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Stephan Michard

2017−03−02

Introduction

Find herein a summary of the provided RV_Tools.

The following profiles were considered:

Large: VM's with 6 vCPU or more

Medium: VM's with less than 6 vCPU and more than 2 vCPU

Small: VM's with 2 vCPU or less.

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Overview for 5 Datacenter

Datacenter	# Hosts	# VM's	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
ELS	17	242	659	2389.7	55993.4	64982.9	86.2
CHA	8	109	274	1103.7	29534.4	34076.5	86.7
GOL	7	75	272	710.7	20793.1	21890.8	95
STA	1	18	32	94.2	1541.4	2185.5	70.5
SOT	1	11	20	61.4	1023.1	1111.6	92

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Summary of collected components

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Large	48	41	7	85.4	402	1458.2	29005.7	35108.4	82.6
Medium	60	52	8	86.7	240	825.3	21482.1	22974.9	93.5
Small	347	282	65	81.3	615	2076.2	58397.6	66164.1	88.3
Total	455	375	80	82.4	1257	4359.7	108885.4	124247.4	87.6

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Average values of collected components

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Large	48	85.4	8.4	30.4	604.3	731.4
Medium	60	86.7	4	13.8	358	382.9
Small	347	81.3	1.8	6	168.3	190.7
Total	455	82.4	2.8	9.6	239.3	273.1

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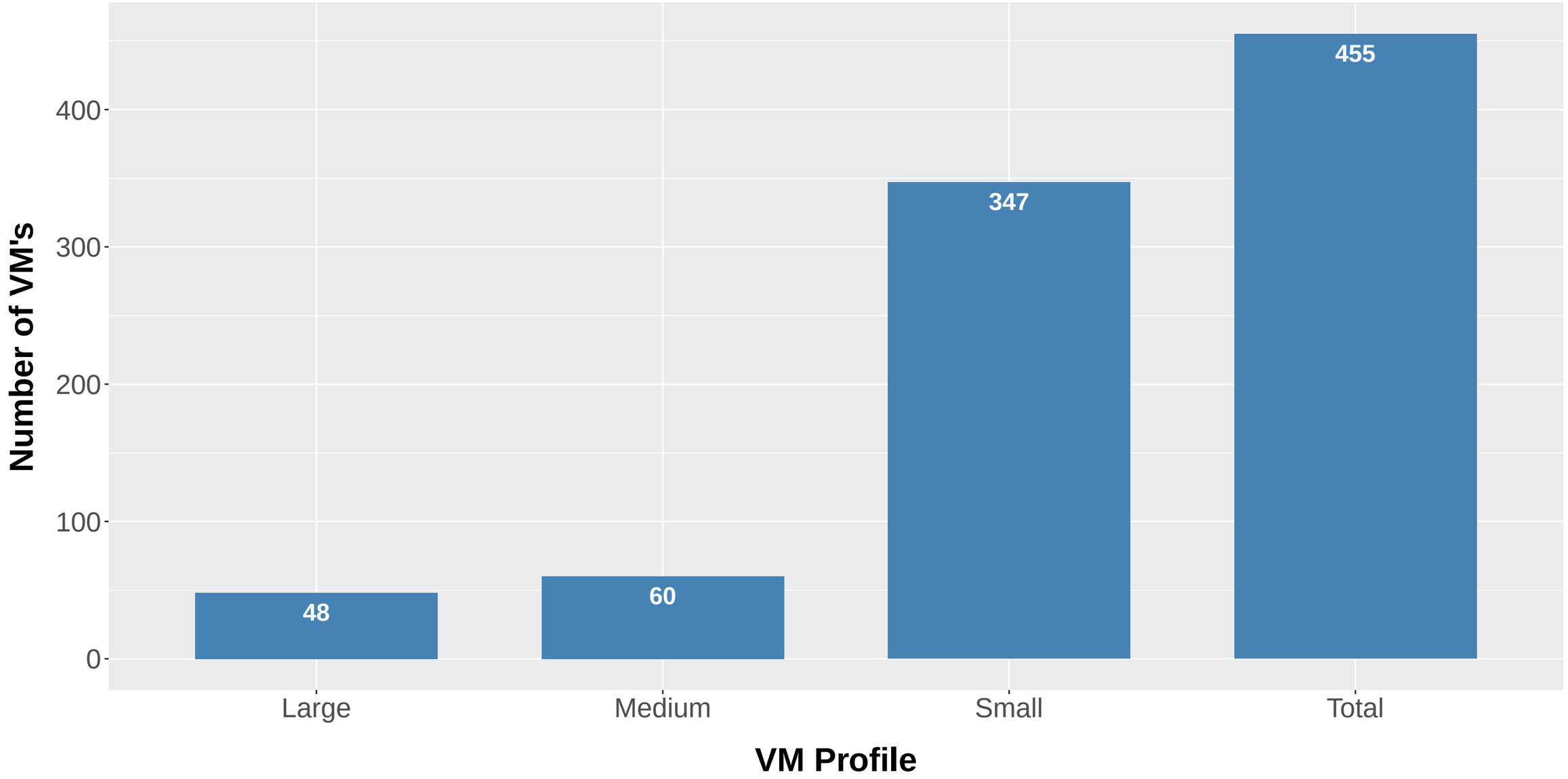
Number of VM's for each profile



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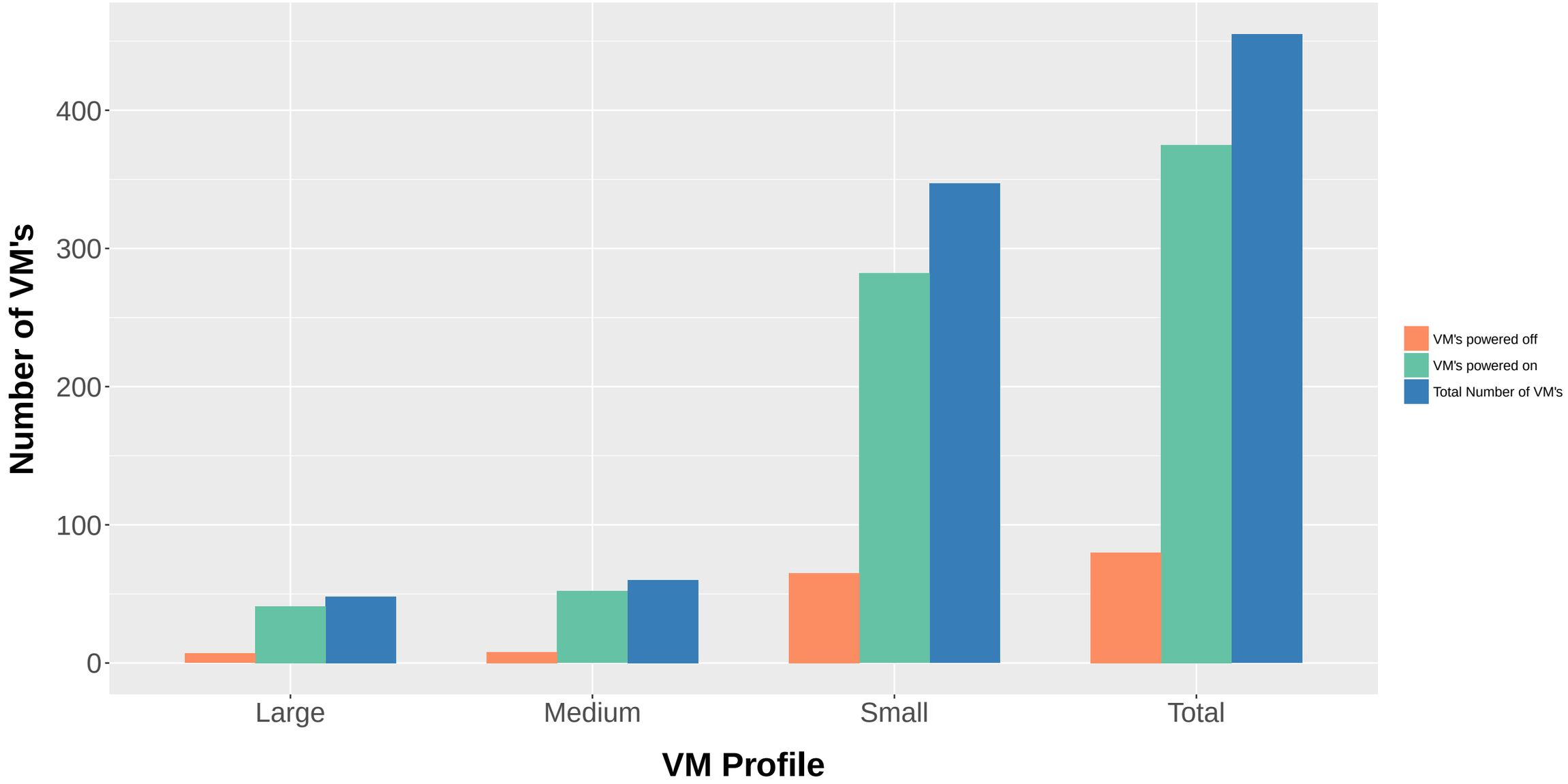
Overview of powered on / off VM's for each profile



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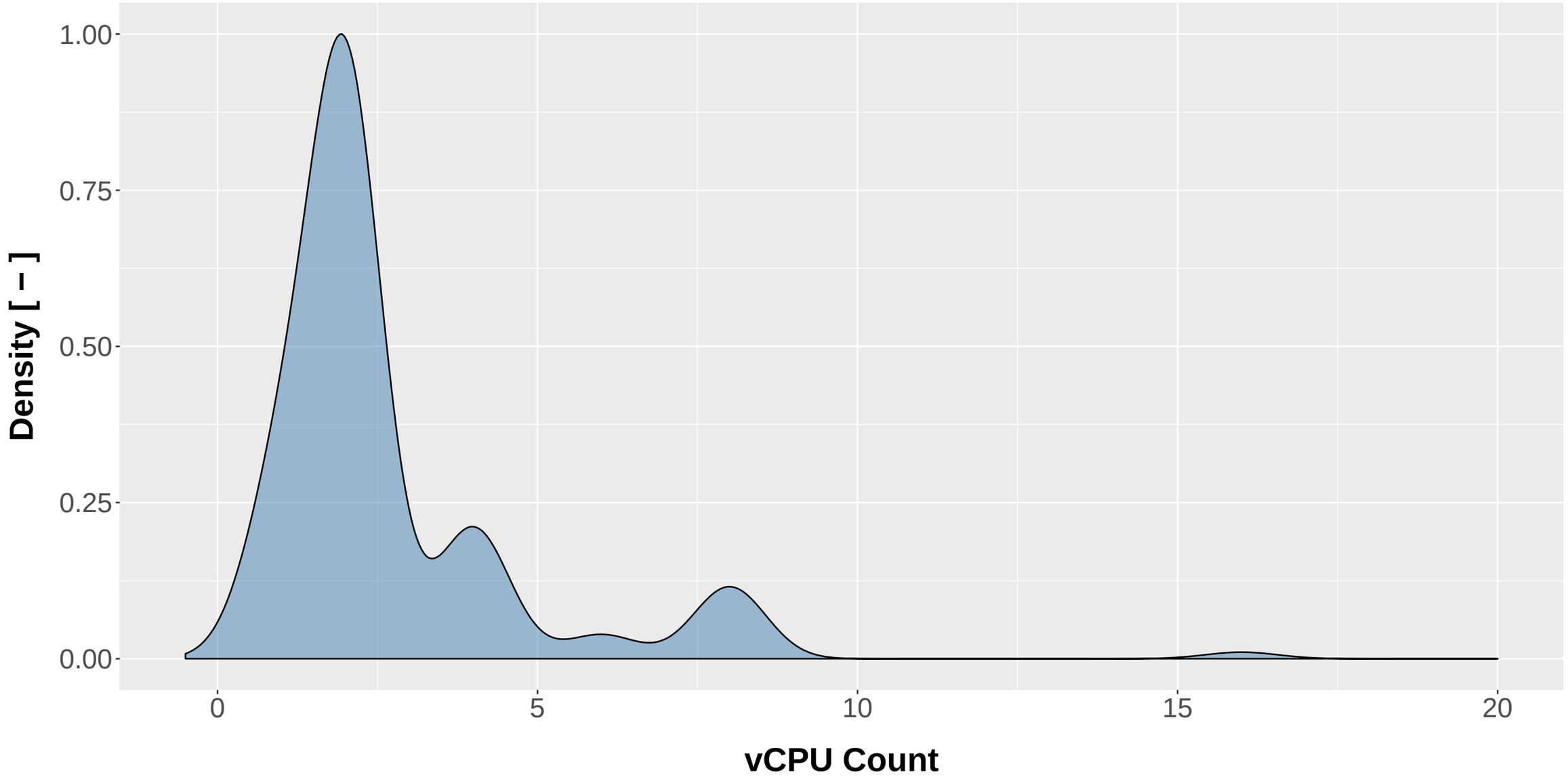
Distribution of vCPU for all VM's



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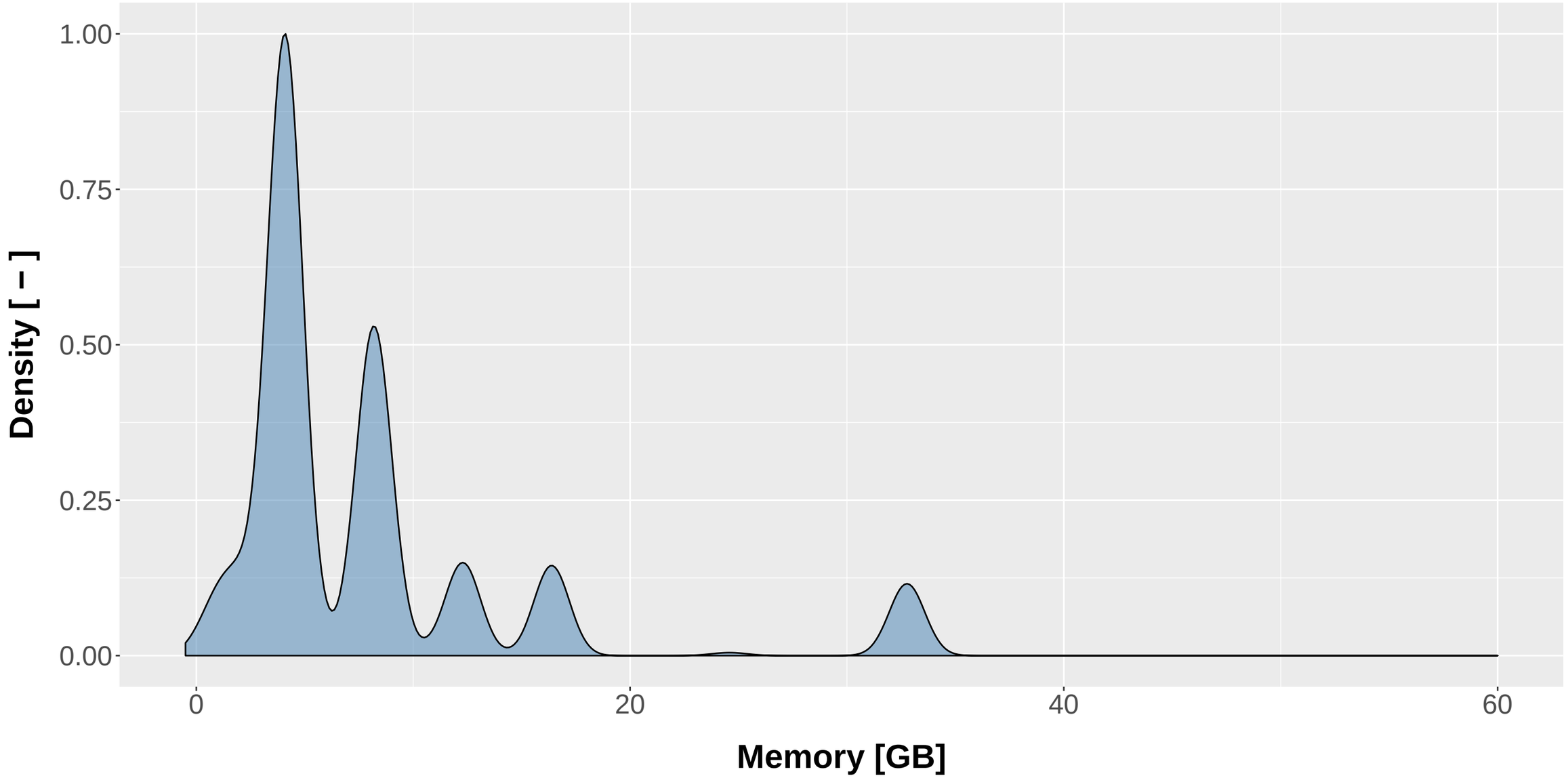
Distribution of Memory for all VM's



