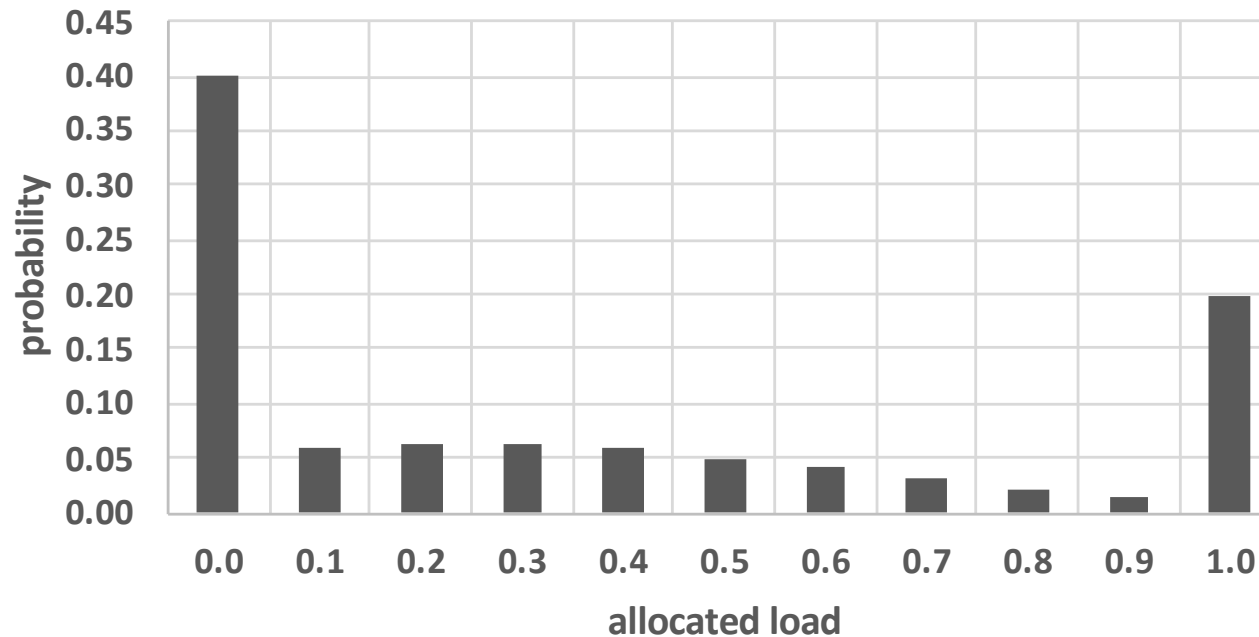


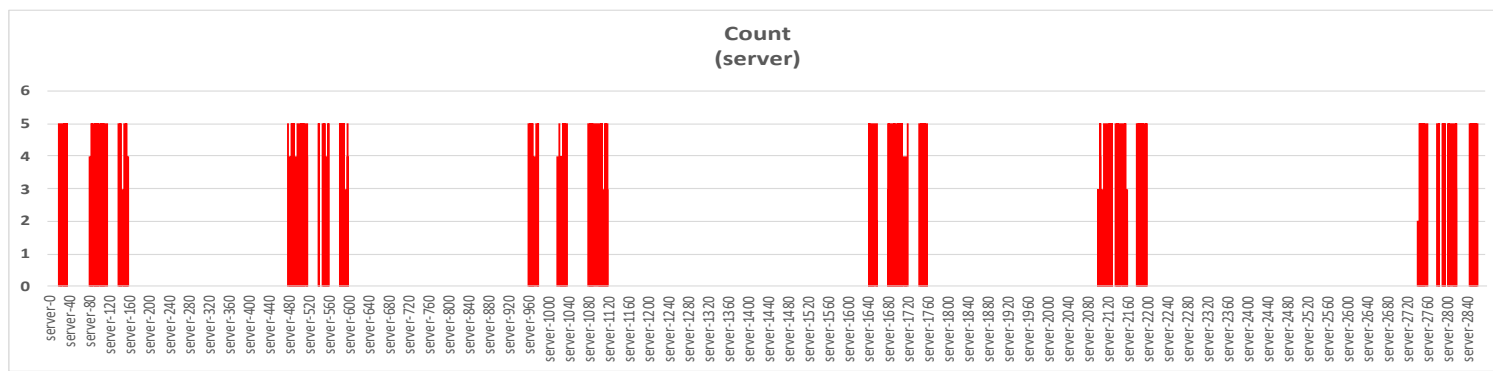
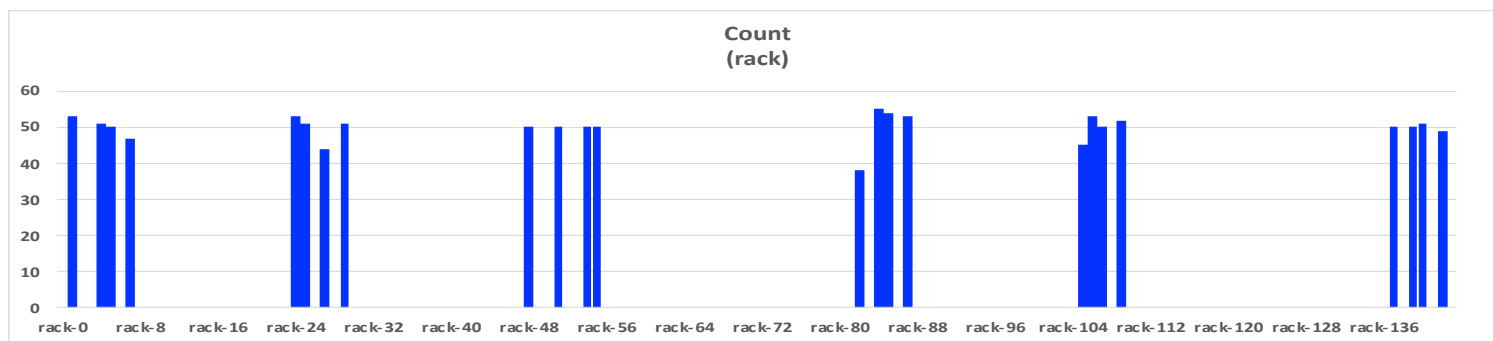
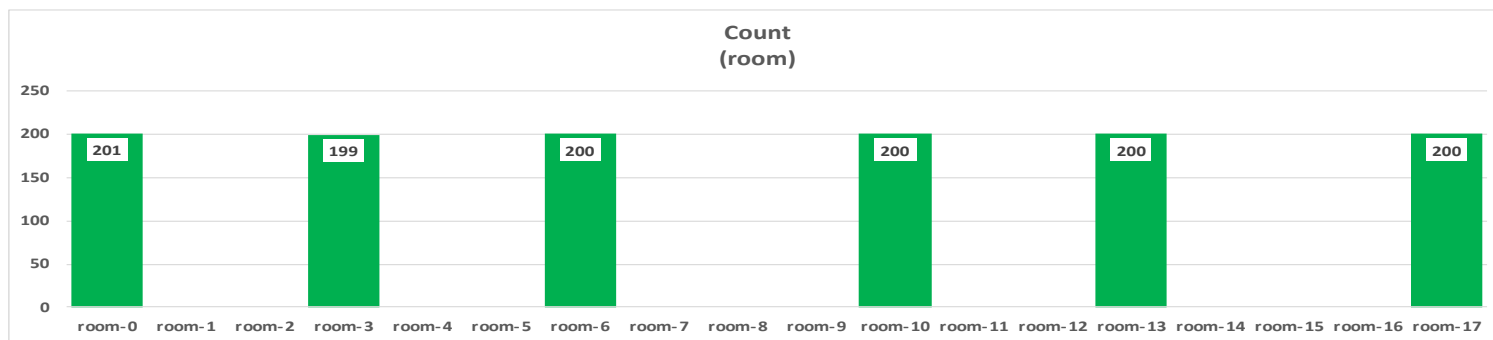
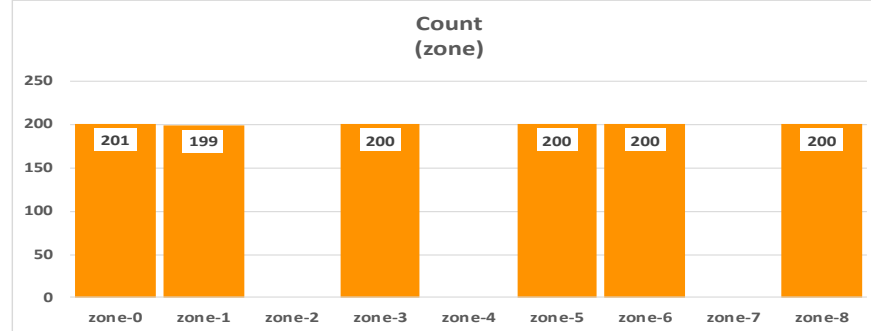
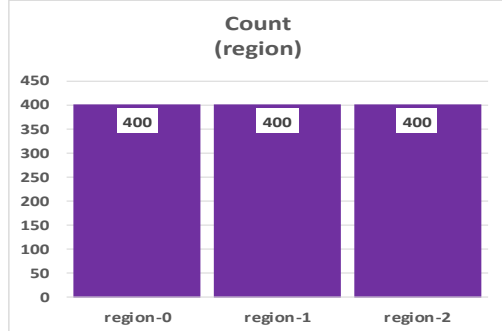
Configuration						
