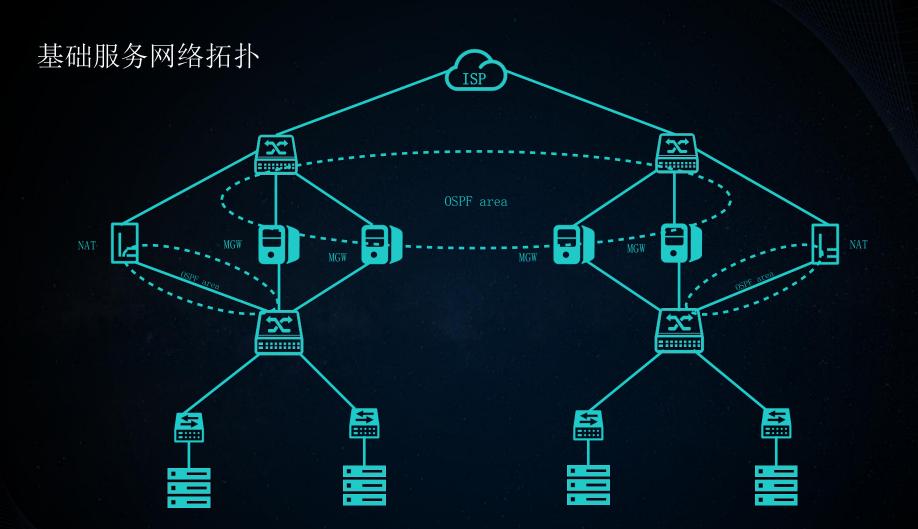


网络

基础平台结构

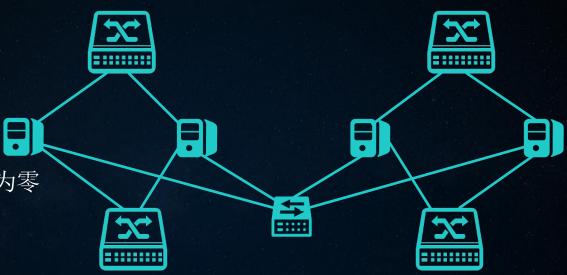


高可用基础服务



MGW Session同步

- 单节点1200万session
- 二层广播同步session
- 百万session切换miss率为零
- session增量策略同步



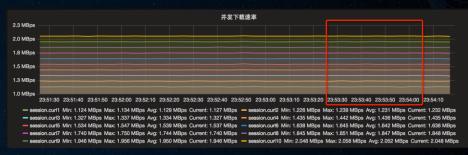
MGW Session同步: 故障验证

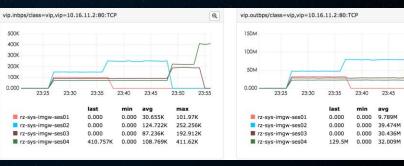
单点故障





多点故障





Q

max

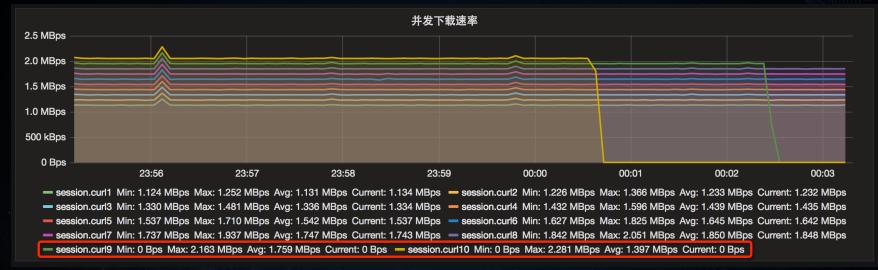
32.391M

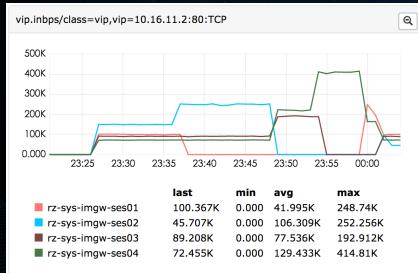
79.849M

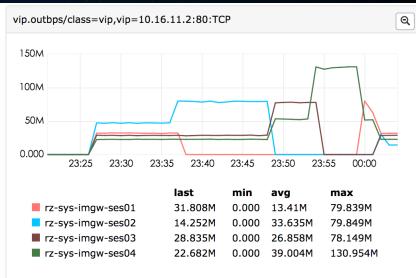
78.149M

130.829M

MGW Session同步: 故障恢复/无感扩容