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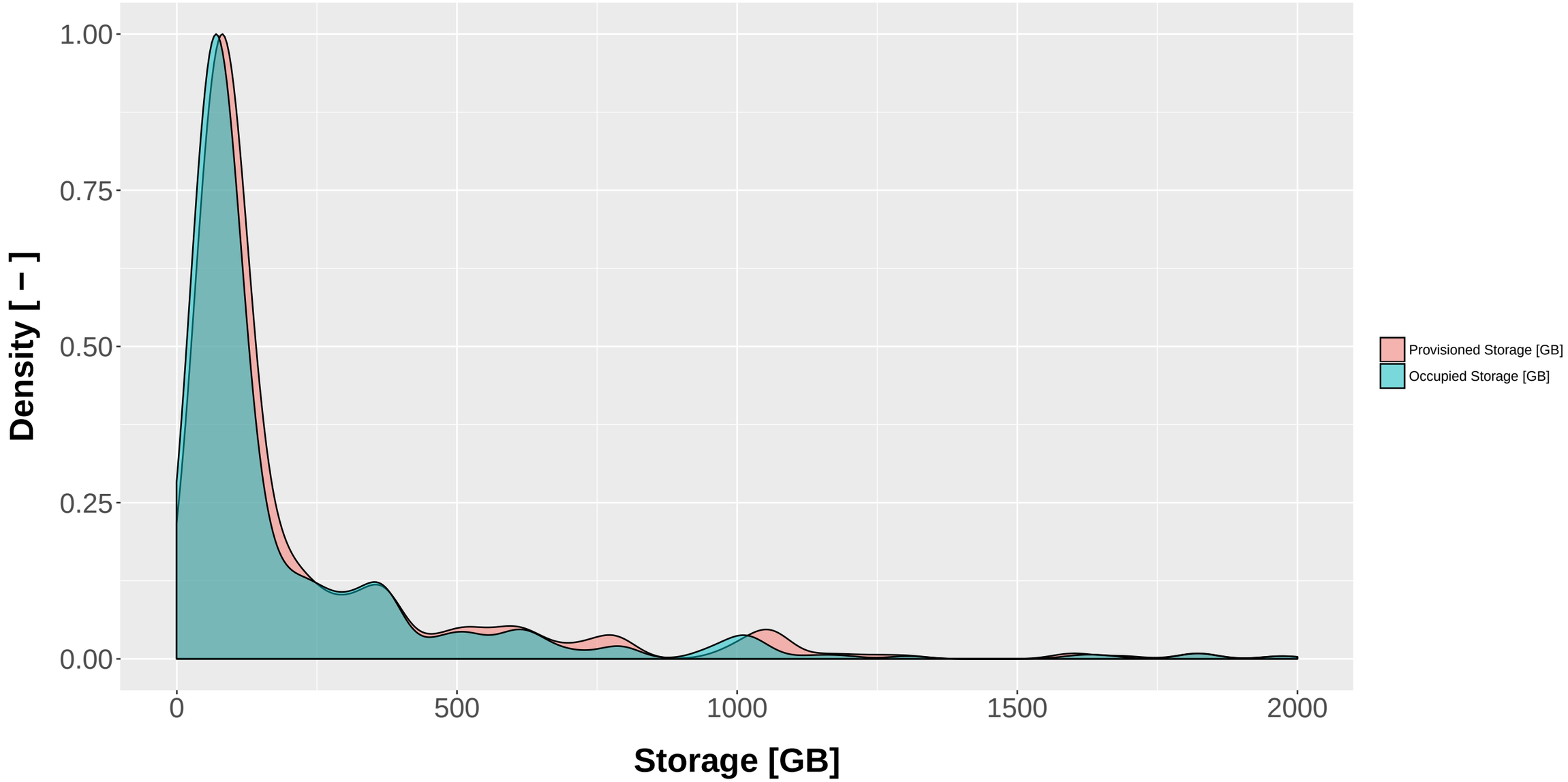
Distribution of occup. and provis. storage for all VM's



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Summary for Datacenter: ELS

Summary of collected components for: ELS

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Large	23	18	5	78.3	196	831.5	14305.4	17656	81
Medium	38	31	7	81.6	152	446.5	12251.6	13040.9	93.9
Small	181	144	37	79.6	311	1111.8	29436.4	34286	85.9
Total	242	193	49	79.8	659	2389.8	55993.4	64982.9	86.2

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Average values of collected components for: ELS

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Large	23	78.3	8.5	36.2	622	767.7
Medium	38	81.6	4	11.8	322.4	343.2
Small	181	79.6	1.7	6.1	162.6	189.4
Total	242	79.8	2.7	9.9	231.4	268.5

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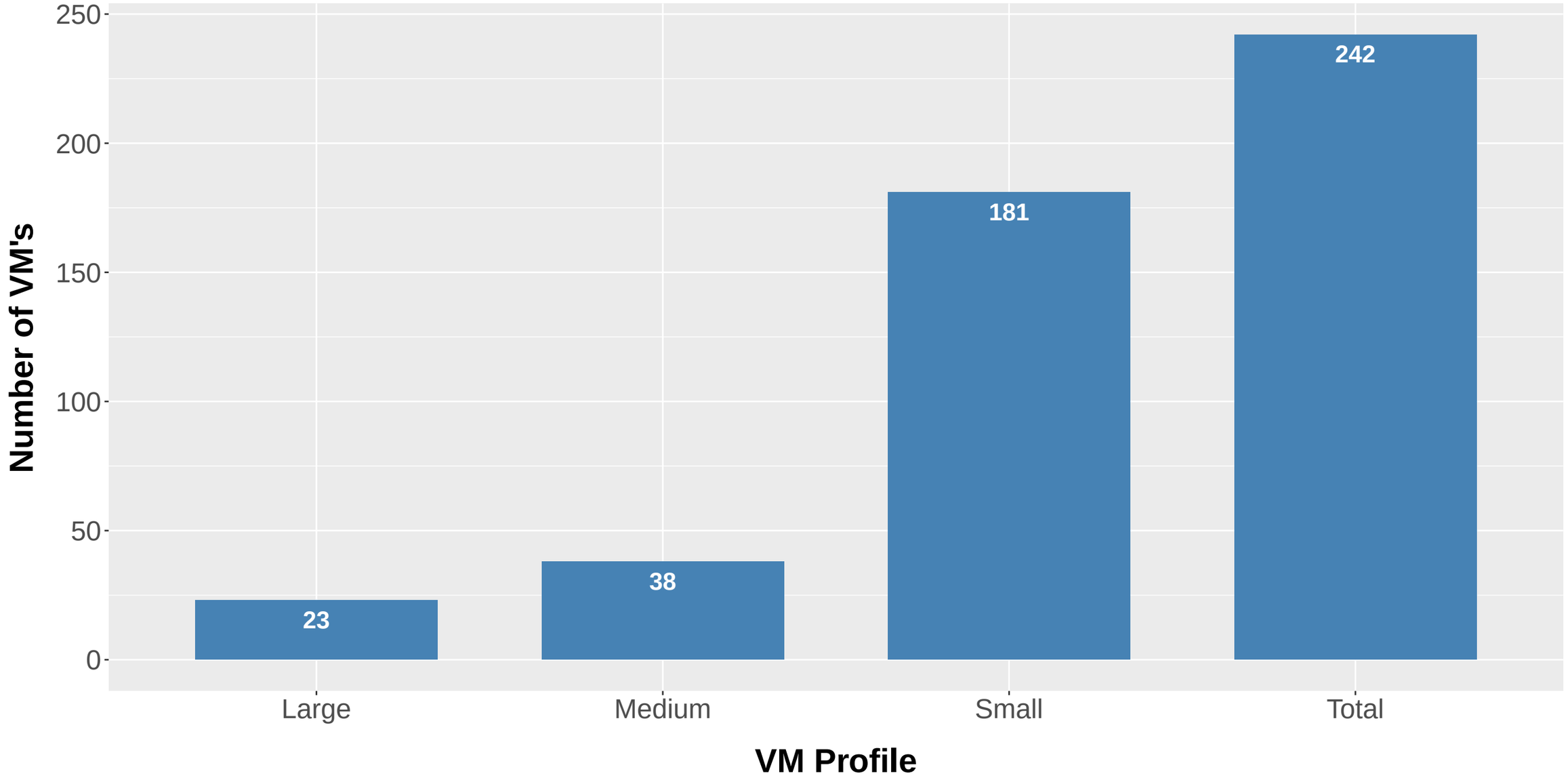
Number of VM's for each profile – ELS



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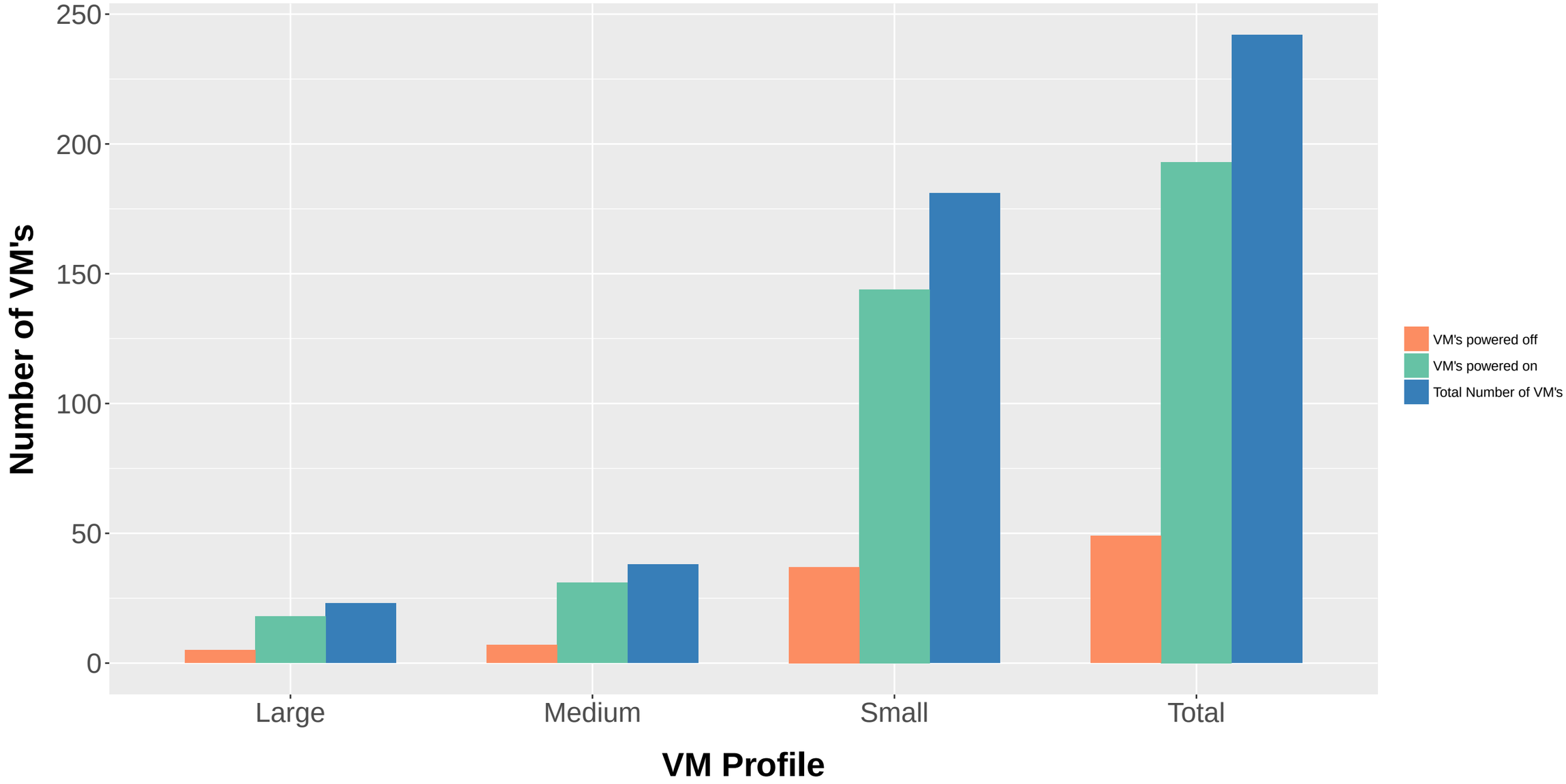
Overview of powered on / off VM's for each profile – ELS



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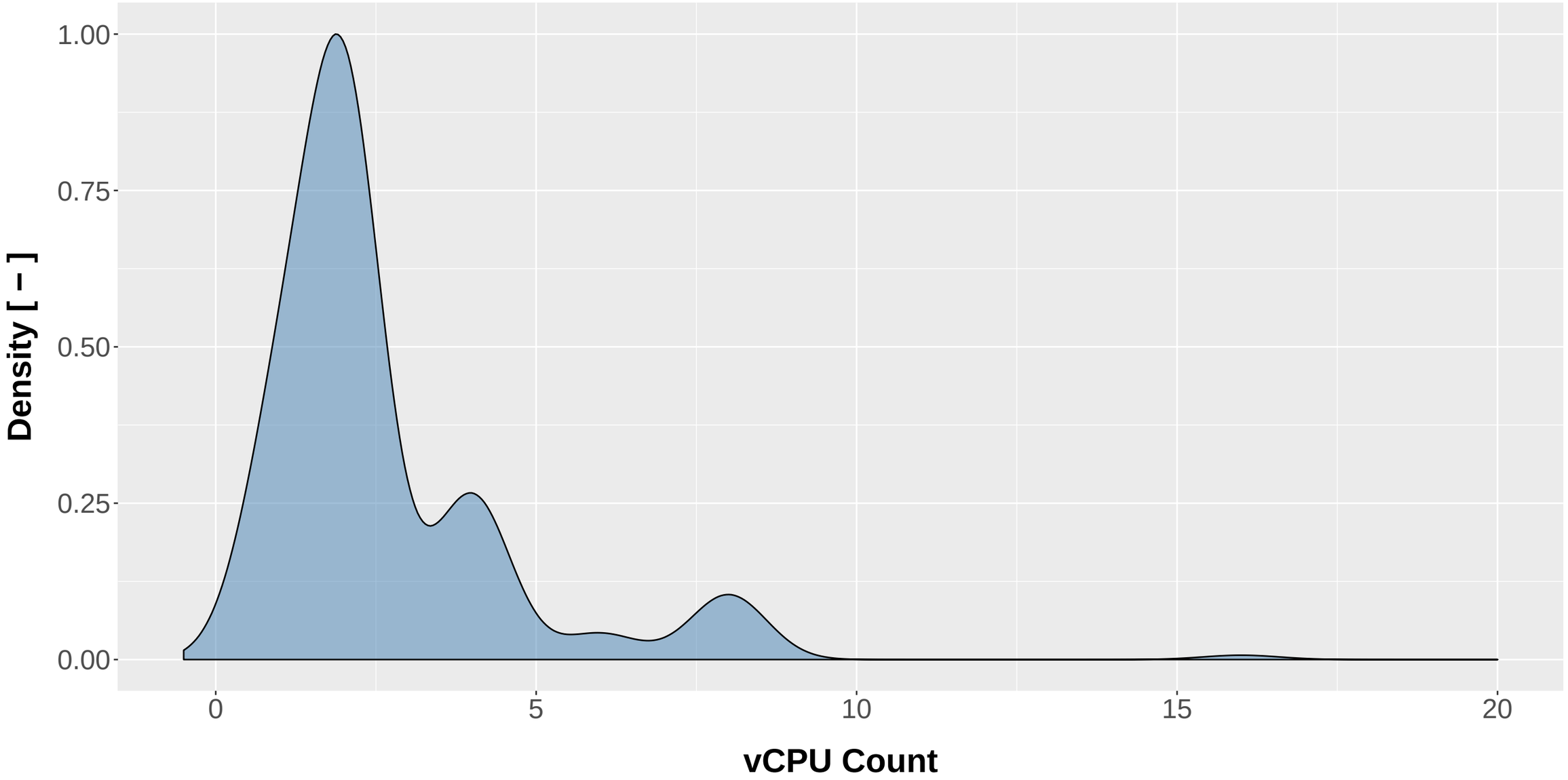
Distribution of vCPU for all VM's – ELS



