



SPINNIKER  
CORP

# CAPACITY REPORT



**Wigmore  
Finance**

AUGUST 2022



# OUR PROFILE

---

Spinnaker Corp work fiercely to make customers, employees, shareholders and communities proud. We cannot promise specific outcomes or risk-free results but are committed to our principles and to giving honest assessments of your business and prospects.

We are proud to be Microsoft Gold partners with 12 Microsoft accreditations to date and we are also accredited partners with several other leading industry providers including Cisco Meraki. We hold highly regarded certifications including ISO 27001.

# THE OBJECTIVE

---

The Capacity Report provides reliable data from trusted sources and business tools on a scheduled basis. We align automated data gathering and processing with manual review to correctly produce a comprehensive report and facilitate reporting for our customers. The report is organized in two sections with a focus on data visualization over too much information. Datasources used in this report come from LogicMonitor and forecast data is based on a standard linear regression algorithm, with a three-month training period.

Acronyms used are:

- VM: Virtual Machine
- PM: Physical Machine

# Table of Contents

1.	Capacity Dashboard.....	4
2.	Executive Summary .....	5
A.	VMWARE Clusters .....	5
B.	VMWARE Host Devices.....	6
C.	VMWARE Virtual Machines .....	7
D.	Physical Servers .....	8
E.	Storage Devices .....	9
F.	Firewall Devices .....	11
G.	Switch devices .....	13
3.	Capacity Detail.....	15
H.	VMWARE VM CPU Usage .....	15
I.	NETAPP disk Volume Usage .....	16
J.	Physical Machine Disk Usage .....	17

# 1. Capacity Dashboard

Type	Technology	Device Count	Datapoint	Metric Count	Status
Compute VM Cluster	vSphere	17	CPU	17	
Compute VM Cluster	vSphere	17	Memory	17	
Compute VM Cluster	vSphere	17	Storage	17	
Compute VM	vSphere	192	CPU	192	Detail
Compute VM	vSphere	192	Disk	894	Detail
Compute VM	vSphere	192	Memory	192	
Compute PM	Server	146	CPU	130	
Compute PM	Server	146	Disk	250	Detail
Storage	HP 4QRA	2	CPU	8	
Storage	HP 4QRA	2	Disk	704	
Storage	NetApp	4	CPU	8	
Storage	NetApp	4	Disk Aggregate	16	
Storage	NetApp	4	Disk Volume	220	Detail
Network	Firewall	31	CPU	86	
Network	Firewall	31	Memory	10	
Network	Firewall	31	Network Inbound	171	
Network	Firewall	31	Network Outbound	171	
Network	Switch	74	CPU	70	
Network	Switch	74	Memory	22	
Network	Switch	74	Network Inbound	4237	
Network	Switch	74	Network Outbound	4237	

## 2. Executive Summary

### A. VMWare Clusters

#### Top 5 CPU Usage

Cluster Name	vCentre Device Name	Avg (%)	Min (%)	Max (%)
Production	SRV002489641 HP8PIVQWCASZ04	22.75	17.33	32.63
DR-PROD	SRV003365323 SRYCCMFC02	17.48	11.94	46.91
PROD-AAP	SRV003322144 SGT4RSXFW01	13.58	8.58	30.05
MSP NonProduction	SRV003223894 WGXDMP01	11.91	9.74	17.41
RTU	SRV002489641 HP8PIVQWCASZ04	11.09	8.39	18.47

#### Top 5 Memory Usage

Cluster Name	vCentre Device Name	Avg (%)	Min (%)	Max (%)
Production	SRV002489641 HP8PIVQWCASZ04	58.70	50.59	61.57
TEST	SRV002489641 HP8PIVQWCASZ04	58.08	53.23	59.85
MSP NonProduction	SRV003223894 WGXDMP01	54.82	54.02	55.50
PROD-AAP	SRV003322144 SGT4RSXFW01	42.92	33.05	44.83
DR-PROD	SRV003365323 SRYCCMFC02	42.87	38.50	44.24

