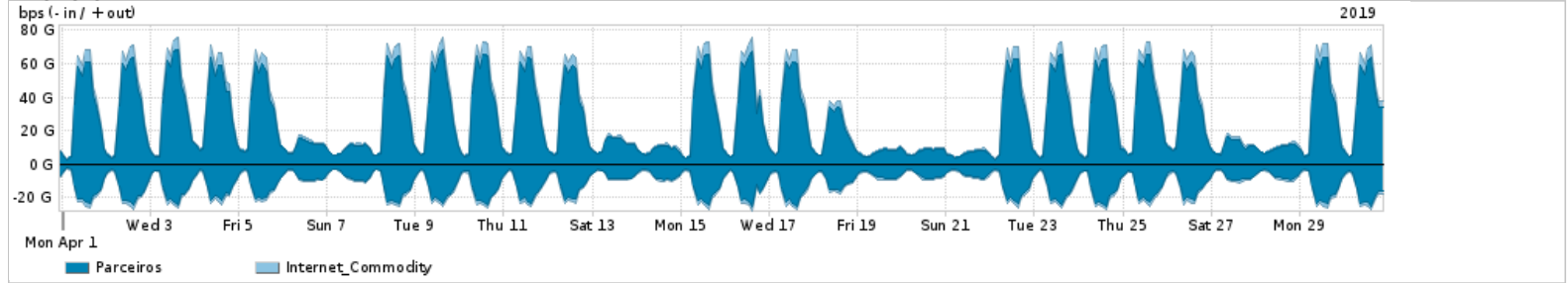


Os gráficos apresentados neste relatório de tráfego estão em formato stack, o que significa que seu valor é uma composição da soma dos componentes listados nas legendas localizadas logo abaixo dos gráficos. Os gráficos estão em "bps x tempo" e possuem dois eixos verticais, Out (positivo) e In (negativo). A primeira coluna da tabela define o ponto de referência para entendimento dos valores de In e Out. A contabilização do tráfego é sob o ponto de vista do AS da RNP, AS1916.

- Legenda:
- PoP - Ponto de presença da RNP
 - Parceiros - Provedores comerciais que a RNP mantém acordos de troca de tráfego
 - Internet Acadêmica - Acesso às redes acadêmicas internacionais, serviço atualmente provido pela RedClara
 - Internet commodity - Acesso pago à Internet global que é oferecido pela RNP aos seus clientes
 - ASN - Número do sistema autônomo
 - Profile - Objeto gerenciável definido arbitrariamente no Peakflow através de diversos parâmetros (ex: bloco cidr, peer-as, as-path, bgp community, interface, etc)

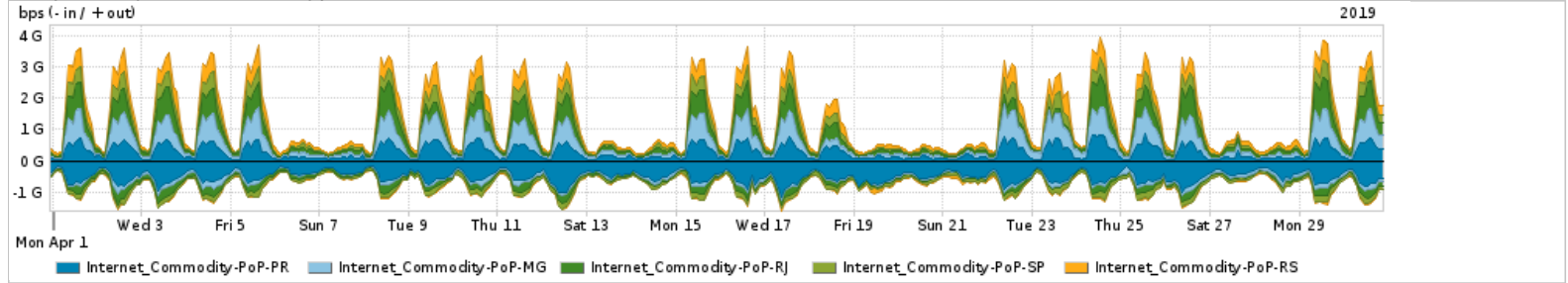
Tráfego agregado dos acessos comerciais da RNP