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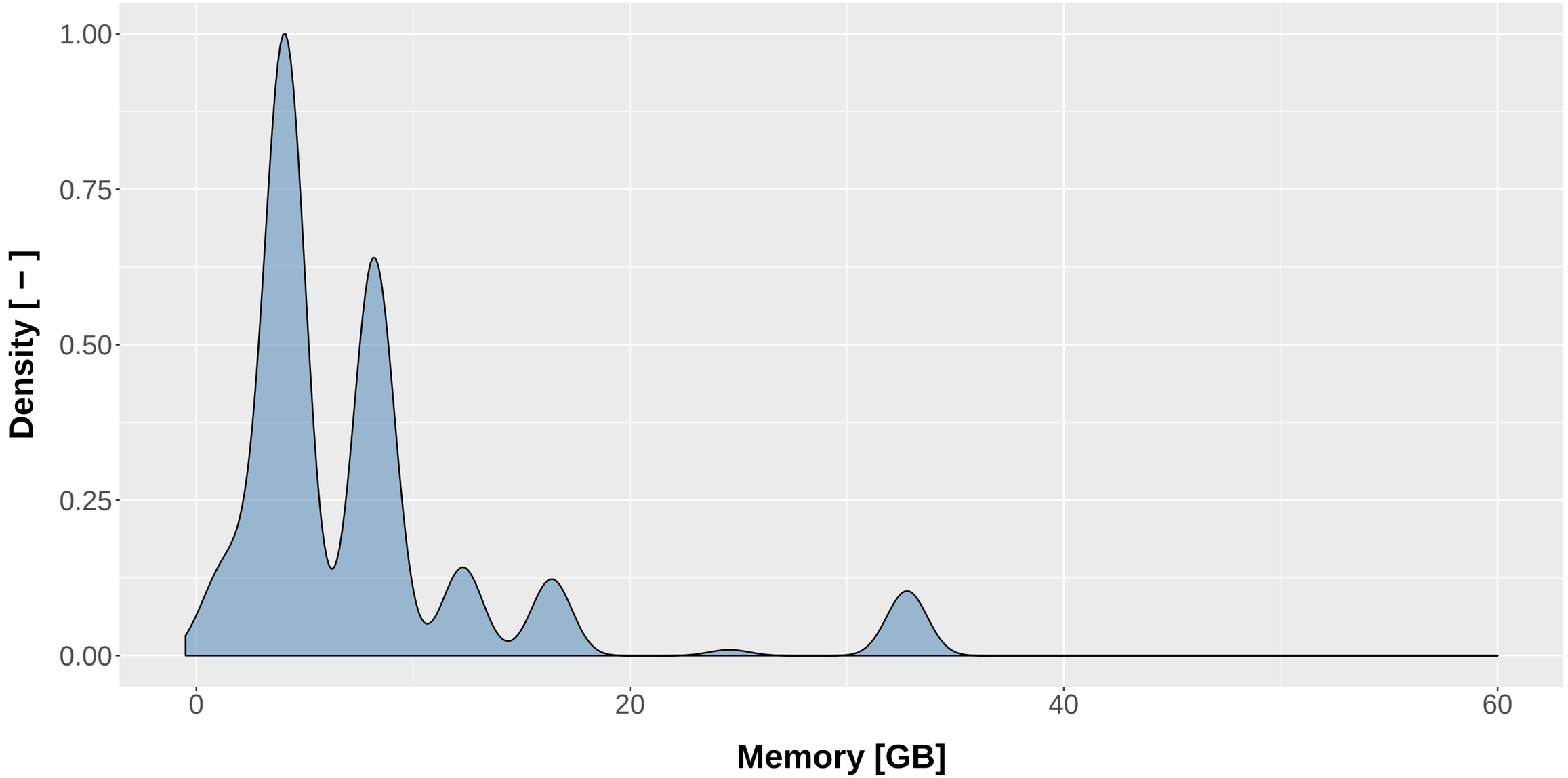
Distribution of Memory for all VM's – ELS



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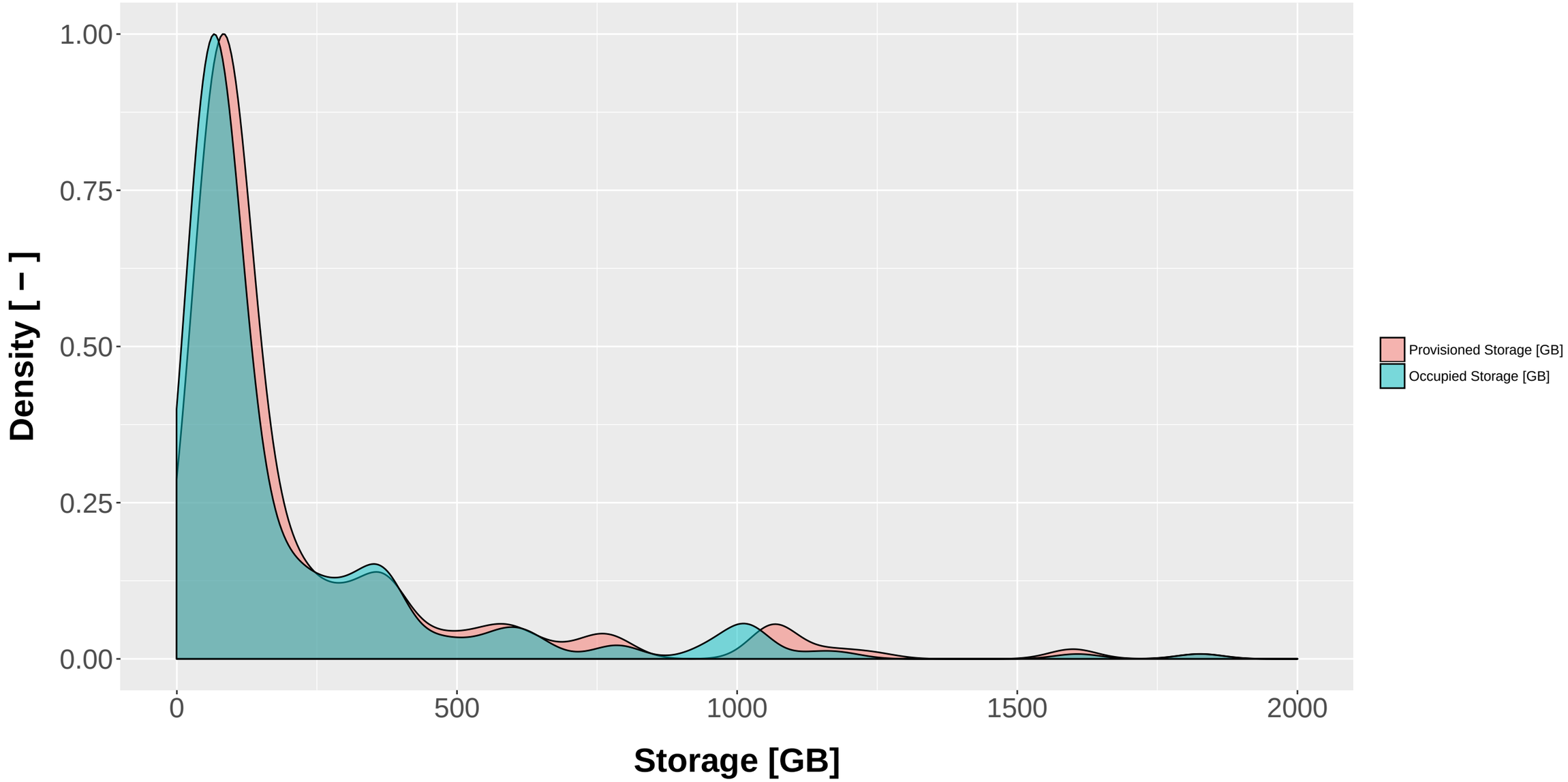
Distribution of occup. and provis. storage for all VM's – ELS



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Summary for Datacenter: CHA

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Summary of collected components for: CHA

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Large	4	4	0	100	32	167.9	1961.6	3819.2	51.4
Medium	21	20	1	95.2	84	370.7	9140.3	9843.7	92.9
Small	84	71	13	84.5	158	565.1	18432.5	20413.6	90.3
Total	109	95	14	87.2	274	1103.7	29534.4	34076.5	86.7

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Average values of collected components for: CHA

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Large	4	100	8	42	490.4	954.8
Medium	21	95.2	4	17.7	435.3	468.7
Small	84	84.5	1.9	6.7	219.4	243
Total	109	87.2	2.5	10.1	271	312.6

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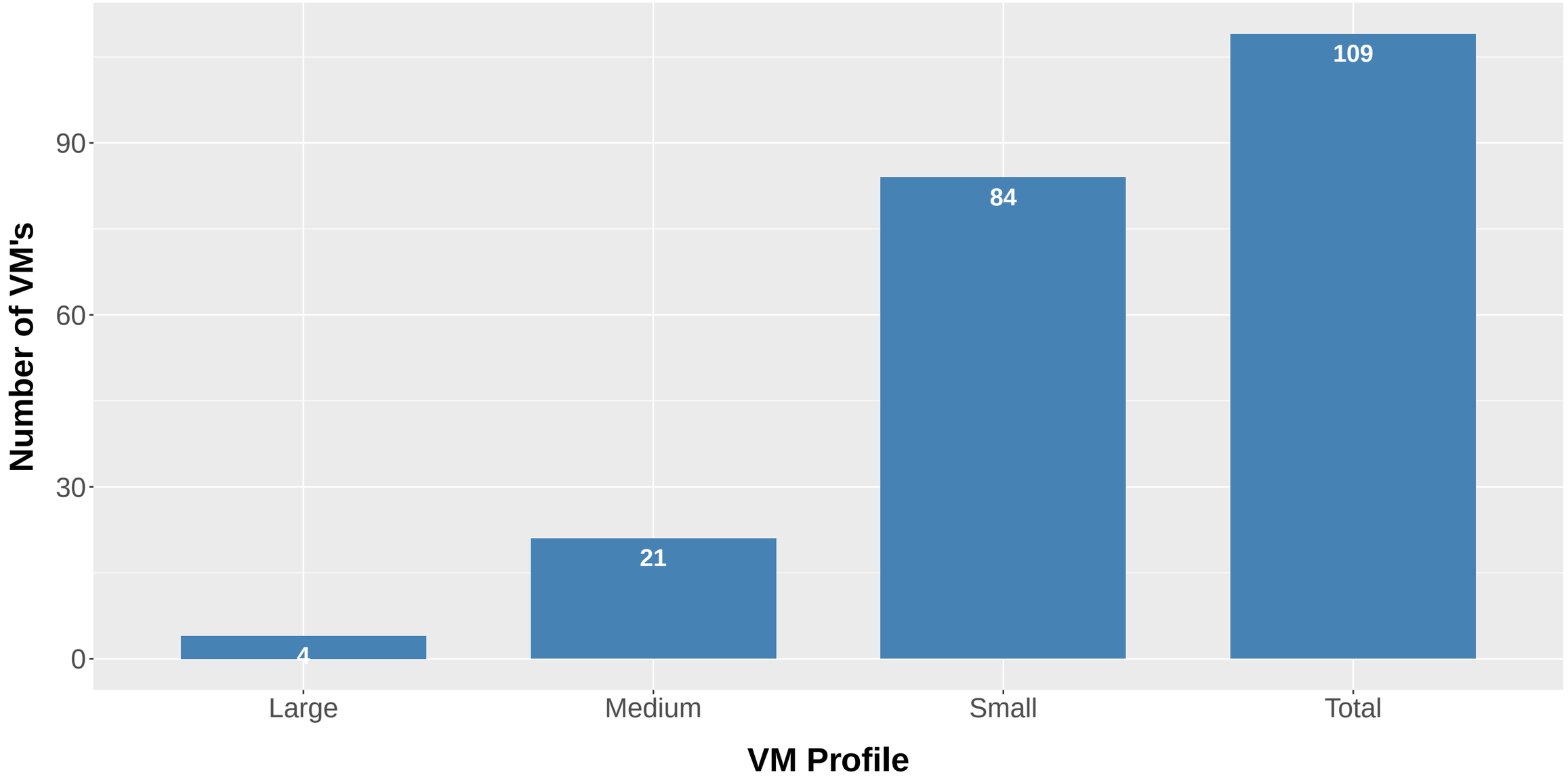
Number of VM's for each profile – CHA



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Overview of powered on / off VM's for each profile – CHA

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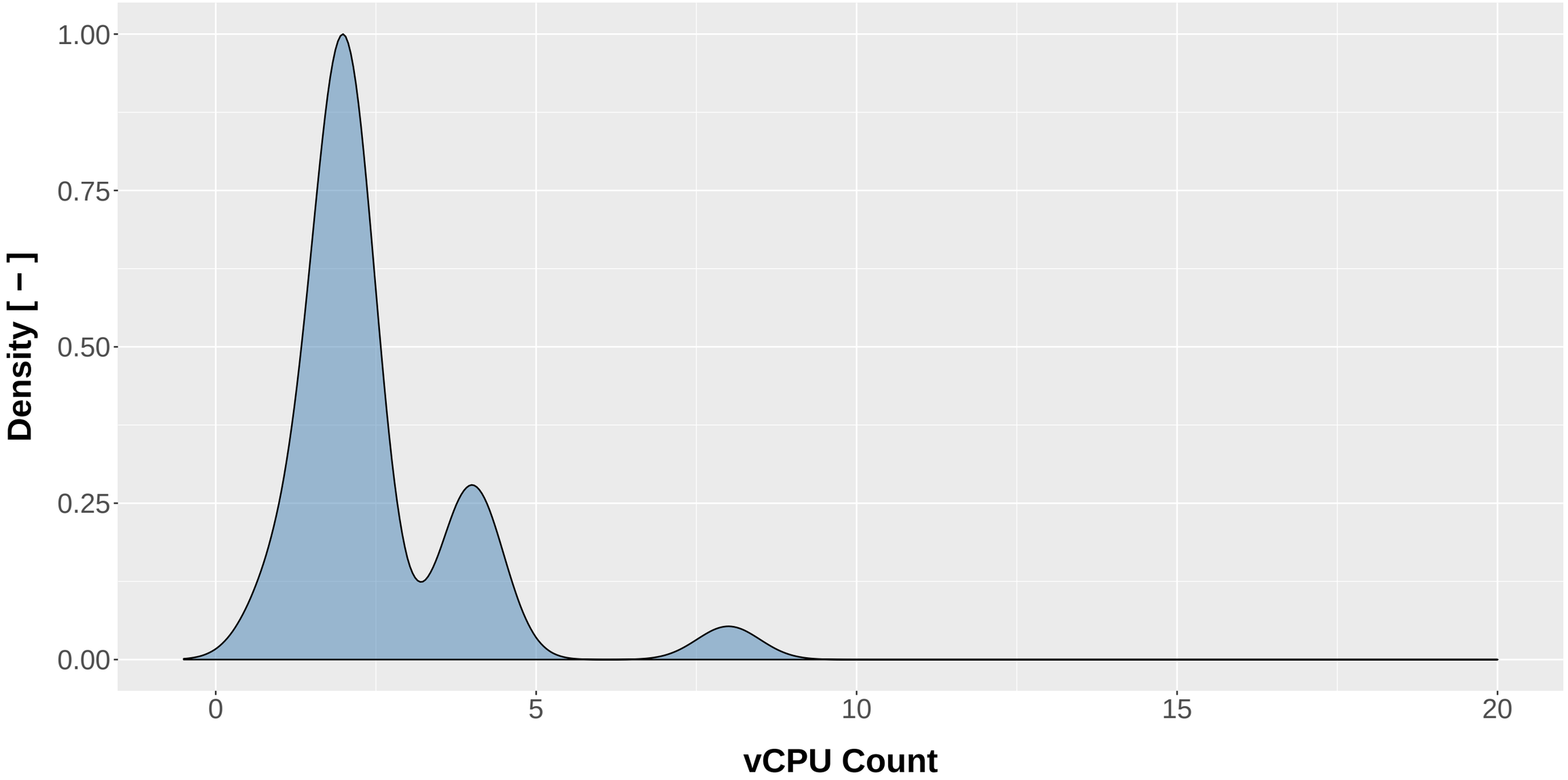
Distribution of vCPU for all VM's – CHA