Count	Regions	3		Total	Regions	3
	Zones	3			Zones	9
	Rooms	2			Rooms	18
	Racks	8			Racks	144
	Servers	20			Servers	2,880
Group	numInstances	1,200				
		level	affinity	hard/soft	partitions	range
Constraints	Regions	4	Spread	Soft	2	[180,220]
	Zones	3	Spread	Soft		
	Rooms	2	Pack	Soft	4	[2,5]
	Racks	1	Spread	Soft		
	Servers	0	Pack	Soft		
		vCPU	Mem			
Resources	ServerCapacity	160	1,280			
	InstanceDemand	32	256			
Total	Capacity	460,800	3,686,400			
	GroupDemand	38,400	307,200			
	ratio	8.3%	8.3%			

Background allocated load

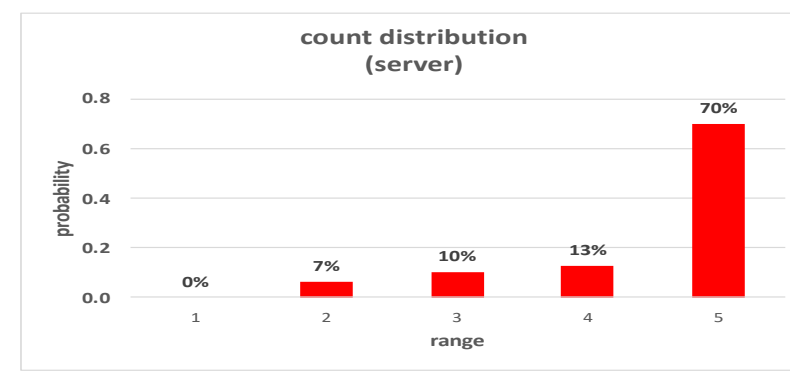