Average | Max | PCT95

PROFILE	IN	OUT	TOTAL
<input checked="" type="checkbox"/> Parceiros	11.89 Gbps	26.09 Gbps	37.98 Gbps
<input checked="" type="checkbox"/> Internet_Commodity	1.24 Gbps	2.94 Gbps	4.18 Gbps

Utilização do serviço de Internet Commodity pelos PoPs da RNP

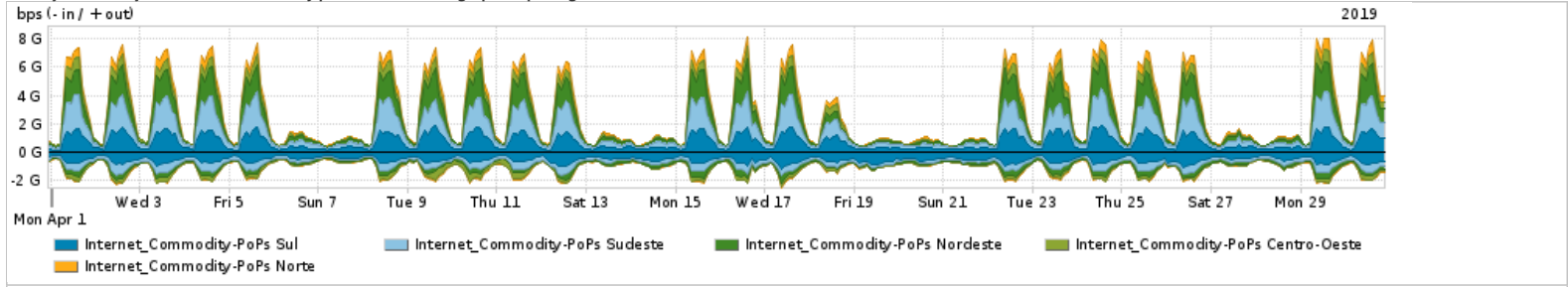


Average | Max | PCT95

PROFILE	PROFILE	IN	OUT	TOTAL
<input checked="" type="checkbox"/> Internet_Commodity	PoP-PR	494.26 Mbps	270.78 Mbps	765.04 Mbps
<input checked="" type="checkbox"/> Internet_Commodity	PoP-MG	65.59 Mbps	336.41 Mbps	402.00 Mbps
<input checked="" type="checkbox"/> Internet_Commodity	PoP-RJ	109.64 Mbps	282.49 Mbps	392.13 Mbps
<input checked="" type="checkbox"/> Internet_Commodity	PoP-SP	100.85 Mbps	186.14 Mbps	286.99 Mbps
<input checked="" type="checkbox"/> Internet_Commodity	PoP-RS	23.63 Mbps	248.37 Mbps	272.00 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-DF	95.91 Mbps	141.23 Mbps	237.14 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-PE	83.96 Mbps	113.82 Mbps	197.78 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-SC	33.68 Mbps	160.64 Mbps	194.32 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-BA	34.02 Mbps	112.55 Mbps	146.57 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-CE	25.54 Mbps	116.27 Mbps	141.80 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-PA	8.57 Mbps	119.14 Mbps	127.71 Mbps
<input type="checkbox"/> Internet_Commodity	PoP-RN	12.48 Mbps	107.28 Mbps	119.76 Mbps

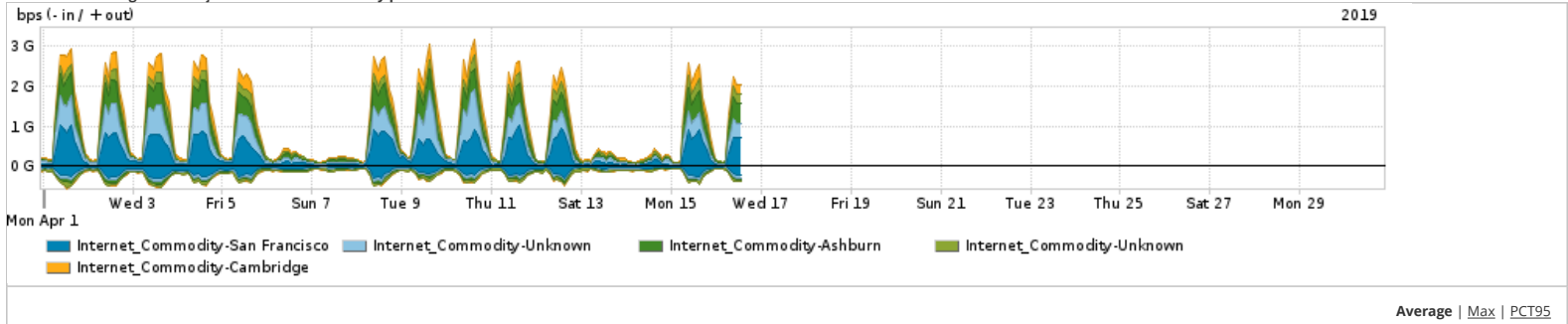
	PROFILE	PROFILE	IN	OUT	TOTAL
<input type="checkbox"/>	Internet_Commodity	PoP-PB	13.37 Mbps	98.42 Mbps	111.78 Mbps
<input type="checkbox"/>	Internet_Commodity	PoP-GO	20.74 Mbps	80.77 Mbps	101.51 Mbps
<input type="checkbox"/>	Internet_Commodity	PoP-ES	25.94 Mbps	63.01 Mbps	88.95 Mbps