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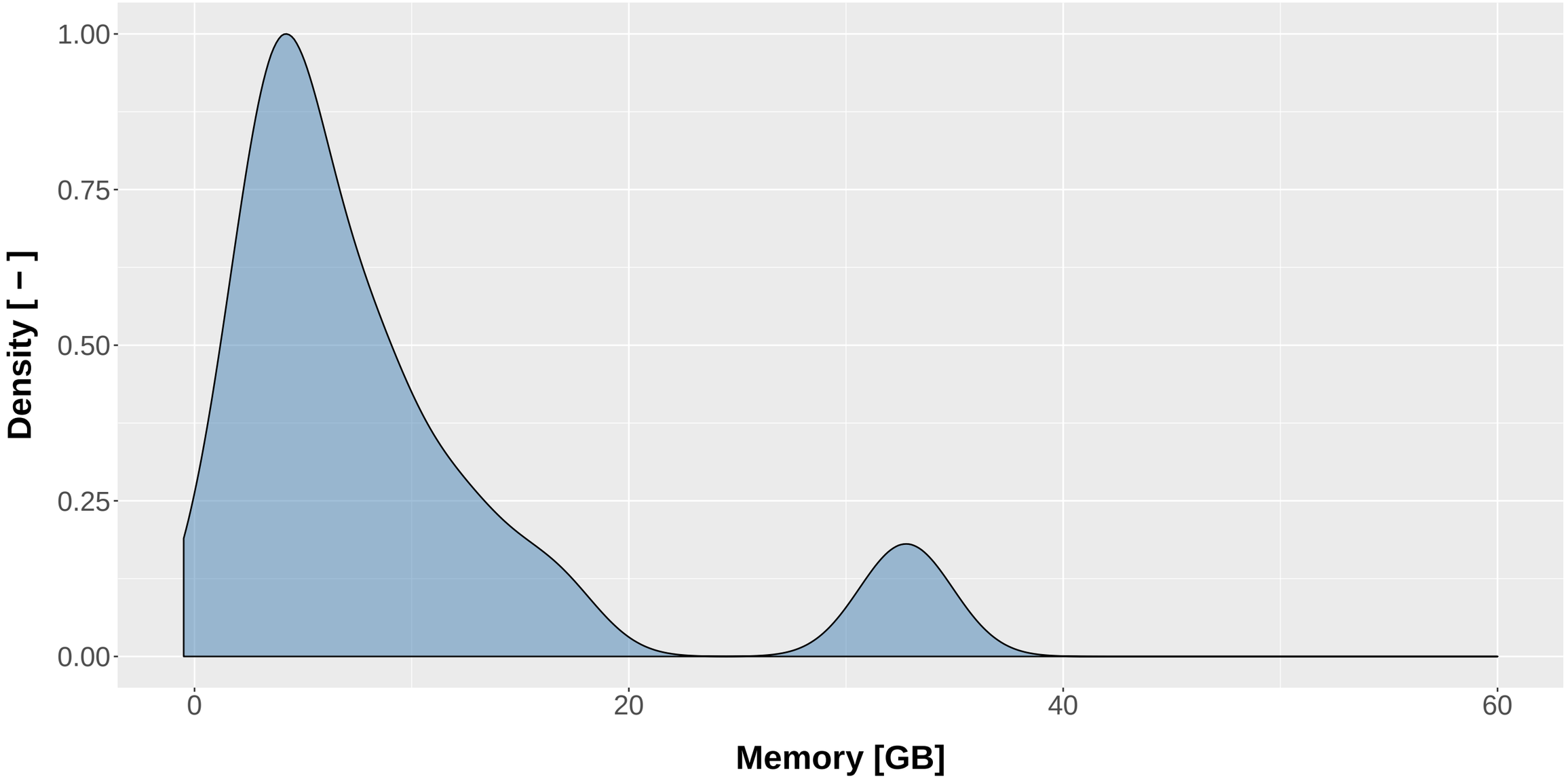
Distribution of Memory for all VM's – CHA



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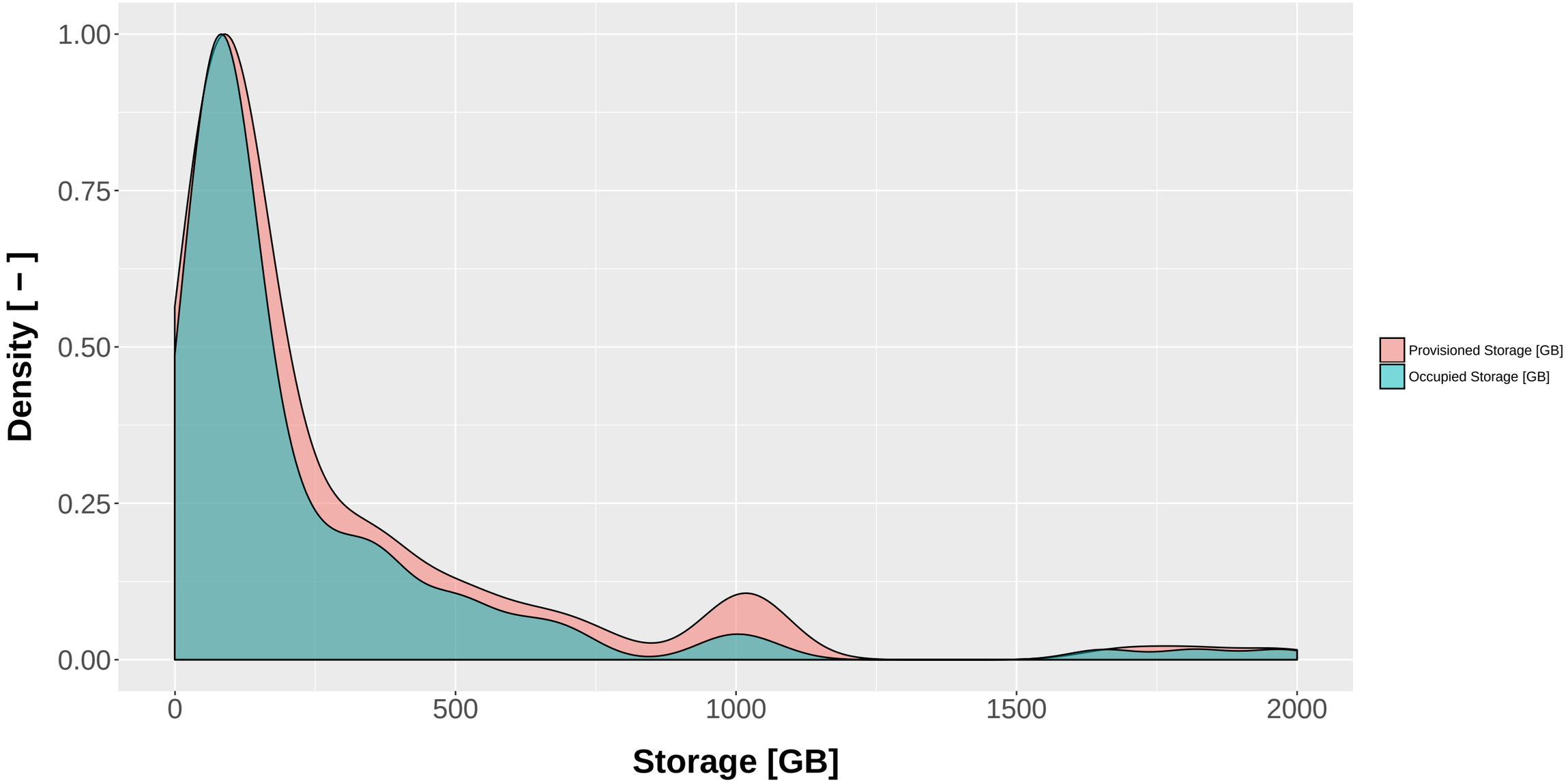
Distribution of occup. and provis. storage for all VM's – CHA



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Summary for Datacenter: GOL

Summary of collected components for: GOL

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Large	21	19	2	90.5	174	458.8	12738.7	13633.2	93.4
Medium	1	1	0	100	4	8.2	90.2	90.2	100
Small	53	45	8	84.9	94	243.7	7964.1	8167.3	97.5
Total	75	65	10	86.7	272	710.7	20793	21890.7	95

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Average values of collected components for: GOL

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Large	21	90.5	8.3	21.8	606.6	649.2
Medium	1	100	4	8.2	90.2	90.2
Small	53	84.9	1.8	4.6	150.3	154.1
Total	75	86.7	3.6	9.5	277.2	291.9

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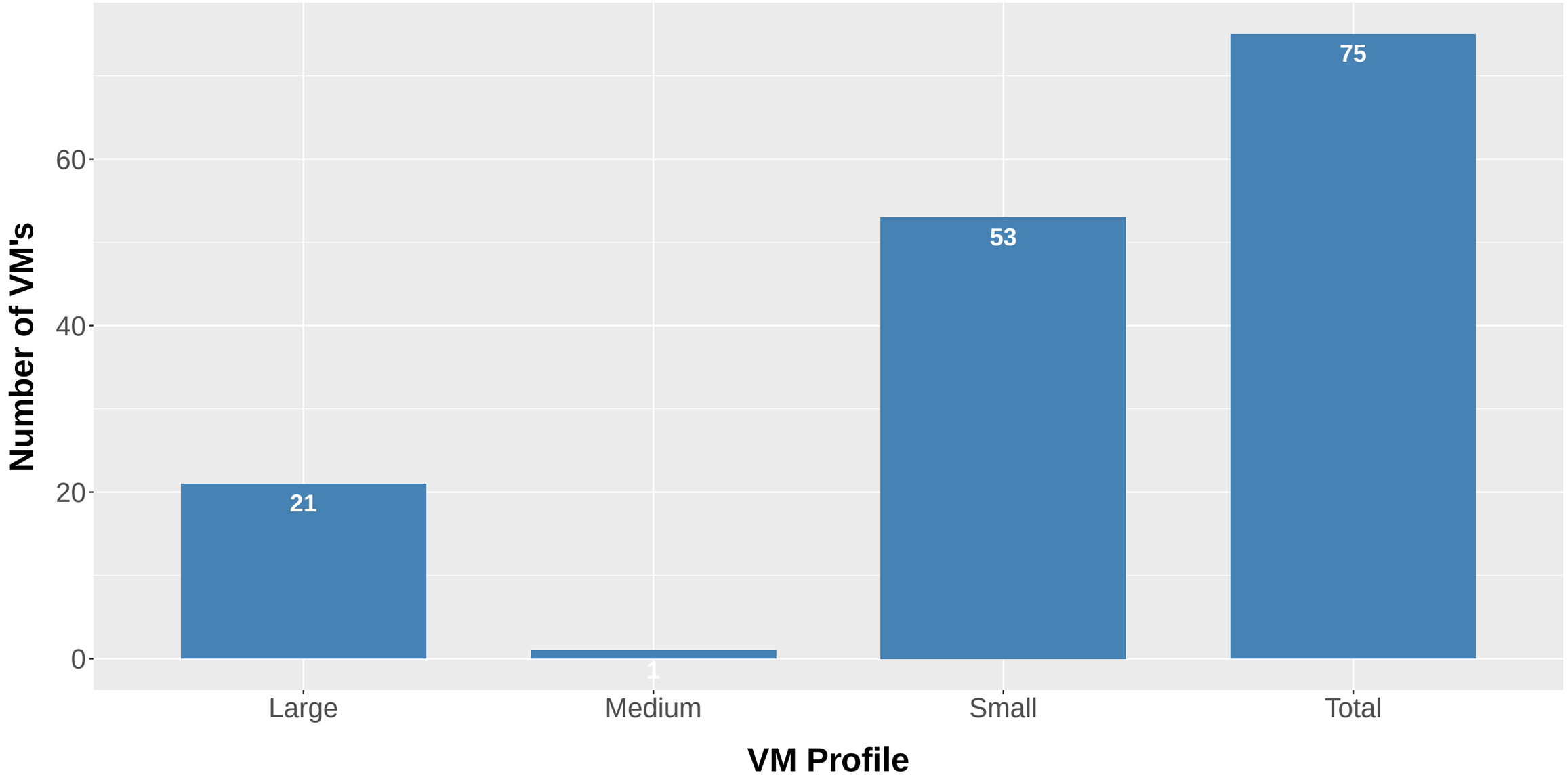
Number of VM's for each profile – GOL



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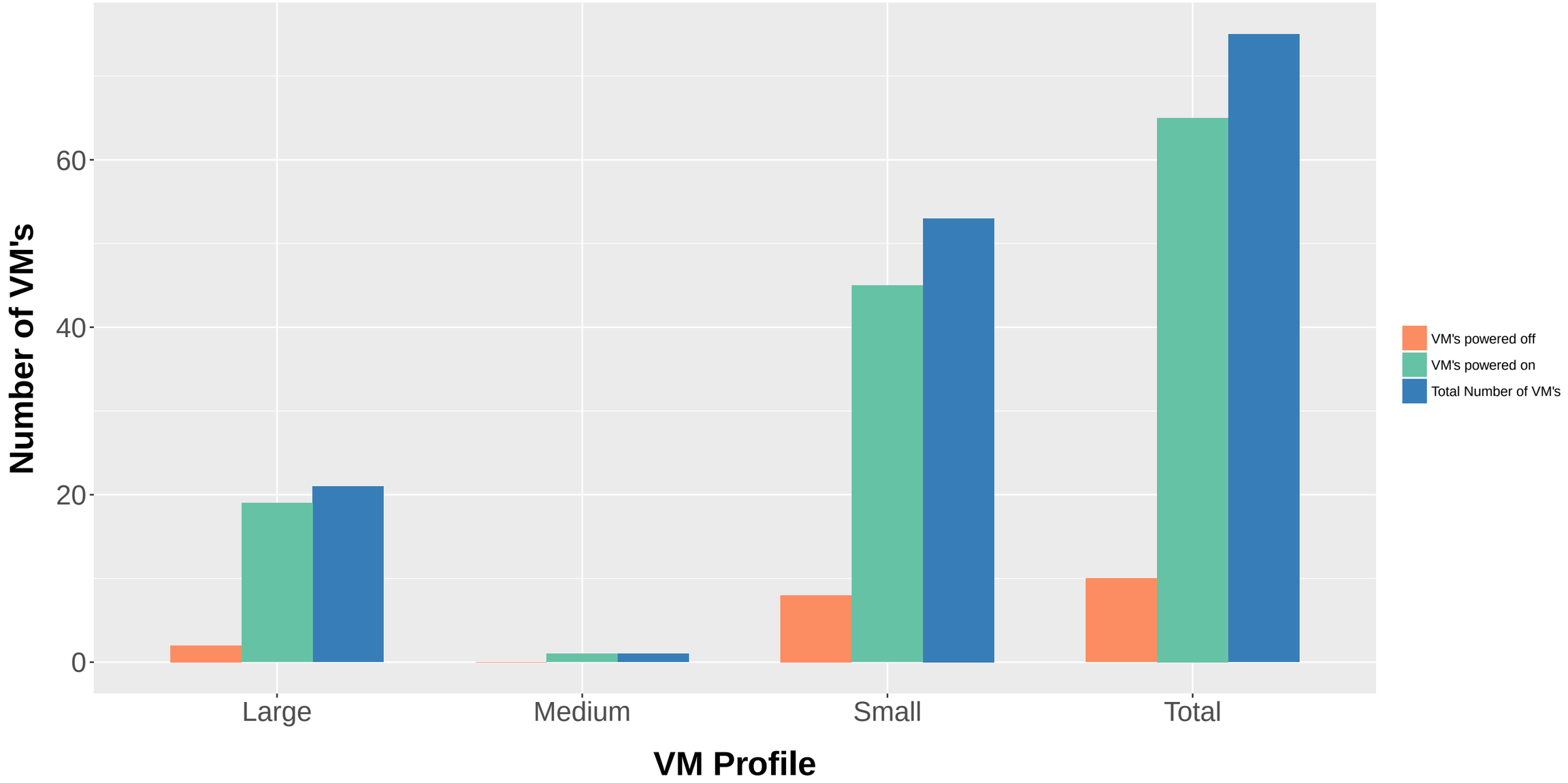
Overview of powered on / off VM's for each profile – GOL



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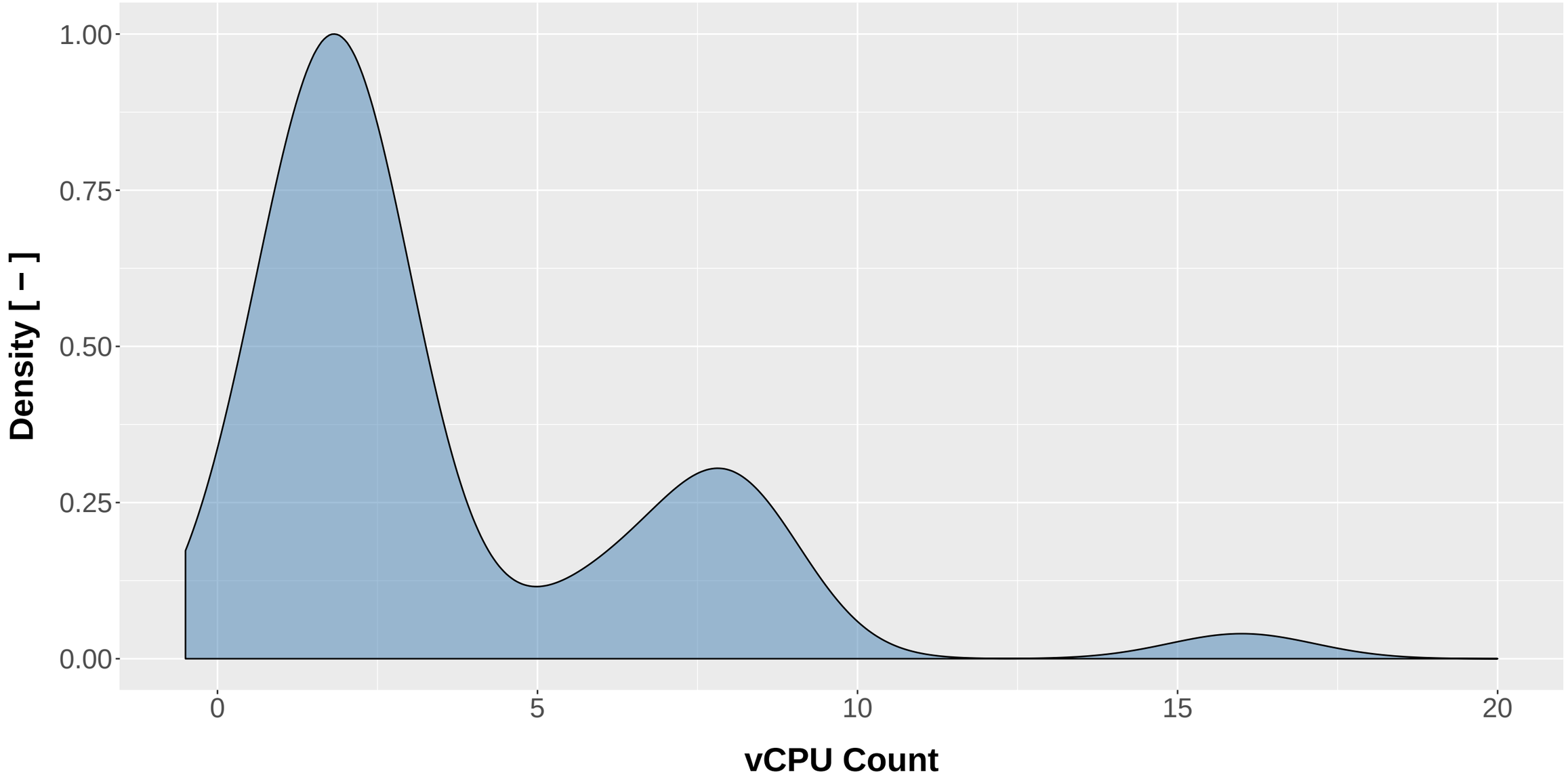
Distribution of vCPU for all VM's – GOL