#### Top 5 Storage Usage

Cluster Name	vCentre Device Name	Avg (%)	Min (%)	Max (%)
Production	SRV002489641 HP8PIVQWCASZ04	58.27	57.75	58.58
PROD-AAP	SRV003322144 SGT4RSXFW01	55.66	40.99	59.26
MSP NonProduction	SRV003223894 WGXDMP01	55.43	55.38	55.53
TEST	SRV002489641 HP8PIVQWCASZ04	53.78	53.19	54.15
Production DR	SVM000310200	49.98	49.98	50.00

## B. VMWare Host Devices

### Top 5 CPU Usage

Device Name	# Cores	Avg (%)	Min (%)	Max (%)
VMR013500653	4	19.21	13.34	47.45
VMR013500652	4	17.95	12.07	45.73
VMR013500650	4	13.70	8.79	27.47
VMR013500356	4	13.57	11.70	19.34
VMR013500364	4	11.63	8.53	16.45

### Top 5 DataStore Usage

Device Name	Datastore	Avg (%)	Min (%)	Max (%)
VMR013500651	vc2dwd-vmvc-axs-prod-ds13	83.26	25.05	88.62
VMR013500649	vc2dwd-vmvc-axs-prod-ds04b	82.91	82.55	87.19
VMR013500650	vc2dwd-vmvc-axs-prod-ds04b	82.55	82.55	82.55
VMR013500651	vc2dwd-vmvc-axs-prod-ds04b	82.55	82.55	82.55
VMR013500649	vc2dwd-vmvc-axs-prod-ds05	81.77	81.42	85.98

## C. VMWare Virtual Machines

### Top 5 CPU Usage

VM Name	VM Host Name	# Cores	Avg (%)	Min (%)	Max (%)
SY6PYCDDSWMB02	VMR013500366 JY32DFVMCCDMZ02	16	83.62	66.41	100.00
HY9CIVBAFWQRV01	VMR013500356 HC5PHYPMXSINT01	4	77.10	30.47	85.89
HY9CDVBAFWQRV01	VMR013500352	4	61.37	24.97	68.94
FL9PIDBNFWQRV01	VMR013500365	4	57.50	25.21	71.79
SL3PDVBAFWQRV01	VMR013500361	4	48.24	22.51	65.79

### Top 5 Disk Usage

VM Name	Disk	VM Host Name	Avg (%)	Min (%)	Max (%)
SL3PIVDWHSSIS01	F:\	VMR013500652	99.98	99.98	99.98
SL3PIVDWHSSIS02	F:\	VMR013500653	99.98	99.98	99.98
SL3PICDWHSSQL03	F:\	VMR013500654	99.98	99.98	99.98
HY9CIVVMVCVCS01	/storage	VMR013500356	99.97	99.97	99.97
FL9PIDBNFWQRV01	/archive	VMR013500365	99.97	99.97	99.97

### Top 5 Memory Usage

VM Name	VM Host Name	Avg (%)	Min (%)	Max (%)
SY6PYCDDSWMB02	VMR013500366 JY32DFVMCCDMZ02	60.63	56.00	68.70
HH3DIVPETRIAA01	VMR013500356	37.70	32.67	47.69
HH3TDVPETRIAA01	VMR013500352	36.35	31.99	50.29
HH3TIVPETRIAA01	VMR013500356	36.34	32.00	48.34
HH3UDVPETRIAA01	VMR013500352	36.33	32.00	50.62

## D. Physical Servers

### Top 5 CPU Usage

Device Name	CPU	Avg (%)	Min (%)	Max (%)
SVM000010671 CRD_4QRA_01	Overall	62.28	1.26	88.56
SVM000010570 EXT_9RFDG_03	Overall	50.03	14.02	86.06
SVM000019163 SRDD-OUTSL-MP99	Overall	15.62	1.82	28.50
SRV003010346 DTPP-EXCH-NBS02	Overall	14.74	5.14	49.72
SRV002310589 DSPP-EXCH-NBS01	Overall	13.35	4.03	25.17

### Top 5 Disk Usage

Device Name	Disk	Avg (%)	Min (%)	Max (%)
SVM000340788 SRDP-OUTL-MSS02	D:\	98.42	96.92	100.00
SVM000010664 SRDD-OUTSL-MSQ01	E:\	95.87	92.08	98.91
SVM000011364 CRD_4QRA_01	D:\	92.81	88.85	94.69
SVM000010428 CRD_3QDDA_02	C:\	92.70	89.49	97.87
SVM000010646 SRDD-OUTSL-MSS01	F:\	92.09	90.90	94.17