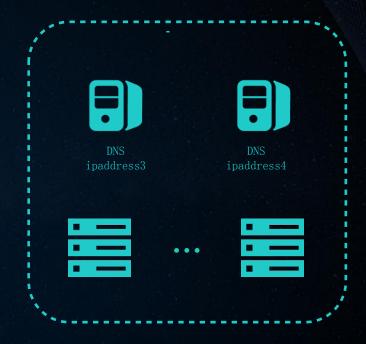




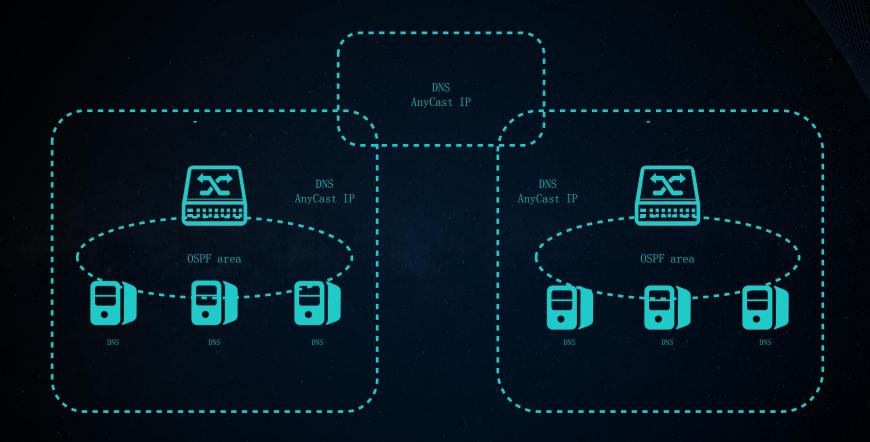


Traditional DNS Structure



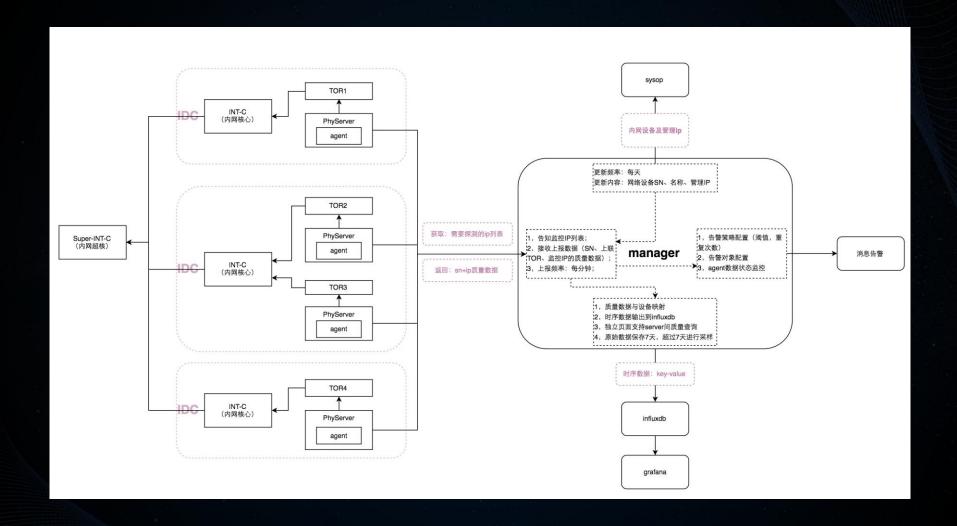


AnyCast DNS Structure

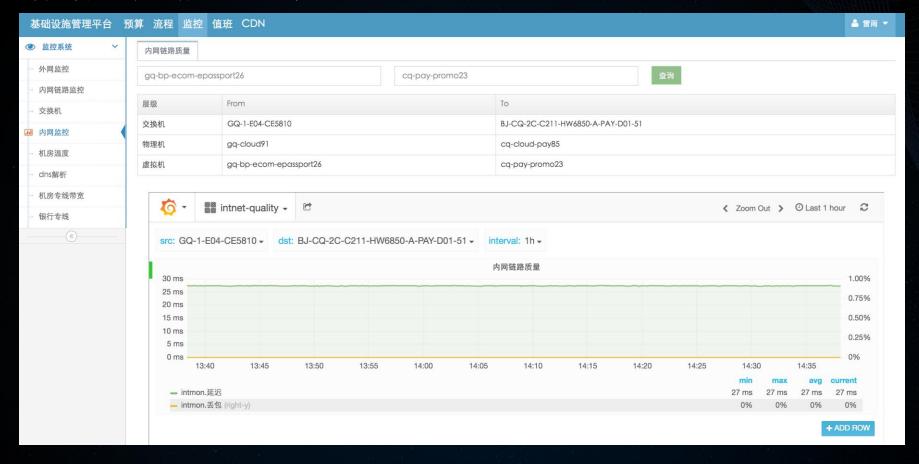


基础网络质量监控

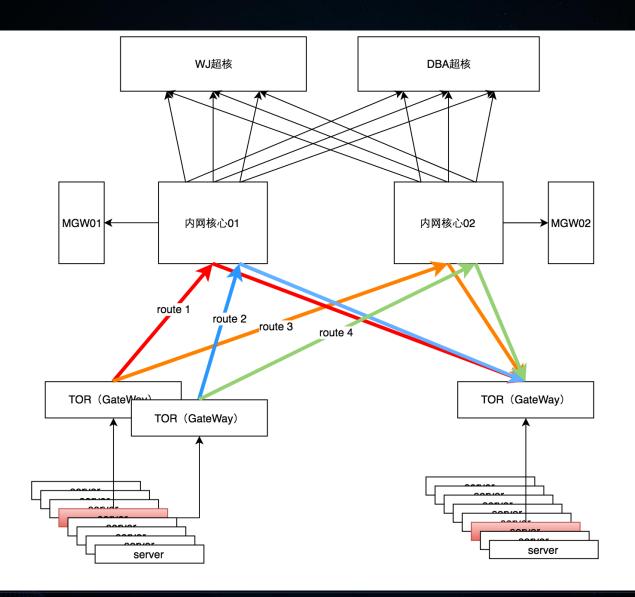
内网质量监控一期:全网ICMP质量



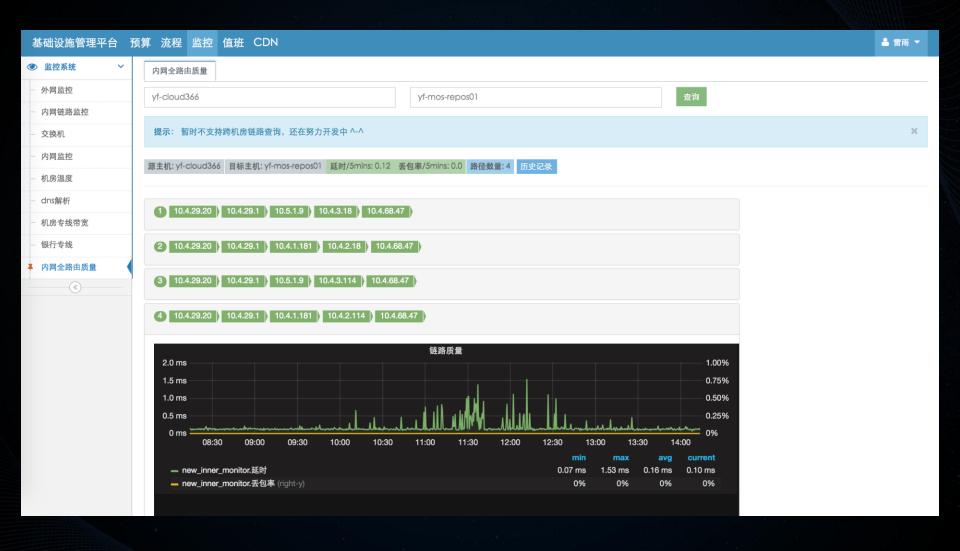
内网质量监控一期:全网ICMP质量



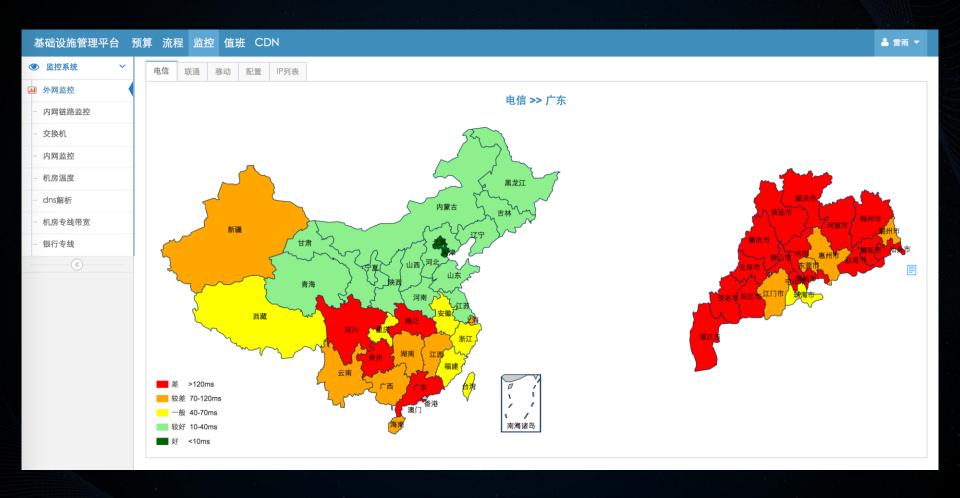
内网质量监控二期:全网路由质量



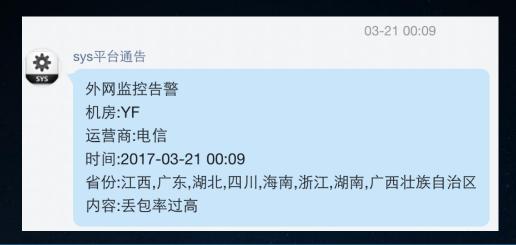
内网质量监控二期:查询&展示



全国公网质量监控: 直观展示



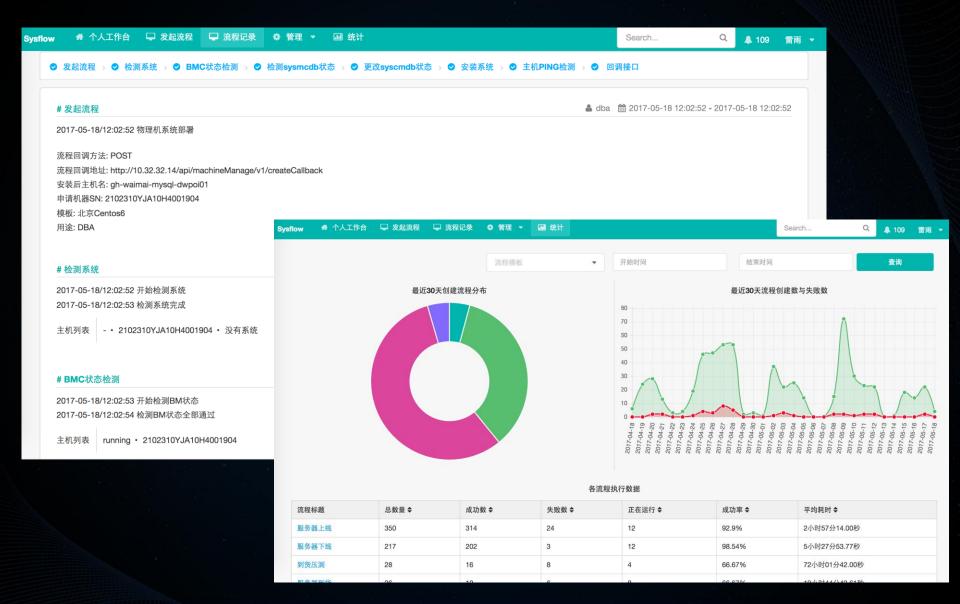