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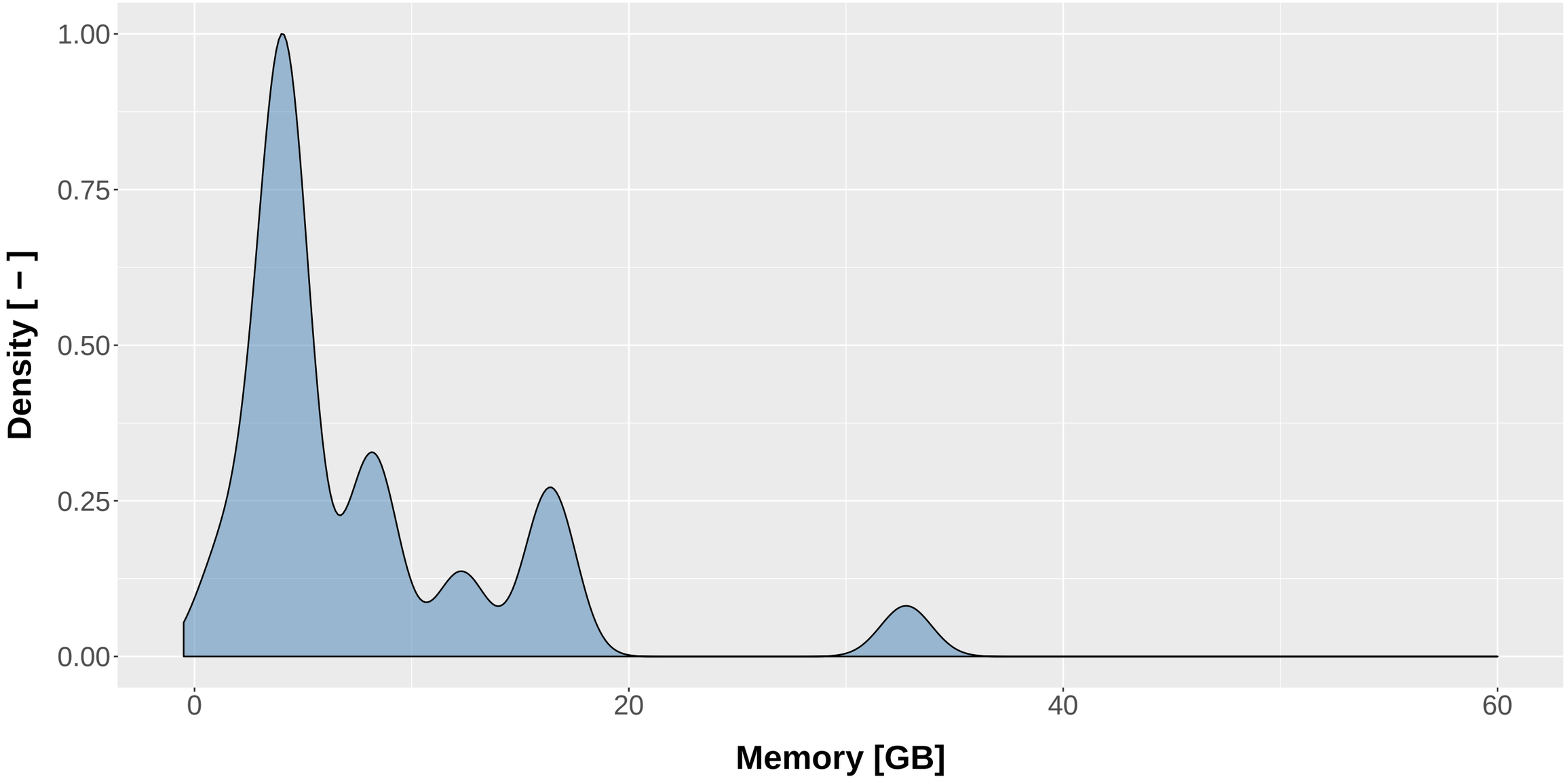
Distribution of Memory for all VM's − GOL



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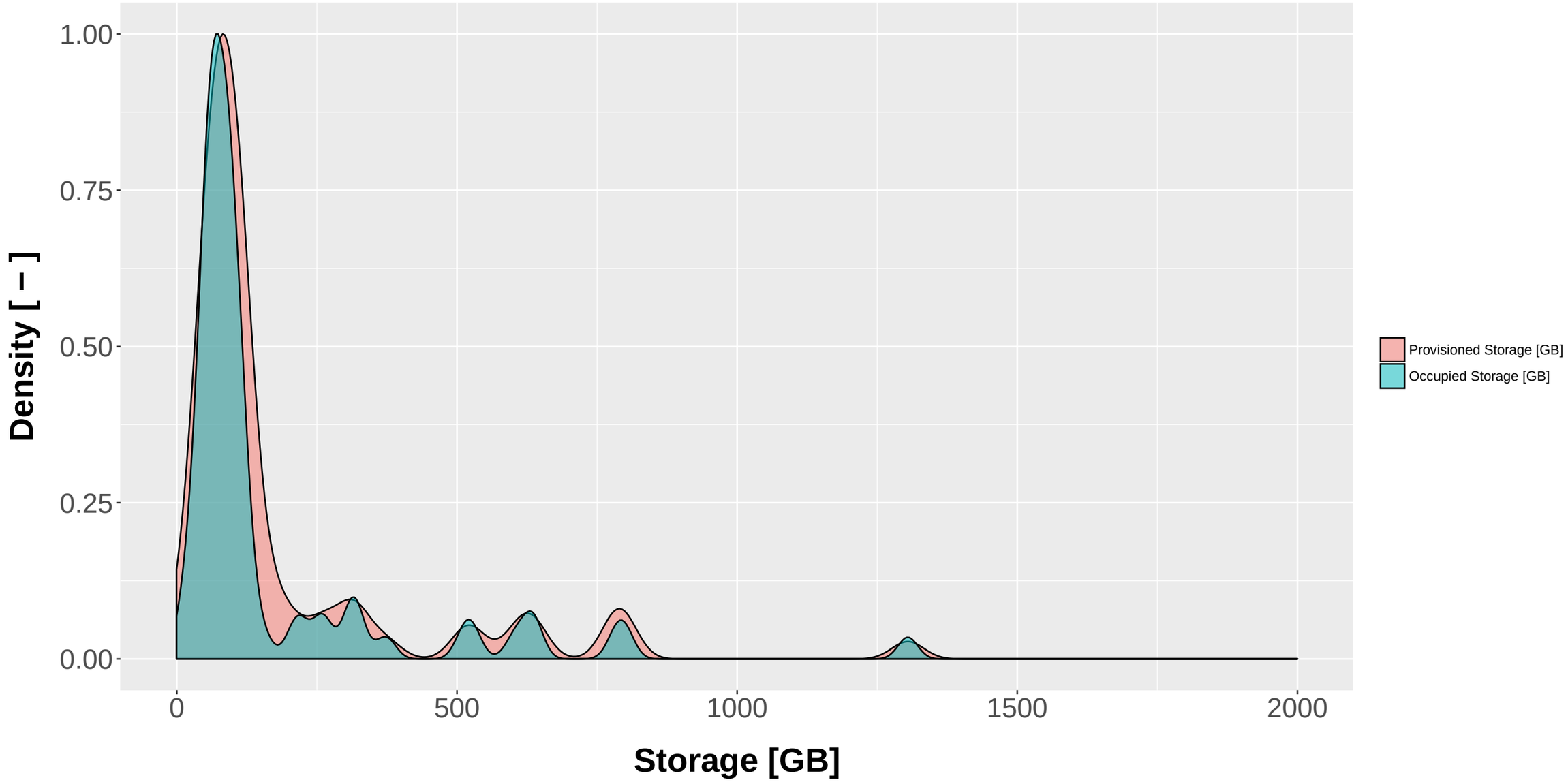
Distribution of occup. and provis. storage for all VM's – GOL



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Summary for Datacenter: SOT

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Summary of collected components for: SOT

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Small	11	8	3	72.7	20	61.4	1023.1	1111.6	92
Total	11	8	3	72.7	20	61.4	1023.1	1111.6	92

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Average values of collected components for: SOT

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Small	11	72.7	1.8	5.6	93	101.1
Total	11	72.7	1.8	5.6	93	101.1

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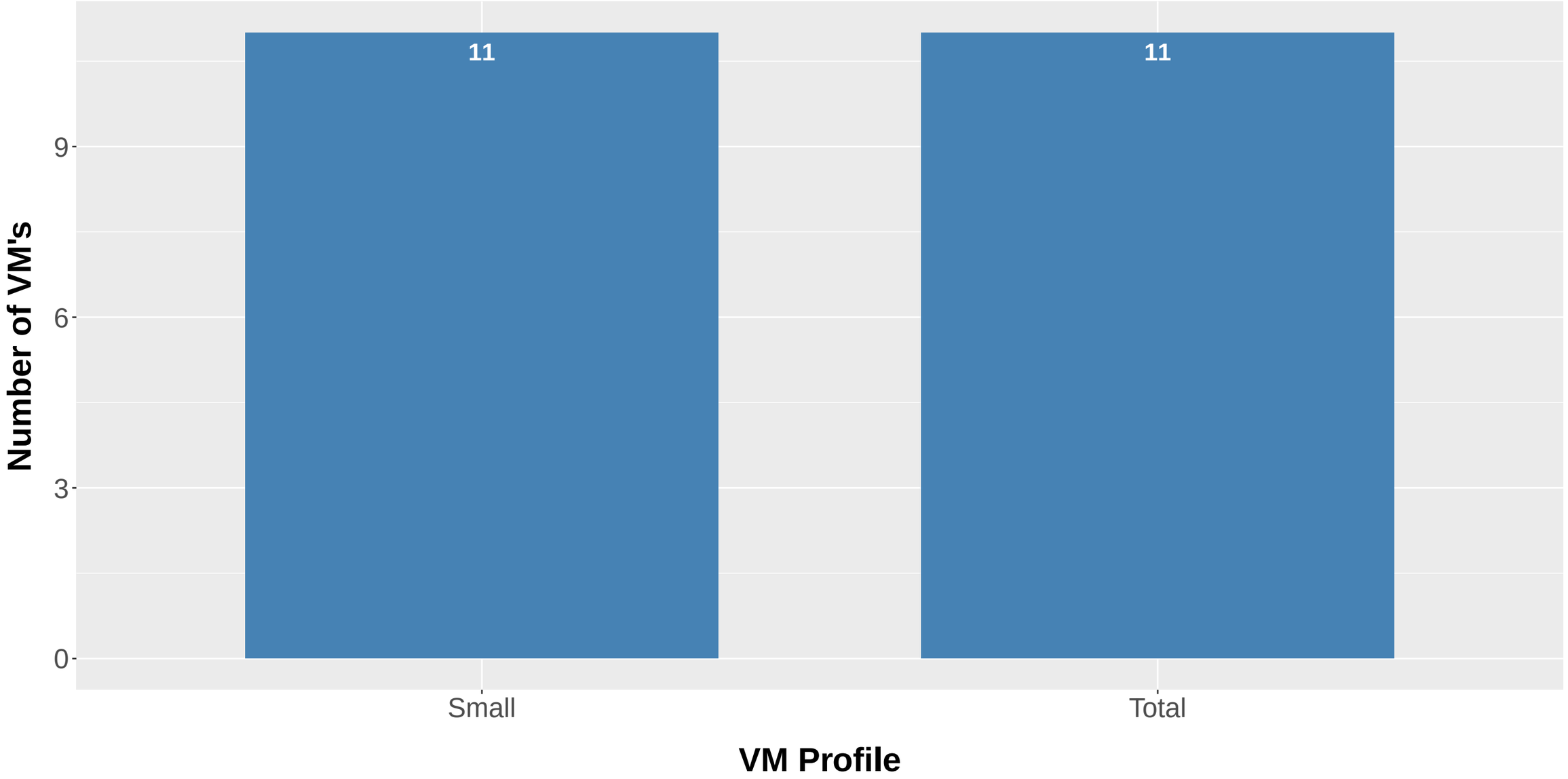
Number of VM's for each profile – SOT



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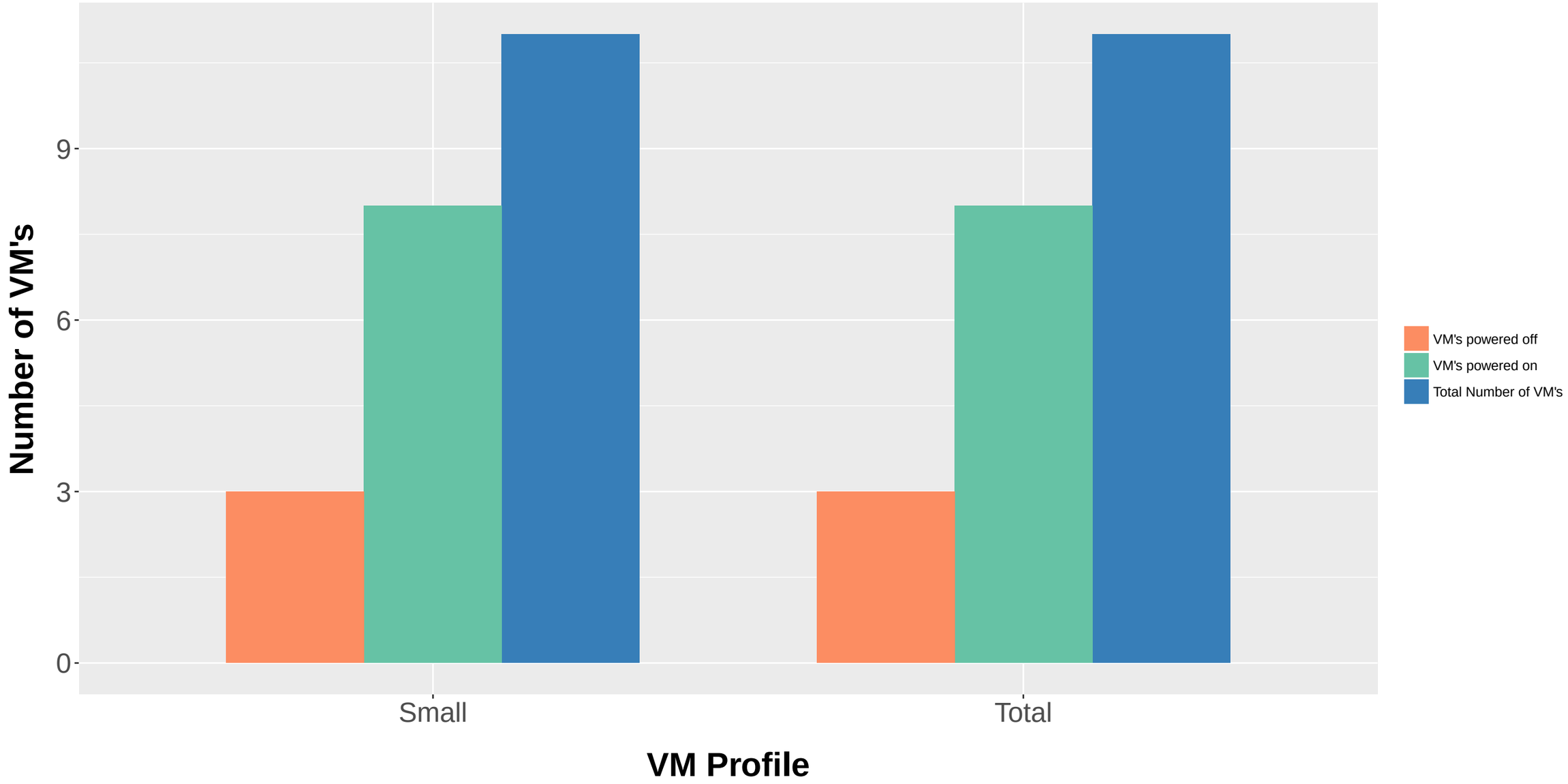
Overview of powered on / off VM's for each profile – SOT