### Top 5 Memory Usage

Device Name	Module	Avg (%)	Min (%)	Max (%)
SVM000010740 CNH_7QDDA_02	Overall	92.12	7.00	96.35
SVM000010806 EXT_7RFDG_06	Overall	91.01	79.24	96.23
SVM000010777 CRD_4QRA_02	Overall	90.42	63.02	93.87
SVM000012436 CRD_6GDE_02	Overall	89.56	55.80	96.78
SVM000010734 EXT_3RFFG_01	Overall	89.35	66.43	96.94



## E. Storage Devices

### HP 4QRA - Top 5 CPU Usage

Device Name	CPU	Avg (%)	Min (%)	Max (%)
STO000014163 VMR_6WPP_04	Node 1	32.63	21.60	43.23
STO000014163 VMR_6WPP_04	Node 2	26.58	17.20	34.31
STO000014163 VMR_6WPP_04	Node 3	25.60	20.03	33.34
STO000008668 CGD_4QRA_01	Node 0	23.72	12.53	32.96
STO000014163 SBA_9CDD_02	Node 2	18.17	12.84	24.74

### HP 4QRA - Top 5 Disk Usage

Device Name	Disk	Avg (%)	Min (%)	Max (%)
STO000014163 VMR_6WPP_04	Disk 19	95.85	93.73	100.51
STO000014163 VMR_6WPP_04	Disk 4	95.82	93.12	101.02
STO000014163 VMR_6WPP_04	Disk 58	95.82	93.85	101.51
STO000014163 VMR_6WPP_04	Disk 122	95.80	92.02	101.19
STO000014163 VMR_6WPP_04	Disk 141	95.79	93.61	101.06

### NetApp - Top 5 CPU Usage

Device Name	CPU	Avg (%)	Min (%)	Max (%)
STO000003401 HC3Y-INTMNG-ST04	HY9C-INTMNG-ST1A:kernel:HY9C-INTMNG-ST1A	8.81	2.50	21.74
STO000003406 HP9H-INTMNG-ST01	SL3P-INTMNG-ST1A:kernel:SL3P-INTMNG-ST1A	8.66	3.95	29.19
STO000003413 HP3Y-INTMNG-ST02	HY9C-INTMNG-ST4A:kernel:HY9C-INTMNG-ST4A	8.15	2.01	36.26
STO000003418 SR3P-INTMNG-ST02	SL3P-INTMNG-ST4A:kernel:SL3P-INTMNG-ST4A	8.07	2.34	43.73
STO000003413 HP3Y-INTMNG-ST02	HY9C-INTMNG-ST2A:kernel:HY9C-INTMNG-ST2A	7.91	2.18	39.74

### NetApp - Top 5 Disk Aggregate Usage

Device Name	Aggregate	Avg (%)	Min (%)	Max (%)
STO000003401 HY9C-INTMNG-ST01	HY9CIVNAPPSVM01 / HY9C_INTMNG_st1b_root	84.76	84.76	84.76
STO000003401 HY9C-INTMNG-ST01	HY9CIVNAPPSVM01 / HY9C_INTMNG_st1a_root	84.76	84.76	84.76
STO000003413 HY9C-INTMNG-ST02	HY9CIVNAPPSVM04 / HY9C_INTMNG_st2a_root	76.56	76.56	76.57
STO000003413 HY9C-INTMNG-ST02	HY9CIVNAPPSVM04 / HY9C_INTMNG_st4a_root	76.56	76.56	76.57
STO000003418 SR3P-INTMNG-ST04	SL3PIVNAPPSVM05 / sl3p_INTMNG_st2a_root	76.56	76.56	76.57