全国公网质量监控: 详情&告警





多维资源数据运营

服务器操作流程自动化



服务器电力功耗统计分析

□ 资源数据日报-机柜电力-2017-05-17

机柜电力-北京

中福里	tn +c ≥ ** ≠ ** tn +c **	마수 송사 나무 나미 나도 송사	工	土工活机作業	호선 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B. 告 tn tc #	左於tn tc 宏	左 数41年平均由力利田変	利用索关体/口\
房间号	机他总数 有效机他数		<u> </u>	木井週別他致				有效机柜平均电力利用率	
COR		0			10	0		40.9%	-1.5%
CO 5D		0			18	0		47.0%	0.0%
C 计		0			28	0	62.2%	45.2%	-0.3%
D 02		0			1	0	73.3%	66.2%	-0.2%
D) 04		0			2	0	48.8%	66.9%	-0.4%
D) 79		0			1	0	66.5%	70.5%	+0.3%
D)		0			4	0	65.3%	69.1%	+0.1%
G		0			8	0	0.0%	_	-
G		0			14	0	44.2%	61.3%	+1.0%
GH-2		0			12	0	0.0%	-	-
GH		0			17	0	16.7%	86.0%	+1.8%
G =		0			0	0	_	_	-
G		0			0	0	_	-	-
G		0			51	0	32.5%	65.0%	+1.0%
R 01		0			0	0	62.6%	94.5%	+0.3%
RZ 2		0			0	0	76.0%	84.6%	0.0%
RZ = 501		0			8	0	86.0%	77.2%	+0.2%
R 02		0			0	0	84.2%	77.7%	+0.2%
RZ		0			8	0	79.1%	81.4%	+0.1%
YF-		0			4	0	52.8%	75.0%	+2.6%
YF 5		0			4	0	47.8%	70.9%	-0.2%
YF 6		0			5	0	40.0%	52.4%	0.0%
YF- = +		0			13	0	48.0%	69.5%	+0.8%
C.		0			104	0			+0.3%
									0.1076

数据中心基础资源环境开放

现场可视化



环境检测



THANKS

技术突破边界 服务传递价值