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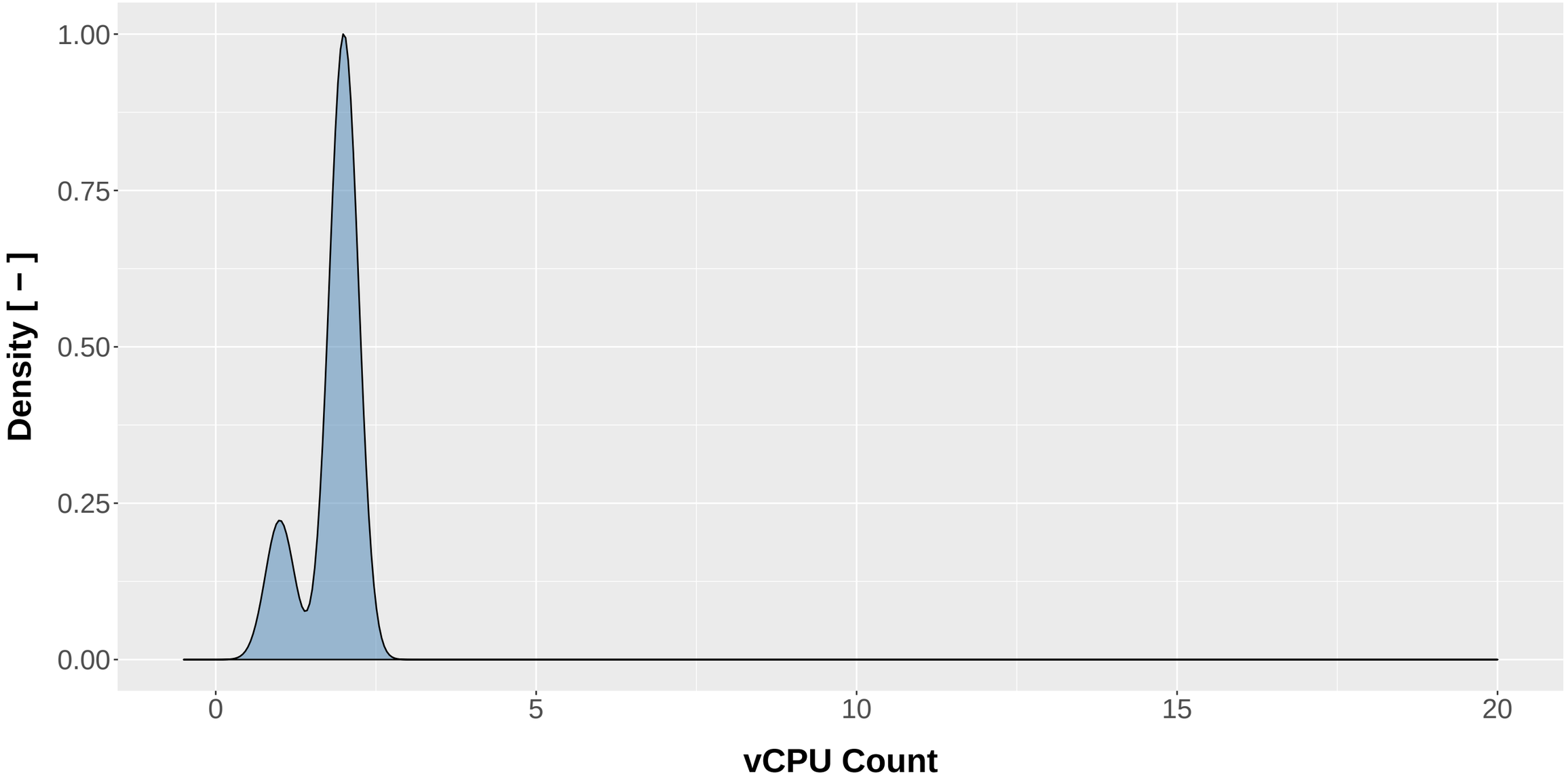
Distribution of vCPU for all VM's – SOT



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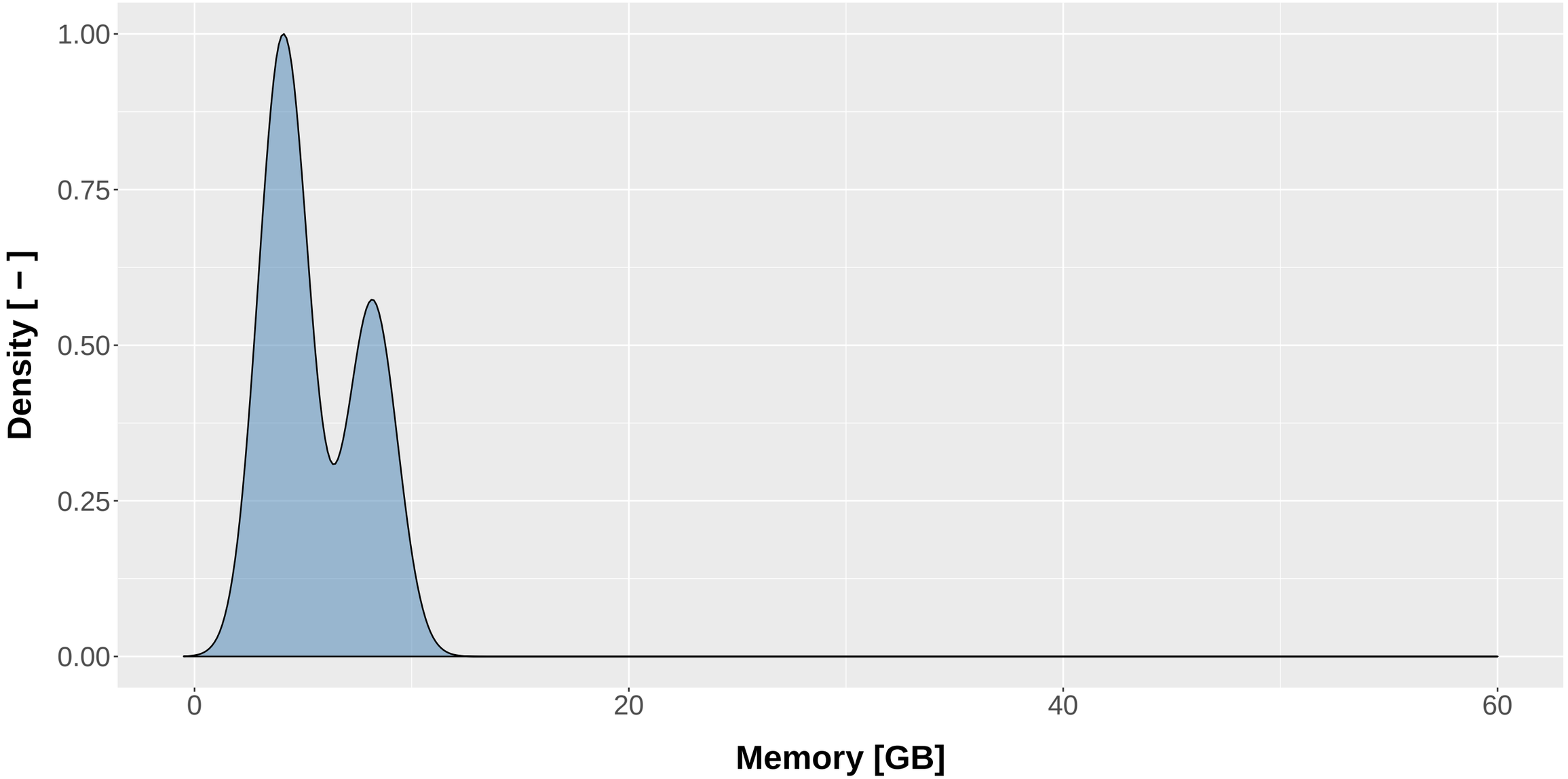
Distribution of Memory for all VM's – SOT



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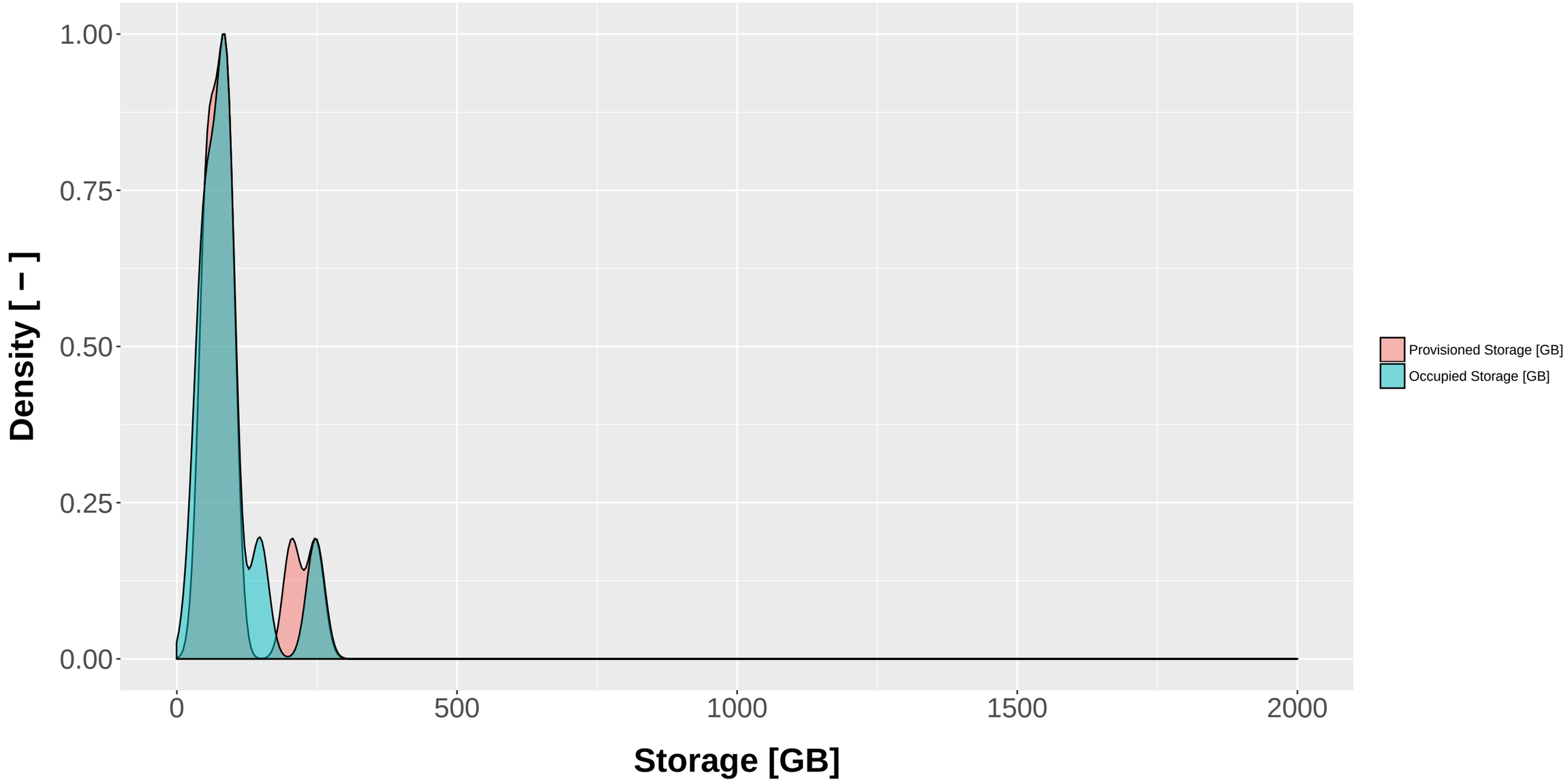
Distribution of occup. and provis. storage for all VM's – SOT



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Summary for Datacenter: STA

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Summary of collected components for: STA

Description	# VM's	# VM's on	# VM's off	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]	Thin / Thick Ratio [%]
Small	18	14	4	77.8	32	94.2	1541.4	2185.5	70.5
Total	18	14	4	77.8	32	94.2	1541.4	2185.5	70.5

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Average values of collected components for: STA

Description	# VM's	Concurrent Ratio [%]	# vCPU's	Memory [GB]	Occupied Storage [GB]	Provisioned Storage [GB]
Small	18	77.8	1.8	5.2	85.6	121.4
Total	18	77.8	1.8	5.2	85.6	121.4

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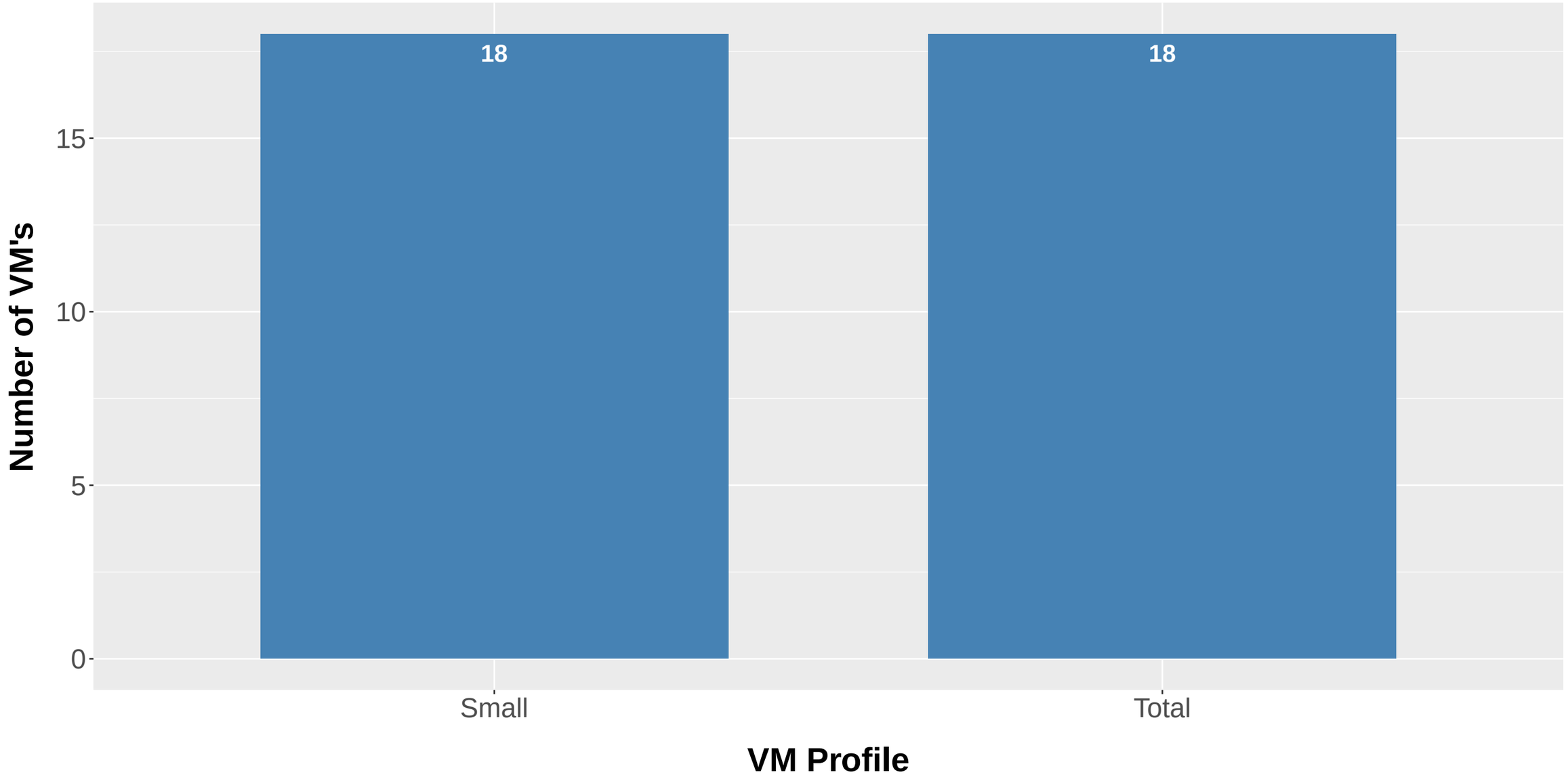
Number of VM's for each profile – STA