Utilização do serviço de Internet Commodity pelos PoPs da RNP agrupados por região



	PROFILE	PROFILE	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	Internet_Commodity	PoPs Sul	551.57 Mbps	679.78 Mbps	1.23 Gbps
<input checked="" type="checkbox"/>	Internet_Commodity	PoPs Sudeste	302.02 Mbps	868.05 Mbps	1.17 Gbps
<input checked="" type="checkbox"/>	Internet_Commodity	PoPs Nordeste	192.27 Mbps	724.26 Mbps	916.53 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	PoPs Centro-Oeste	142.85 Mbps	288.58 Mbps	431.43 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	PoPs Norte	35.82 Mbps	254.85 Mbps	290.66 Mbps

Interesse de tráfego do serviço de Internet Commodity por cidade

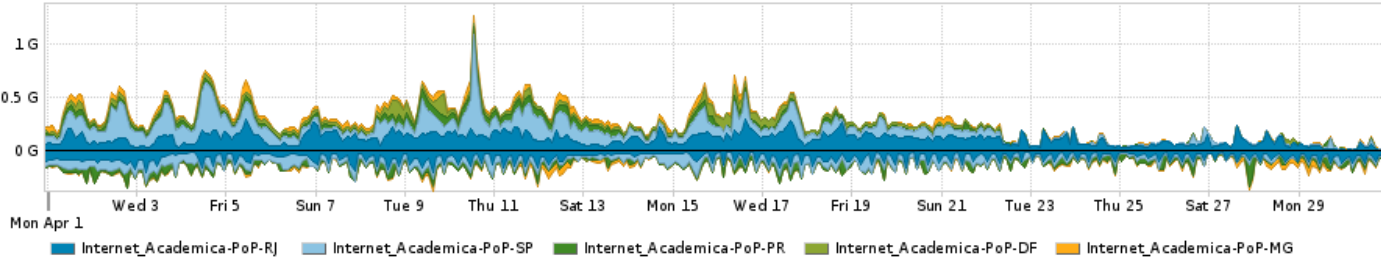


	PROFILE	CITY	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	Internet_Commodity	San Francisco	51.72 Mbps	160.09 Mbps	211.81 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	Unknown	18.96 Mbps	130.24 Mbps	149.21 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	Ashburn	15.75 Mbps	107.52 Mbps	123.27 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	Unknown	26.50 Mbps	60.79 Mbps	87.29 Mbps
<input checked="" type="checkbox"/>	Internet_Commodity	Cambridge	5.09 Mbps	81.77 Mbps	86.86 Mbps
<input type="checkbox"/>	Internet_Commodity	Seattle	3.52 Mbps	80.86 Mbps	84.38 Mbps
<input type="checkbox"/>	Internet_Commodity	Unknown	8.47 Mbps	45.79 Mbps	54.26 Mbps
<input type="checkbox"/>	Internet_Commodity	Boardman	35.42 Mbps	18.29 Mbps	53.71 Mbps
<input type="checkbox"/>	Internet_Commodity	Unknown	5.52 Mbps	48.14 Mbps	53.66 Mbps
<input type="checkbox"/>	Internet_Commodity	Unknown	6.54 Mbps	42.32 Mbps	48.86 Mbps

Distribuição do uso do serviço de Internet acadêmica internacional pelos PoPs da RNP

bps (- in / + out)