### NetApp - Top 5 Disk Volume Usage

Device Name	Volume	Avg (%)	Min (%)	Max (%)
STO000003418 SL3P-INTMNG-ST02	SL3PIVNAPPSVM06/sf2yuy_vraw_cfd_pqw_nfd_sql02	92.74	77.42	99.11
STO000003418 SL3P-INTMNG-ST02	SL3PIVNAPPSVM06/sf2yuy_vraw_cfd_pqw_nfd_sql01	83.63	70.00	100.00
STO000003413 HY9C-INTMNG-ST02	HY9CIVNAPPSVM05/HY9Cip_hbre_grt_nfs_int02	55.03	15.00	65.00
STO000003418 SL3P-INTMNG-ST02	SL3PIVNAPPSVM06/sf2yuy_vraw_grt_nfs_int02_sm	54.88	15.00	65.00
STO000003413 HY9C-INTMNG-ST02	HY9CIVNAPPSVM05/HY9Cip_hbre_grt_nfs_int03	53.84	40.00	83.00

## F. Firewall Devices

### Top 5 CPU Usage

Device Name	CPU	Avg (%)	Min (%)	Max (%)
FWB020010148 ST-PROD-SECONDARY	0	12.24	9.18	22.94
FWB020010148 ST-PROD-SECONDARY	Processor 0/0	12.11	8.95	22.93
FWB020010135 STE-F5510-1-3P	Chassis	12.01	8.16	21.83
FWB020010197 STU-F5525-1-RA-1	0	11.43	0.15	44.73
FWB020010197 STU-F5525-1-RA-1	Processor 0/0	11.29	0.03	44.67

### Top 5 Memory Usage

Device Name	Module	Avg (%)	Min (%)	Max (%)
FWB020010600 SL3P-3PYDRE-FW01	Overall	39.83	39.00	41.02
FWB020010598 HY9C-3PYPRD-FW01	Overall	37.85	36.77	39.01
FWB020010608 SL3P-INTDRE-FW01	Overall	33.71	32.00	35.00
FWB020010606 HY9C-INTPRD-FW01	Overall	33.43	31.00	35.05
FWB020010610 SL3P-INTPRP-FW01	Overall	28.13	28.00	29.00

### Top 5 Inbound Utilization

Device Name	Interface	Avg (%)	Min (%)	Max (%)
FWB020010148 ST-PROD-SECONDARY	Security Adaptor 'INTERNAL' interface	8.44	2.06	35.37
FWB020010197 STU-F5525-1-RA-1	Security Adaptor 'INTERNAL' interface	2.96	0.00	351.02
FWB020010197 STU-F5525-1-RA-1	Security Adaptor 'GigabitEthernet0/7' interface	2.58	0.00	63.71
FWB020010148 ST-PROD-SECONDARY	Security Adaptor 'GigabitEthernet0/4' interface	1.61	0.82	3.88
FWB020010171 CGD-F5515-1-INT	Security Adaptor 'GigabitEthernet0/1' interface	1.14	0.54	2.97

## Top 5 Outbound Utilization

Device Name	Interface	Avg (%)	Min (%)	Max (%)
FWB020010148 ST-PROD-SECONDARY	Security Adaptor 'INTERNAL' interface	24.86	12.37	63.88
FWB020010197 STU-F5525-1-RA-1	Security Adaptor 'INTERNAL' interface	4.79	0.00	386.53
FWB020010171 CGD-F5515-1-INT	Security Adaptor 'INTERNAL' interface	1.15	0.55	2.95
FWB020010197 STU-F5525-1-RA-1	Security Adaptor 'GigabitEthernet0/7' interface	0.97	0.00	40.24
FWB020010144 STPA-FW3P-FW01	Security Adaptor 'INTERNAL' interface	0.88	0.00	4.56

## G. Switch Devices

### Top 5 CPU Usage

Device Name	CPU	Avg (%)	Min (%)	Max (%)
FWB020010781 man-1780Z-client3-1	1	41.03	40.58	41.88
FWB020010278 wilm-core-1	1	39.86	39.38	40.53
FWB020010222 man-1780Z-client3-1	1	39.39	38.95	40.02
FWB020010637 SL3P-INTMNG-SW01	1	39.33	39.01	39.98
FWB020010218 man-1780Z-client1-1	1	38.55	38.07	39.27

### Top 5 Memory Usage

Device Name	Module	Avg (%)	Min (%)	Max (%)
FWB020010623 SL3P-TESTDRE-SW02	Overall	49.00	49.00	49.00
FWB020010621 HY9C-TESTCUC-SW02	Overall	48.00	48.00	48.03
FWB020010622 SL3P-TESTDRE-SW01	Overall	48.00	48.00	48.01
FWB020010620 HY9C-TESTCUC-SW01	Overall	47.96	47.88	48.00
FWB020010618 SL3P-3PYDRE-SW01	Overall	47.65	47.51	48.00