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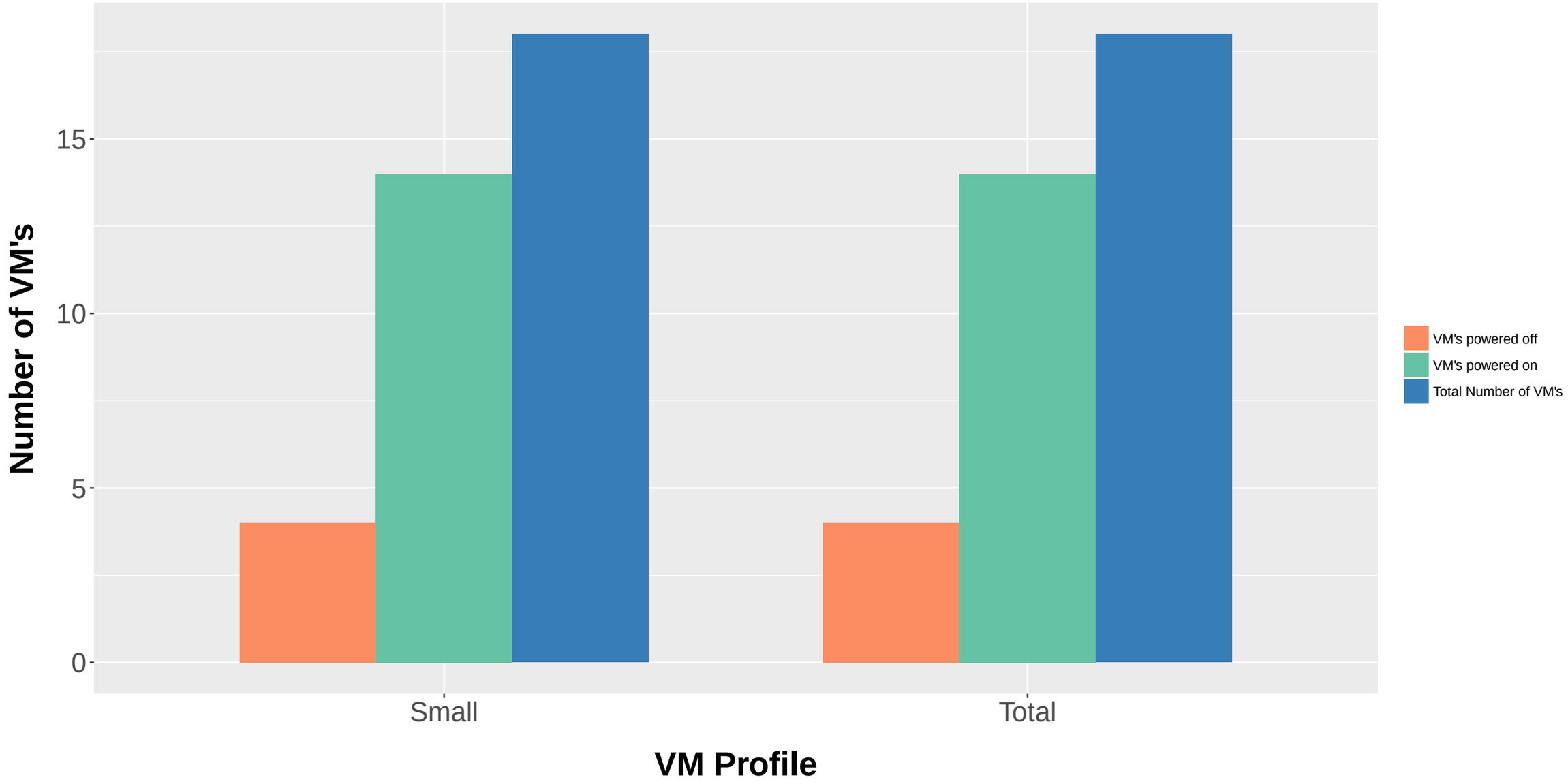
Overview of powered on / off VM's for each profile – STA



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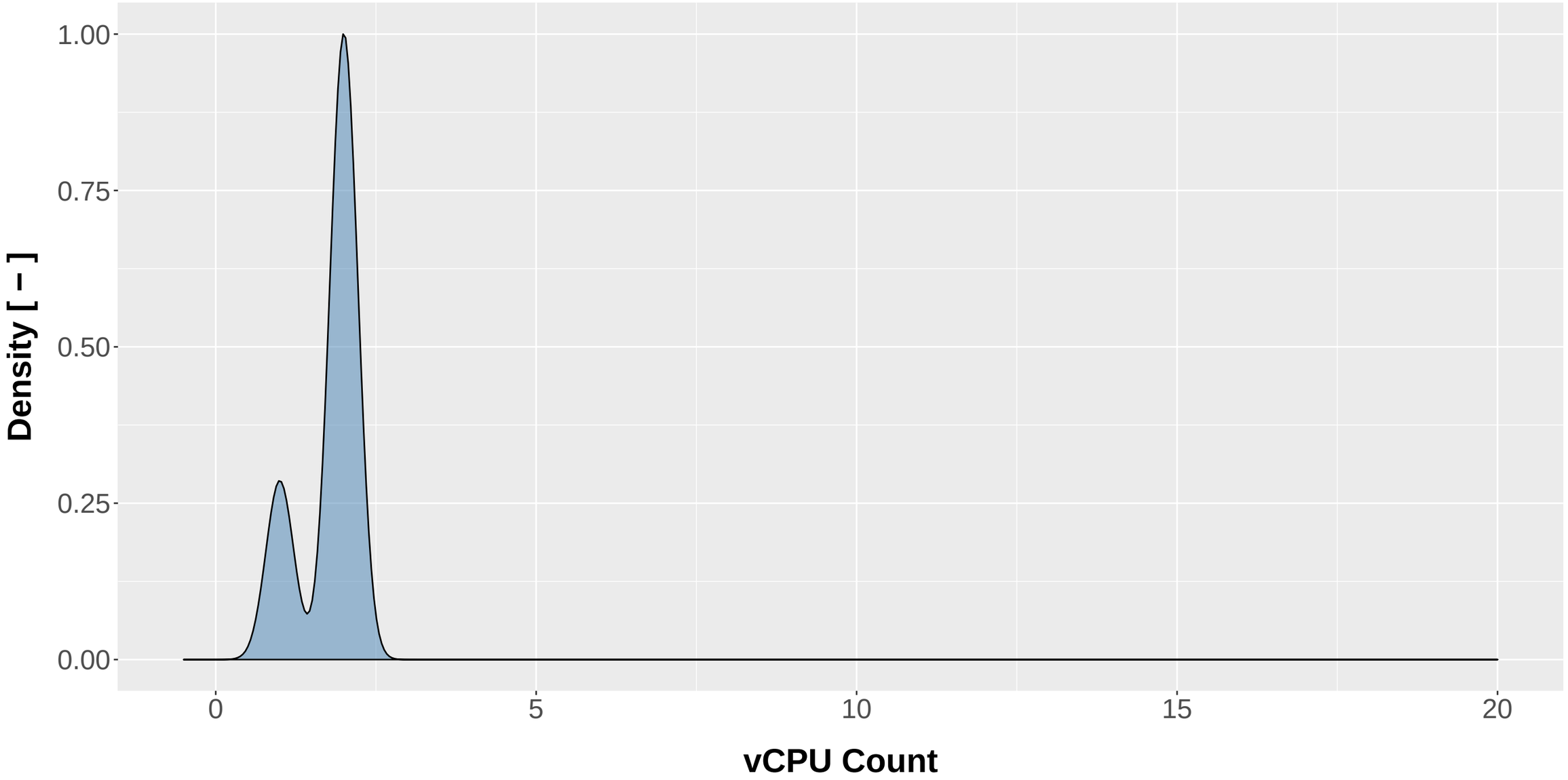
Distribution of vCPU for all VM's − STA



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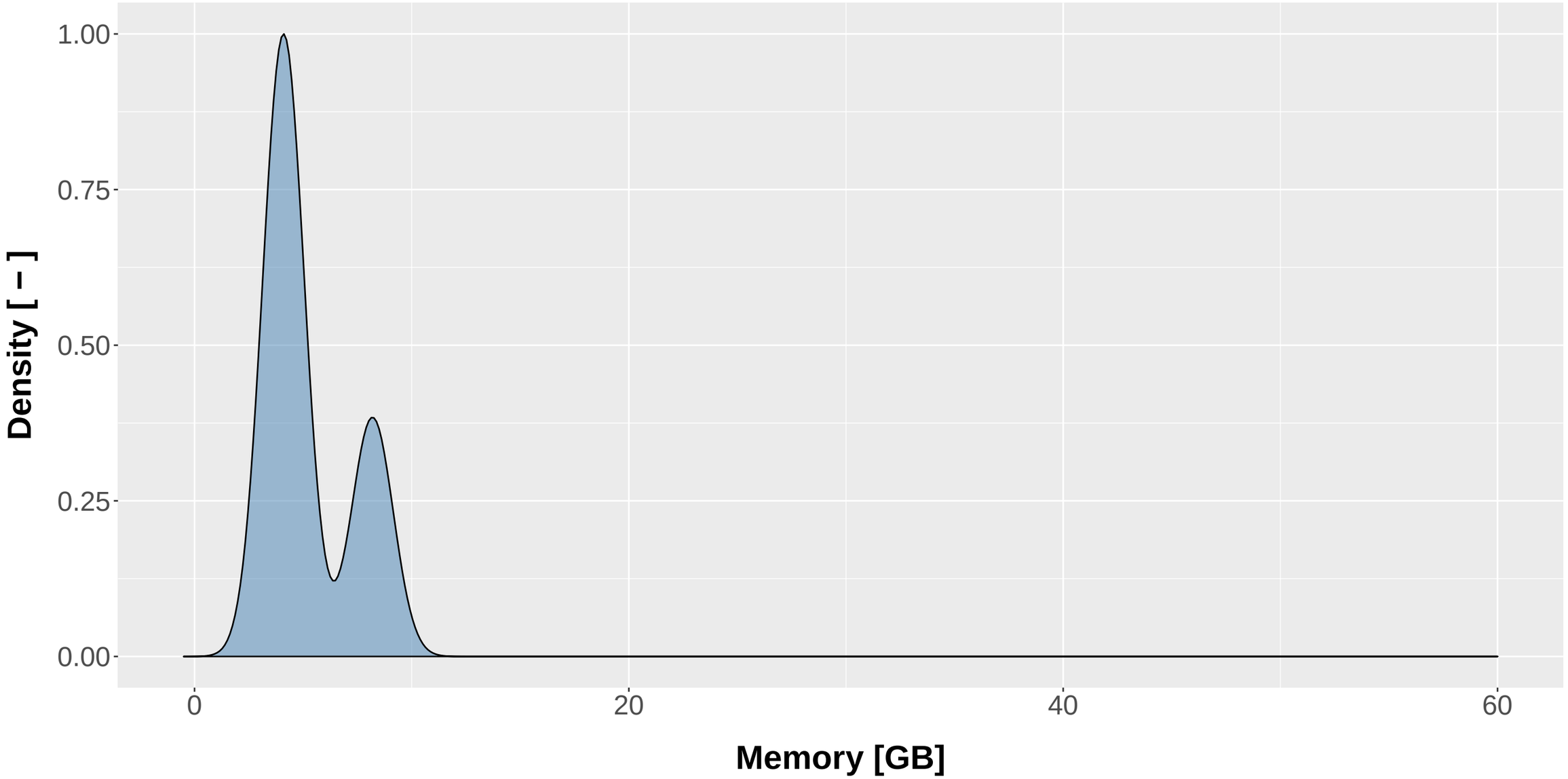
Distribution of Memory for all VM's − STA



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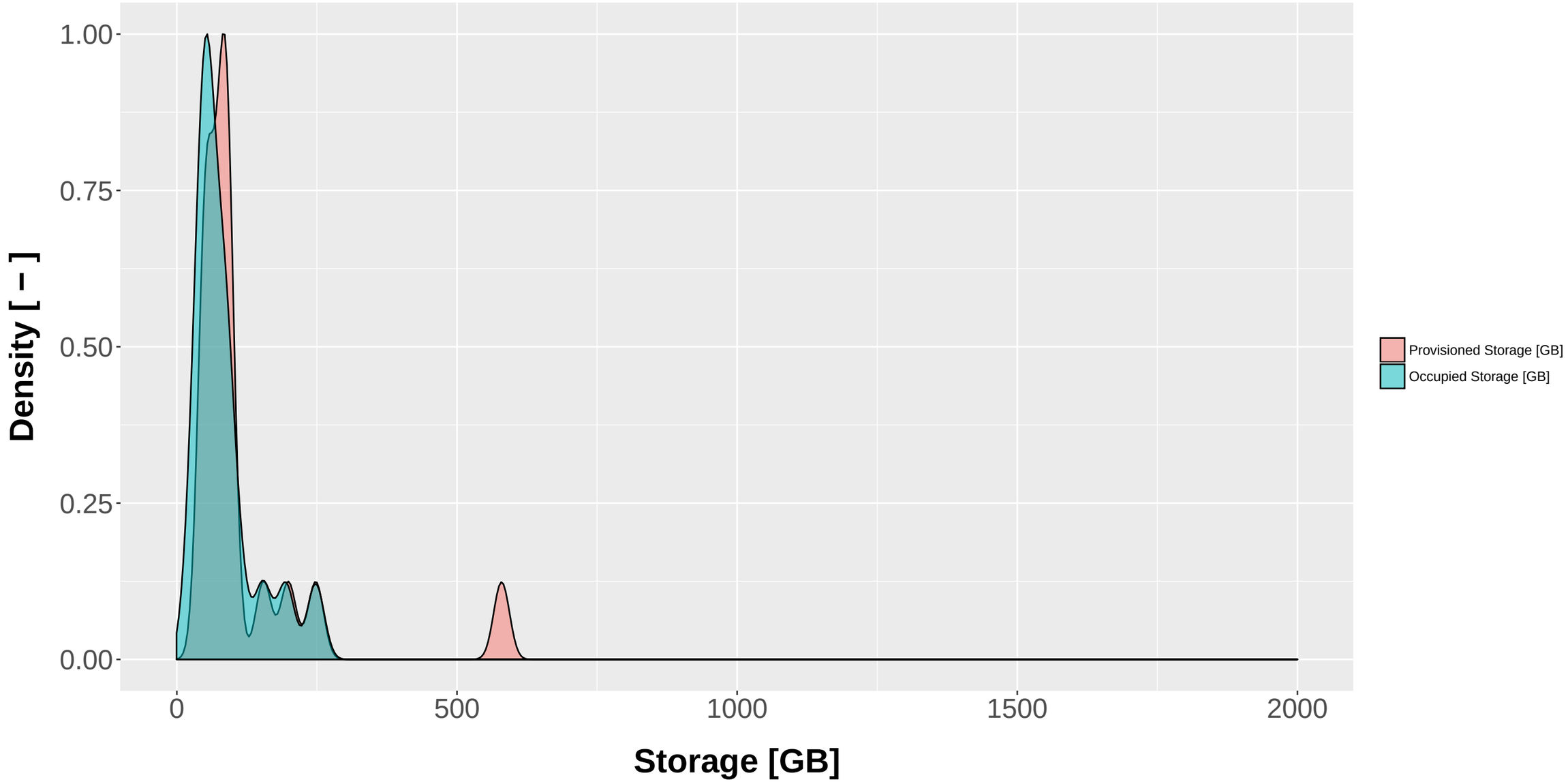
Distribution of occup. and provis. storage for all VM's − STA



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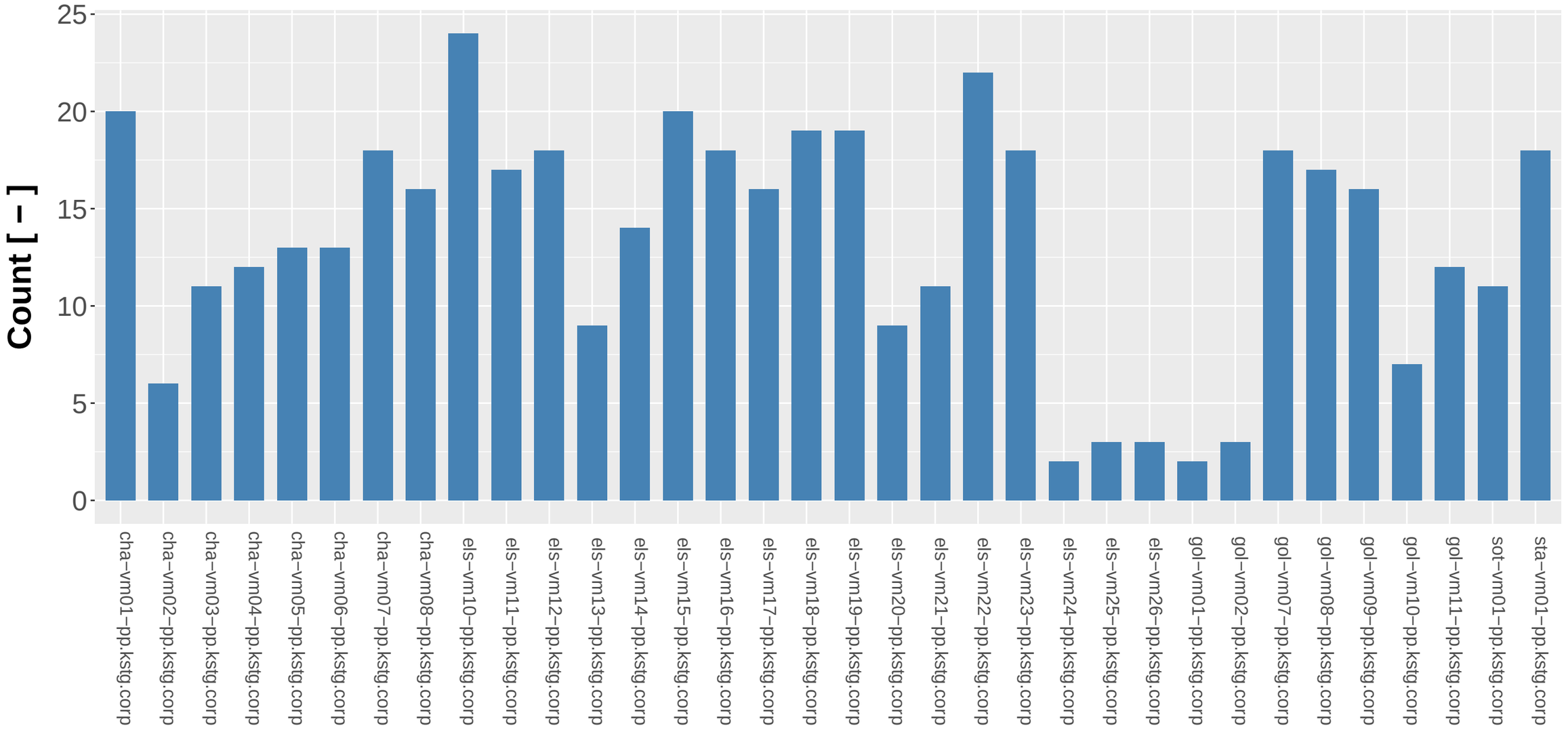
Host and OS overview

