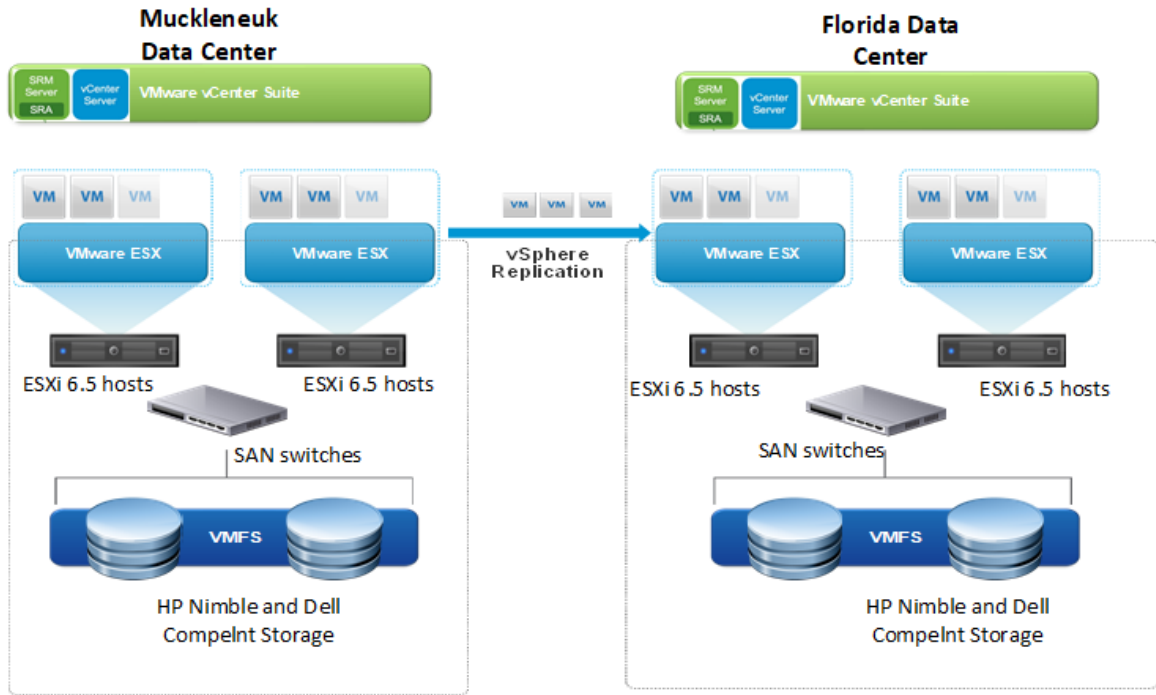
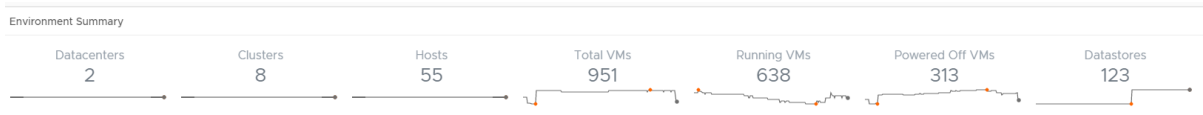


UNISA VMware Infrastructure



Data Center's details in summary



Name ↓	Clusters	Hosts	Datastores	Running VMs
Muckleneuk	4	38	92	537
Florida	4	17	31	101

Muckleneuk DataCenter

Muckleneuk Cluster details

Cluster Name	Host	Virtual Machine
AVAYA Cluster	6	34
DMZ	8	150
Production	22	440
Proxy	2	7

Muckleneuk CPU and Memory workload (month average)

Cluster Name	Average CPU utilization	Average memory utilization
Production	30,02%	72,13%
DMZ	17,24%	61,51%
Avaya	3,59%	24,16%
Proxy	3,02%	39,83%

Muckleneuk Hosts details

Host	Datacenter	Cluster	CPU Model	# CPU	Cores per CPU	# Cores	# Memory
163.200.20.115	Muckleneuk	Proxy	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	262 098
163.200.20.116	Muckleneuk	Proxy	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	262 098
vmkn-avaya01.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-avaya02.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-avaya03.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-avaya04.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-avaya05.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-avaya06.int.unisa.ac.za	Muckleneuk	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-2670 0 @ 2.60GHz	2	8	16	131 026
vmkn-vmw01.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw02.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw03.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw04.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw05.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw06.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw07.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw08.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw09.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw10.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw11.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw12.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw13.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw14.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw15.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw16.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw17.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw18.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw19.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw20.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw21.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw22.int.unisa.ac.za	Muckleneuk	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vmkn-vmw23.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw24.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw25.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw26.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw27.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw28.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw29.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634
vmkn-vmw30.int.unisa.ac.za	Muckleneuk	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	327 634

FLORIDA DataCenter

Florida Cluster details

Cluster Name	Host	Virtual Machine
AVAYA Cluster	3	19
DMZ	4	76
Dev Cluster	2	47
Production	8	178

Florida CPU and Memory workload (month average)

Cluster Name	Average CPU utilization	Average memory utilization
Production	6,74%	41,29%
DMZ	0,01%	3,14%
Avaya	3,87%	9,93%
Dev	3,41%	20,73%

Florida Hosts details

Host	Datacenter	Cluster	CPU Model	# CPU	Cores per	# Cores	# Memory (Mb)
vflo-vmw01.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw02.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw03.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw04.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw05.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw06.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw07.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw08.int.unisa.ac.za	Florida	Production	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw12.int.unisa.ac.za	Florida	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw13.int.unisa.ac.za	Florida	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw14.int.unisa.ac.za	Florida	AVAYA Cluster	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw15.int.unisa.ac.za	Florida	Dev Cluster	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw16.int.unisa.ac.za	Florida	Dev Cluster	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw17.int.unisa.ac.za	Florida	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	163 794
vflo-vmw18.int.unisa.ac.za	Florida	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	163 794
vflo-vmw19.int.unisa.ac.za	Florida	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098
vflo-vmw20.int.unisa.ac.za	Florida	DMZ	Intel(R) Xeon(R) CPU E5-4650 0 @ 2.70GHz	2	8	16	262 098

Hardware Configurations in summary

UNISA VMWare HDWare environment overview						
Location	Cluster Name	No. of Host Servers	Dell Server Type	Number of VM's(Pwr ON)	Storage (Connected to)	
Pretoria - Muckleneuk	Production	22	M820	360	1. DELL Compellent via Brocade FC Switches (494TB usable) 2. HP Nimble (HF60) SAN via HP FC switches (100TB usable) 3. StorSimple Hybrid Device via iSCSi	
	DMZ	8	M820	139		
	AVAYA	6	R720	32		Internal Server Storage
	Proxy	2	R720	7	Internal Server Storage	
	Roodepoort Florida	Production	8	M820	66	1. DELL Compellent via Brocade FC Switches (272TB) 2. HP Nimble(HF40) SAN via HP FC switches (100TB usable)
		DMZ	4	M820	2	
		DEV	2	M820	14	
AVAYA		3	M820	19		
NB: 1. There is One Virtual VCenter per site. 2. There is a 10GB backbone between the 2 sites						