### Top 5 Inbound Utilization

Device Name	Interface	Avg (%)	Min (%)	Max (%)
FWB020010152 STV_H6000_3_FF	HP VC 10Gb/24-Port Module 4.20	32.94	0.00	6192.51
FWB020010636 HY9C-INTMNG-SW01	GigabitEthernet1/0/33	21.51	0.02	98.66
FWB020010155 STV-SW2	FC port 0/2	18.03	0.00	67.93
FWB020010636 HY9C-INTMNG-SW01	GigabitEthernet1/0/38	15.12	0.00	94.34
FWB020010141 STE-S3993-1-MGMT-1	GigabitEthernet2/0/12	12.63	0.01	81.17

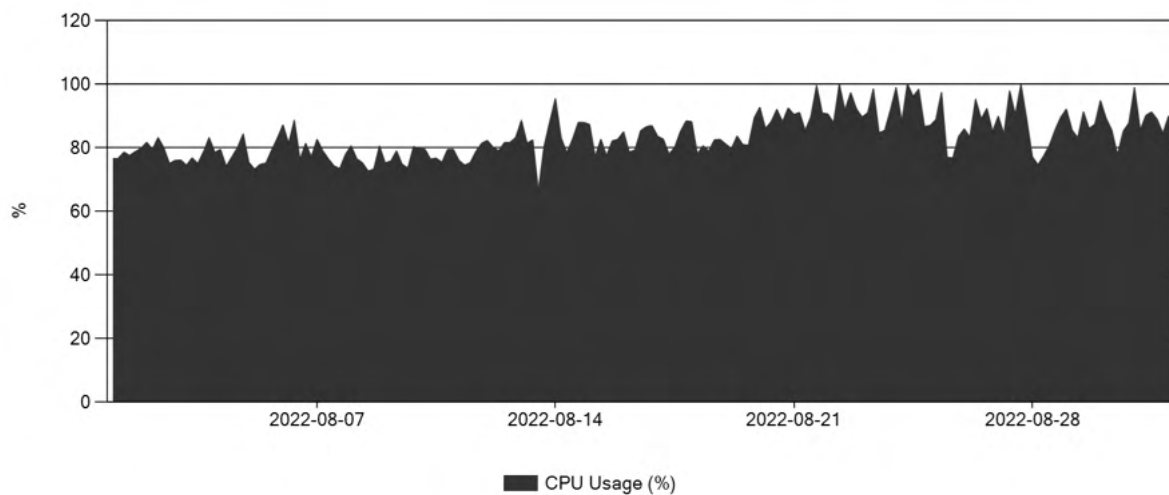
## Top 5 Outbound Utilization

Device Name	Interface	Avg (%)	Min (%)	Max (%)
FWB020010152 STV_H6000_3_FF	HP VC 10Gb/24-Port Module 4.20 d6	16.31	0.00	3061.90
FWB020010155 STV-SW2	FC port 0/3	14.25	0.00	49.20
FWB020010141 STE-S3993-1-MGMT-1	GigabitEthernet1/1/1	13.27	0.40	75.68
FWB020010154 STV-SW1	FC port 0/2	12.96	0.00	49.19
FWB020010507 STV_H6000_1_FF02	HP VC 10Gb/24-Port Module 4.20 X5	12.63	0.01	81.12