2019



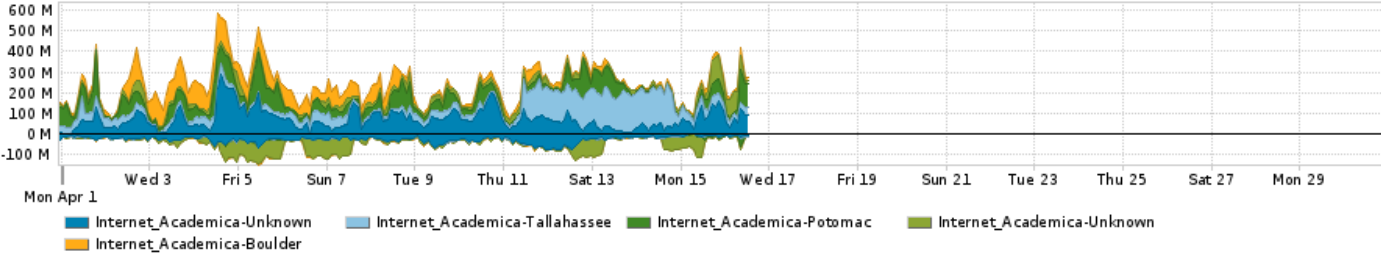
Average | Max | PCT95

	PROFILE	PROFILE	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	Internet_Academica	PoP-RJ	58.85 Mbps	113.31 Mbps	172.16 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	PoP-SP	52.46 Mbps	91.37 Mbps	143.84 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	PoP-PR	26.57 Mbps	26.02 Mbps	52.60 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	PoP-DF	2.42 Mbps	29.33 Mbps	31.75 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	PoP-MG	9.26 Mbps	19.43 Mbps	28.69 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-CE	16.28 Mbps	9.67 Mbps	25.95 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-RS	1.54 Mbps	23.84 Mbps	25.38 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-SC	3.27 Mbps	15.08 Mbps	18.35 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-BA	350.96 Kbps	17.61 Mbps	17.96 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-RN	396.62 Kbps	16.85 Mbps	17.25 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-ES	764.69 Kbps	7.05 Mbps	7.82 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-PA	1.44 Mbps	5.79 Mbps	7.24 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-PE	667.69 Kbps	5.84 Mbps	6.51 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-AM	328.12 Kbps	3.49 Mbps	3.82 Mbps
<input type="checkbox"/>	Internet_Academica	PoP-PB	438.13 Kbps	3.28 Mbps	3.72 Mbps

Interesse de tráfego do serviço de Internet acadêmica internacional por cidades

bps (- in / + out)

2019

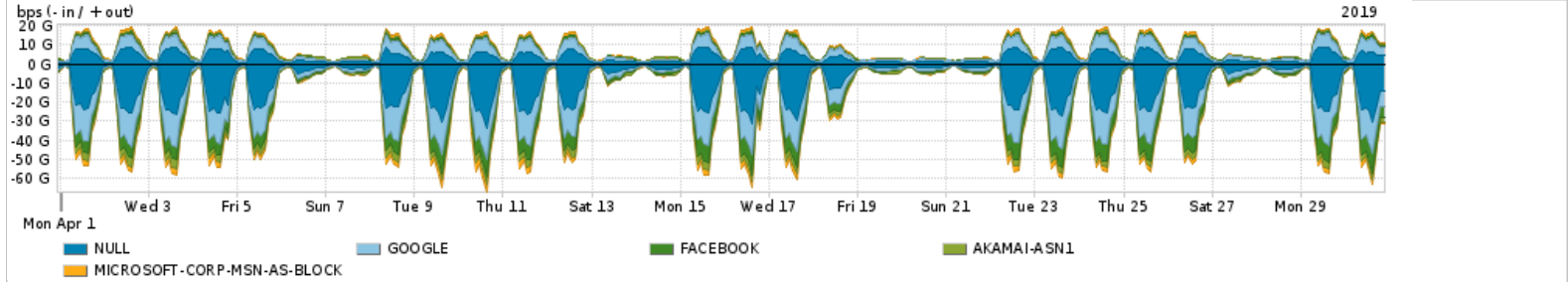


Average | Max | PCT95

	PROFILE	CITY	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	Internet_Academica	Unknown	13.79 Mbps	37.02 Mbps	50.81 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	Tallahassee	658.29 Kbps	30.86 Mbps	31.52 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	Potomac	508.78 Kbps	25.89 Mbps	26.39 Mbps
<input checked="" type="checkbox"/>	Internet_Academica	Unknown	13.18 Mbps	11.23 Mbps	24.41 Mbps