Number of VM's for each Host



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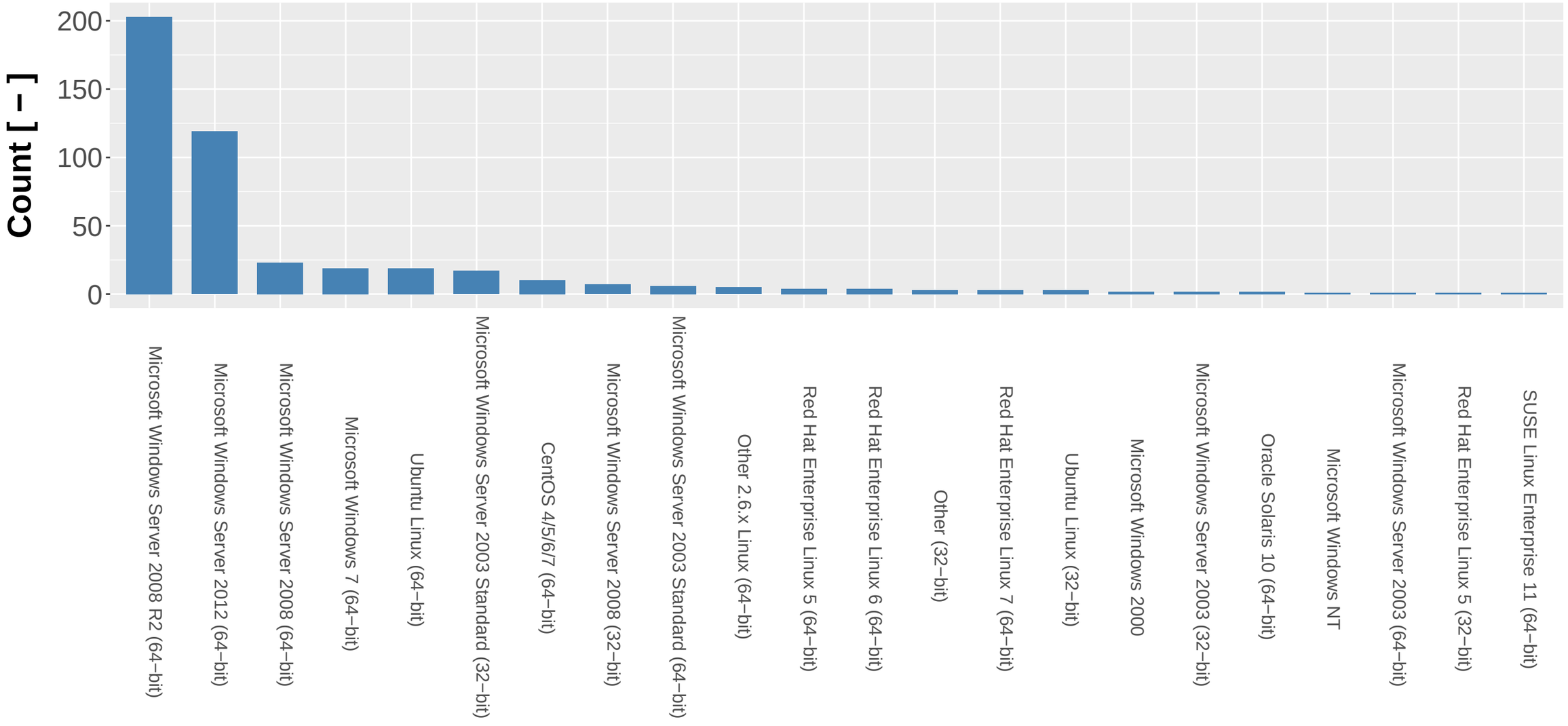
Overview of Operating Systems



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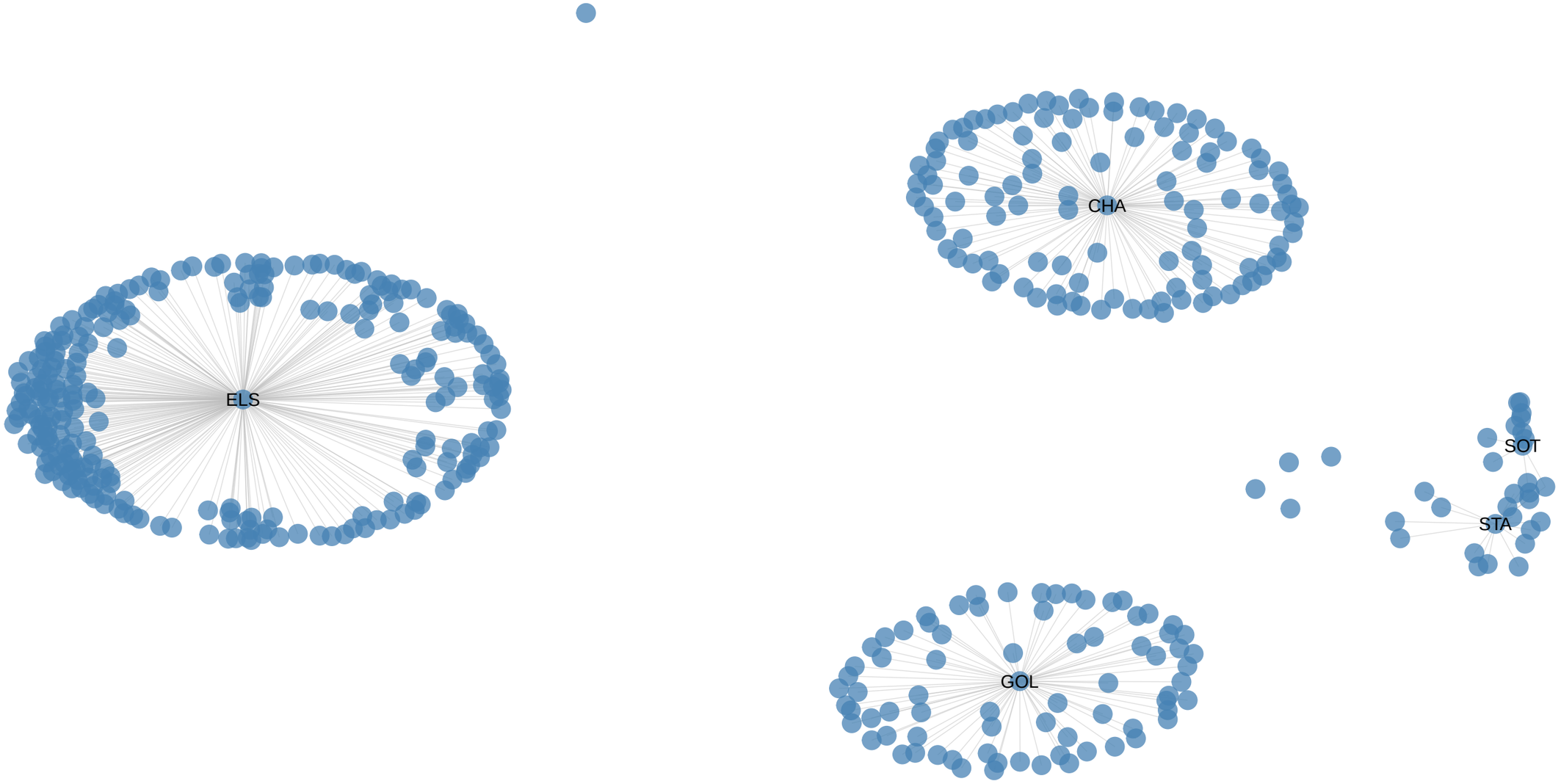
Cluster diagrams

Cluster: VM's per Datacenter



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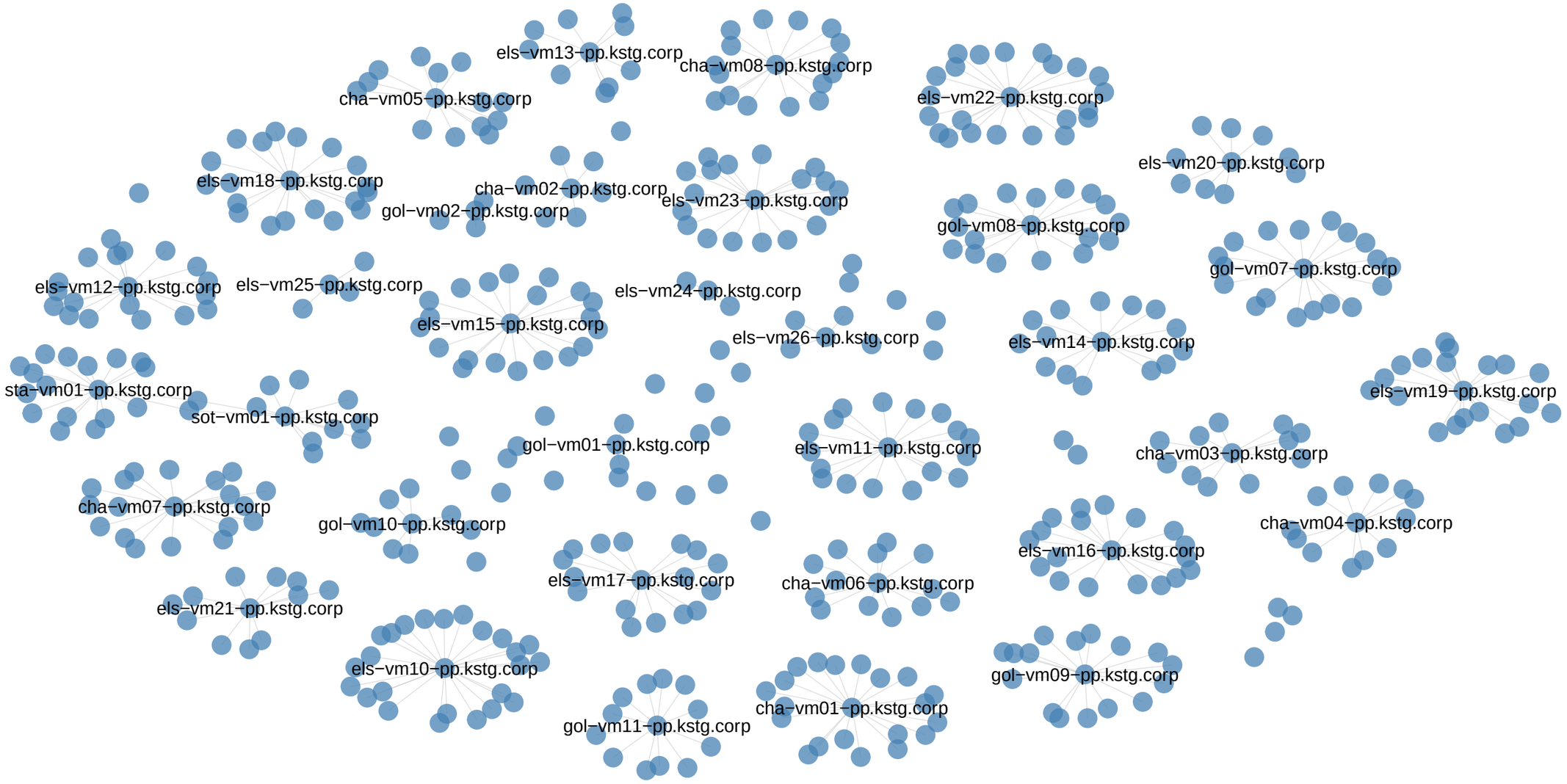
Cluster: VM's per Host



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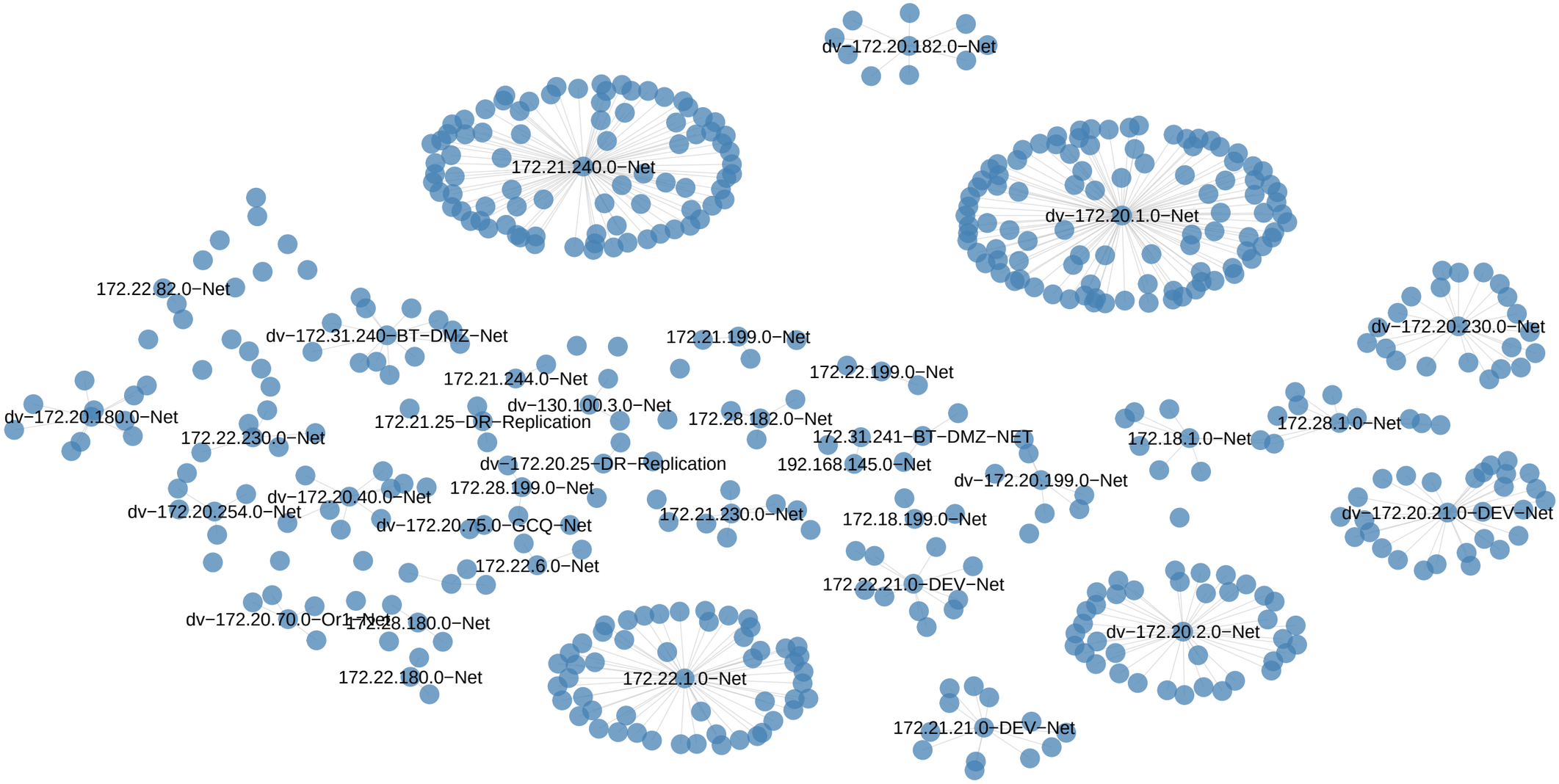
Cluster: VM's per Network



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