### 3. Capacity Detail

#### H. VMWare VM CPU Usage

VMR013500366 ST6DKJVMRCQQL06 - SY6PYCDDSWMB02

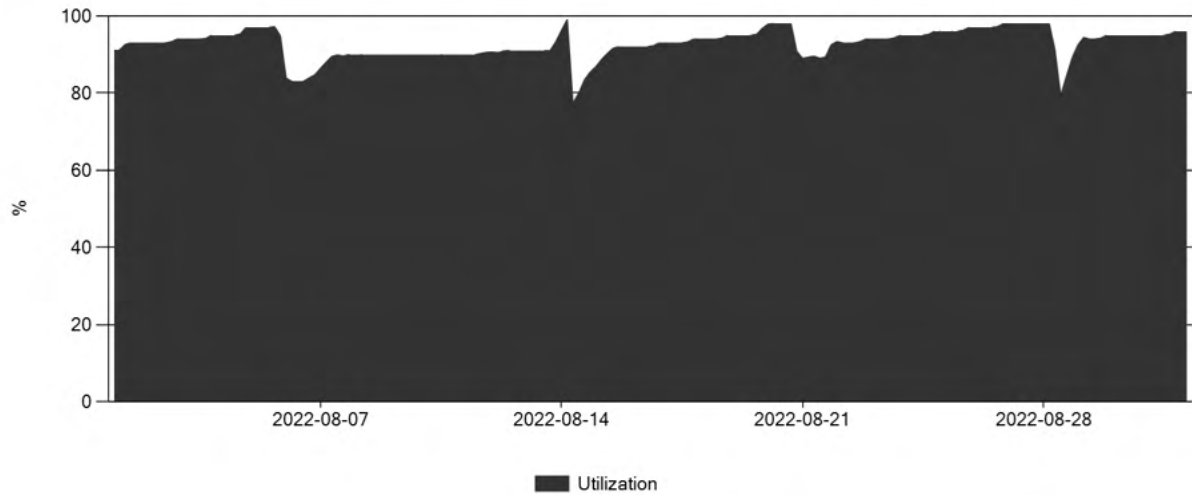


#### Forecast

Now	1 Month	3 Months	6 Months
90.98	100.00	100.00	100.00

## I. NetApp Disk Volume Usage

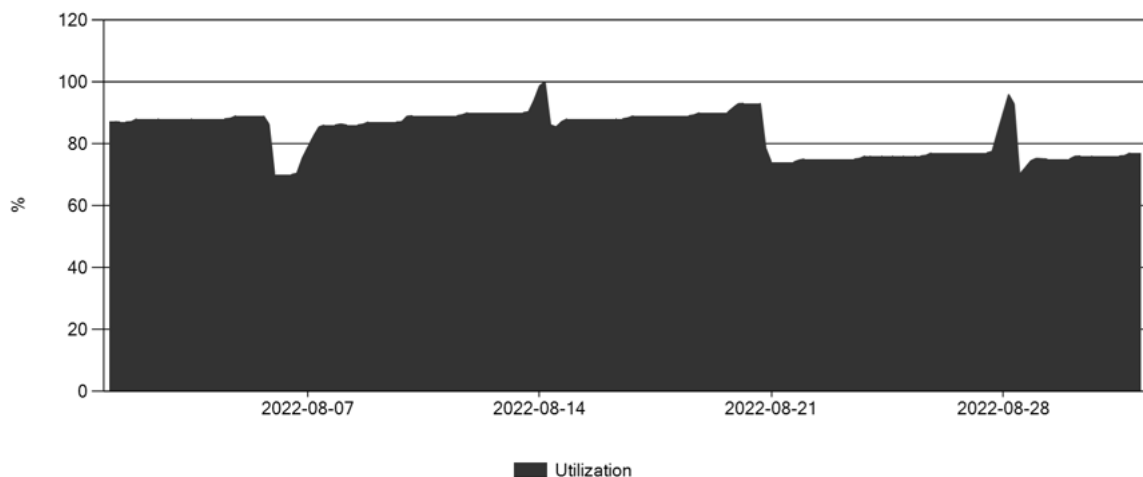
**STO000003418 SL3P-INTMNG-ST02 -  
SL3PIVNAPPSVM06/sf2yuy\_vraw\_cfd\_pqw\_nfd\_sql02**