	PROFILE	CITY	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	Internet_Academica	Boulder	490.69 Kbps	22.18 Mbps	22.67 Mbps
<input type="checkbox"/>	Internet_Academica	Laurel	388.20 Kbps	21.64 Mbps	22.03 Mbps
<input type="checkbox"/>	Internet_Academica	Unknown	18.00 Mbps	1.11 Mbps	19.11 Mbps
<input type="checkbox"/>	Internet_Academica	Huntsville	259.89 Kbps	16.64 Mbps	16.90 Mbps
<input type="checkbox"/>	Internet_Academica	Unknown	5.87 Mbps	10.99 Mbps	16.85 Mbps
<input type="checkbox"/>	Internet_Academica	Unknown	227.61 Kbps	11.35 Mbps	11.58 Mbps

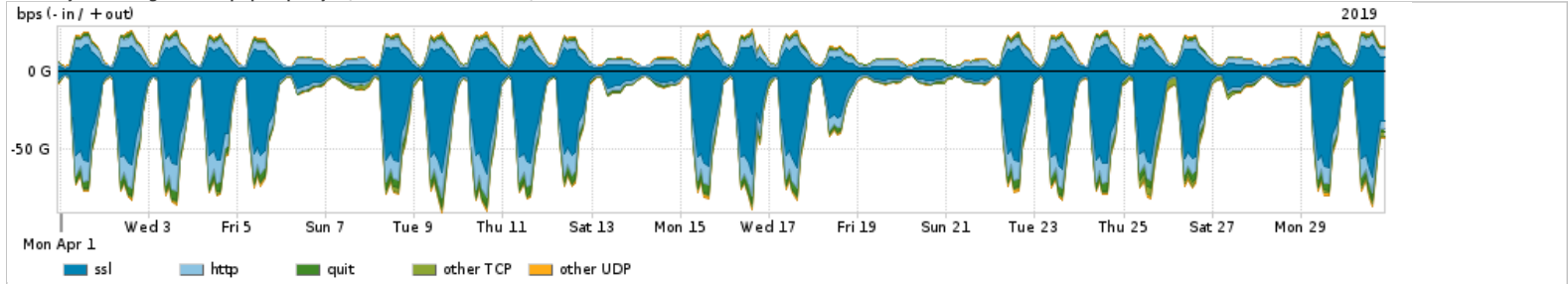
Redes (AS's de origem) mais acessadas pelos clientes da RNP sob o ponto de vista do AS1916



Average | Max | PCT95

	AS NAME	ASN	IN	OUT	TOTAL
<input checked="" type="checkbox"/>	NULL	0	9.62 Gbps	3.18 Gbps	12.79 Gbps
<input checked="" type="checkbox"/>	GOOGLE	15169	5.93 Gbps	3.01 Gbps	8.94 Gbps
<input checked="" type="checkbox"/>	FACEBOOK	32934	3.09 Gbps	416.54 Mbps	3.51 Gbps
<input checked="" type="checkbox"/>	AKAMAI-ASN1	20940	1.62 Gbps	646.49 Mbps	2.27 Gbps
<input checked="" type="checkbox"/>	MICROSOFT-CORP-MSN-AS-BLOCK	8068	1.10 Gbps	521.53 Mbps	1.63 Gbps
<input type="checkbox"/>	AMAZON-02	16509	1.02 Gbps	224.78 Mbps	1.24 Gbps
<input type="checkbox"/>	CLARO	28573	217.65 Mbps	933.00 Mbps	1.15 Gbps
<input type="checkbox"/>	EDGECAST	15133	1.04 Gbps	27.05 Mbps	1.06 Gbps
<input type="checkbox"/>	SSI	2906	882.01 Mbps	27.70 Mbps	909.71 Mbps
<input type="checkbox"/>	MICROSOFT-CORP-MSN-AS-BLOCK	8075	385.58 Mbps	437.74 Mbps	823.32 Mbps
<input type="checkbox"/>	GCEPSA-BR	28604	595.73 Mbps	26.01 Mbps	621.75 Mbps
<input type="checkbox"/>	LVLT-3549	3549	596.40 Mbps	25.34 Mbps	621.74 Mbps
<input type="checkbox"/>	APPLE-ENGINEERING	714	224.18 Mbps	388.24 Mbps	612.42 Mbps
<input type="checkbox"/>	FR-RENATER	2200	606.76 Mbps	1.38 Mbps	608.13 Mbps
<input type="checkbox"/>	TELEFONICA-BRASIL-SA-BR	18881	94.38 Mbps	446.79 Mbps	541.17 Mbps