### Forecast

Now	1 Month	3 Months	6 Months
95.06	99.48	100.00	100.00

**STO000003418 SL3P-INTMNG-ST02 -  
SL3PIVNAPPSVM06/sf2yuy\_vraw\_cfd\_pqw\_nfd\_sql01**



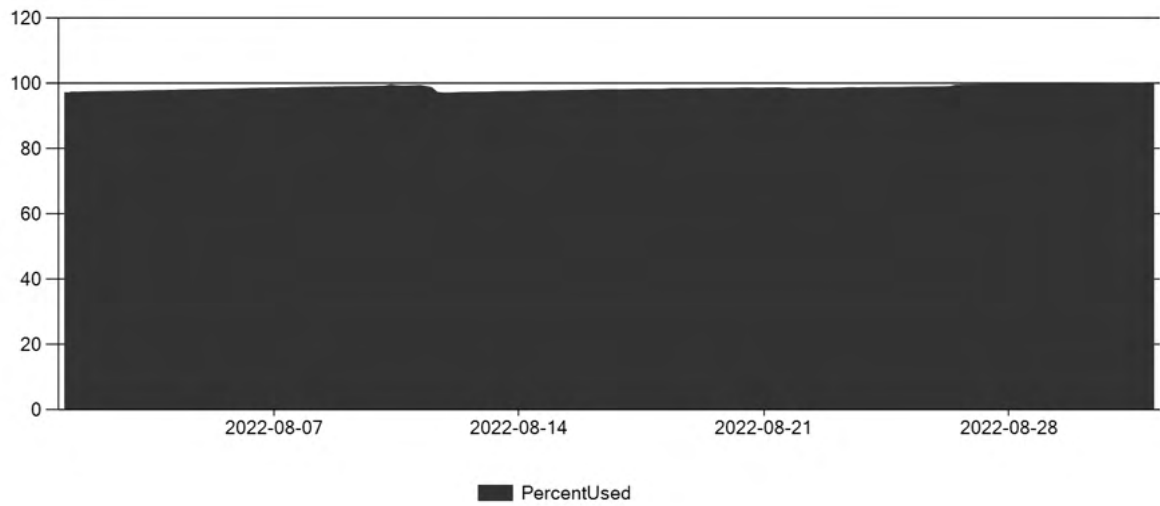
### Forecast

Now	1 Month	3 Months	6 Months
77.11	64.75	39.62	2.55



## J. Physical Machine Disk Usage

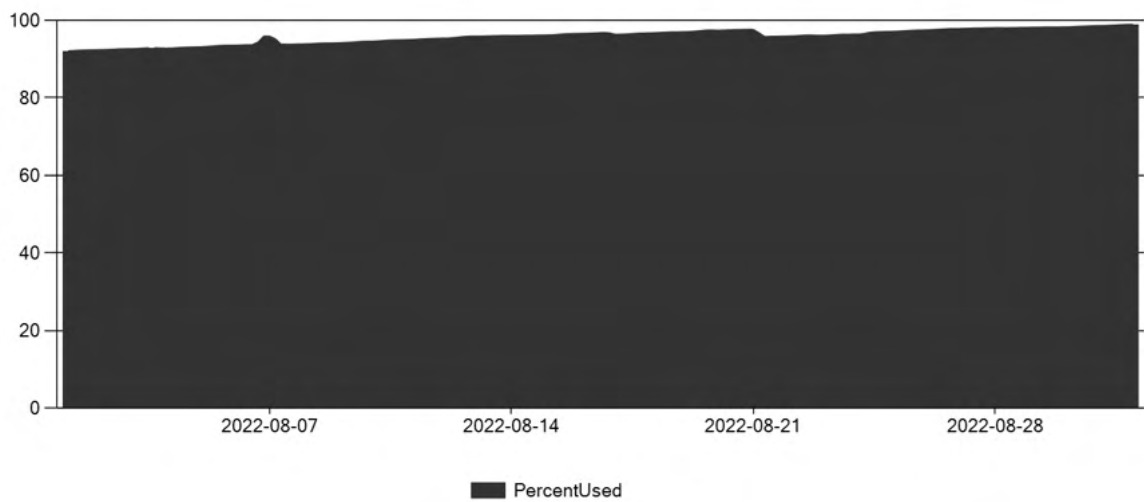
SVM000340788 SRDP-OUTL-MSS02UR5CRAN01 - C:\



### Forecast

Now	1 Month	3 Months	6 Months
99.40	100.00	100.00	100.00

SVM000010664 SRDD-OUTSL-MSQ01 Z2CRAD01 - C:\



### Forecast



---

Spinnaker Corp.  
145-186 Portsmouth Buildings,  
Nelson Road  
Southsea  
PO1 2HW

[www.spinnaker.org](http://www.spinnaker.org)