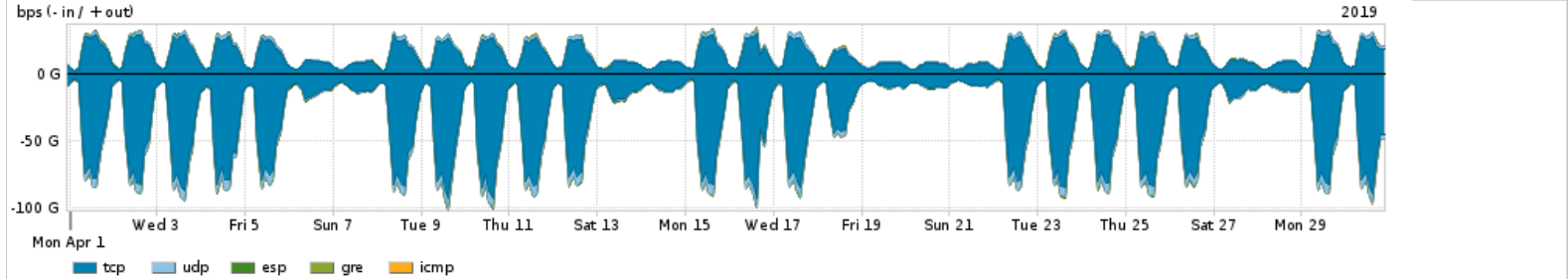
Distribuição do tráfego da rede Ipê por aplicação (análise nas camadas 3 e 4)



Average | Max | PCT95


APPLICATION	IN	OUT	TOTAL
<input checked="" type="checkbox"/> ssl	22.32 Gbps	7.14 Gbps	29.45 Gbps
<input checked="" type="checkbox"/> http	5.30 Gbps	3.44 Gbps	8.74 Gbps
<input checked="" type="checkbox"/> quit	1.84 Gbps	565.41 Mbps	2.40 Gbps
<input checked="" type="checkbox"/> other TCP	1.12 Gbps	548.58 Mbps	1.67 Gbps
<input checked="" type="checkbox"/> other UDP	633.83 Mbps	646.12 Mbps	1.28 Gbps
<input type="checkbox"/> ssh	89.81 Mbps	88.23 Mbps	178.04 Mbps
<input type="checkbox"/> rsync	70.53 Mbps	65.48 Mbps	136.00 Mbps
<input type="checkbox"/> dns	38.46 Mbps	32.91 Mbps	71.37 Mbps
<input type="checkbox"/> stun	34.12 Mbps	32.96 Mbps	67.09 Mbps
<input type="checkbox"/> smtp	24.65 Mbps	41.22 Mbps	65.87 Mbps

Distribuição do tráfego da rede Ipê por protocolo



Average | Max | PCT95

PROTOCOL	IN	OUT	TOTAL
<input checked="" type="checkbox"/> tcp	33.06 Gbps	14.02 Gbps	47.07 Gbps
<input checked="" type="checkbox"/> udp	2.77 Gbps	1.38 Gbps	4.16 Gbps
<input checked="" type="checkbox"/> esp	135.86 Mbps	40.36 Mbps	176.22 Mbps
<input checked="" type="checkbox"/> gre	20.06 Mbps	131.32 Mbps	151.37 Mbps
<input checked="" type="checkbox"/> icmp	21.95 Mbps	23.33 Mbps	45.28 Mbps
<input type="checkbox"/> ipv6-icmp	1.89 Mbps	3.36 Mbps	5.26 Mbps
<input type="checkbox"/> ipv6	2.41 Mbps	2.18 Mbps	4.59 Mbps
<input type="checkbox"/> sctp	50.63 Kbps	30.00 bps	50.66 Kbps
<input type="checkbox"/> bbn-rcc	5.58 Kbps	0.00 bps	5.58 Kbps

	PROTOCOL	IN	OUT	TOTAL
<input type="checkbox"/>	dcep	5.57 Kbps	0.00 bps	5.57 Kbps

For assistance with this product, please contact support at <https://support.arbornetworks.com>