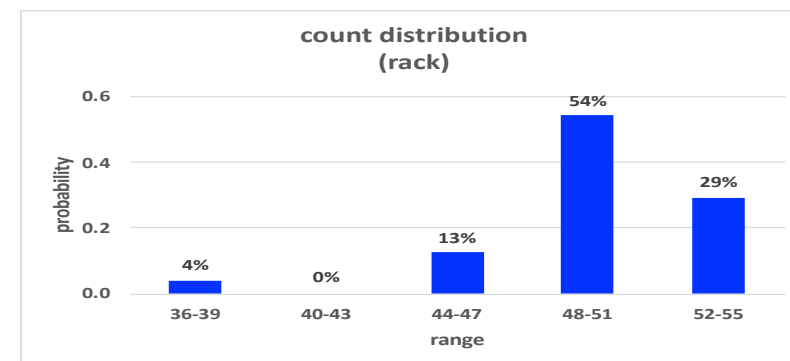
loadFactor	0.3
alpha (full)	0.2
beta (idle)	0.4
avg (non idle/full)	0.25
cov (coeff of variation)	1.5

Background allocated server load (CPU)

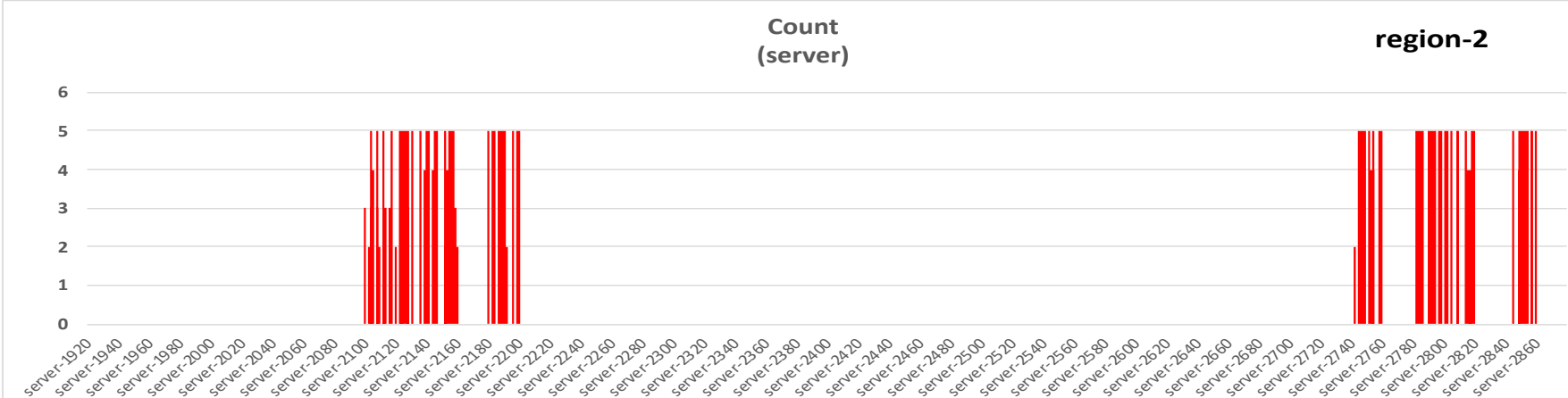
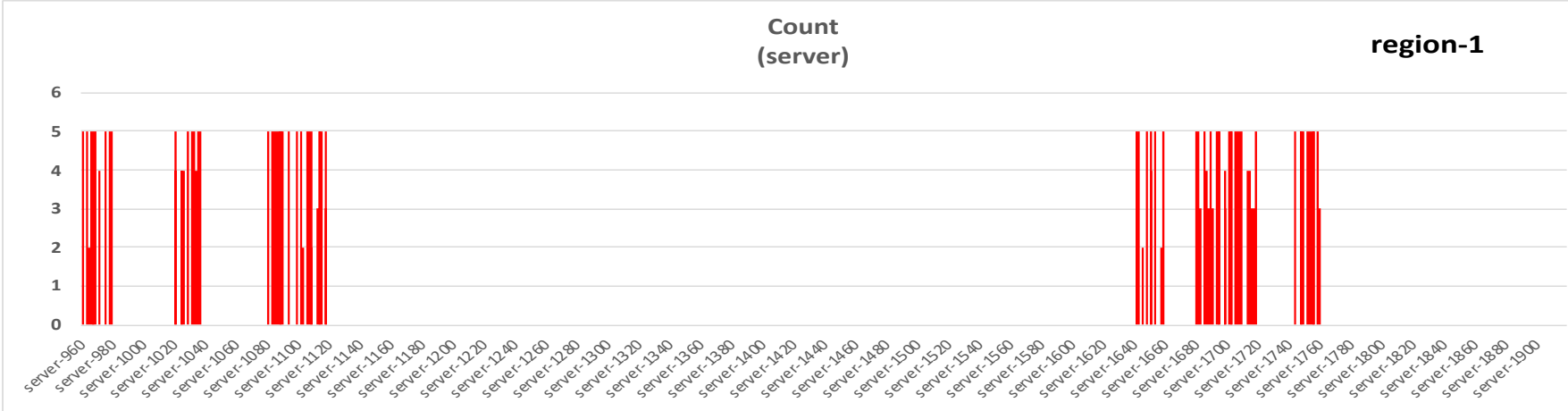
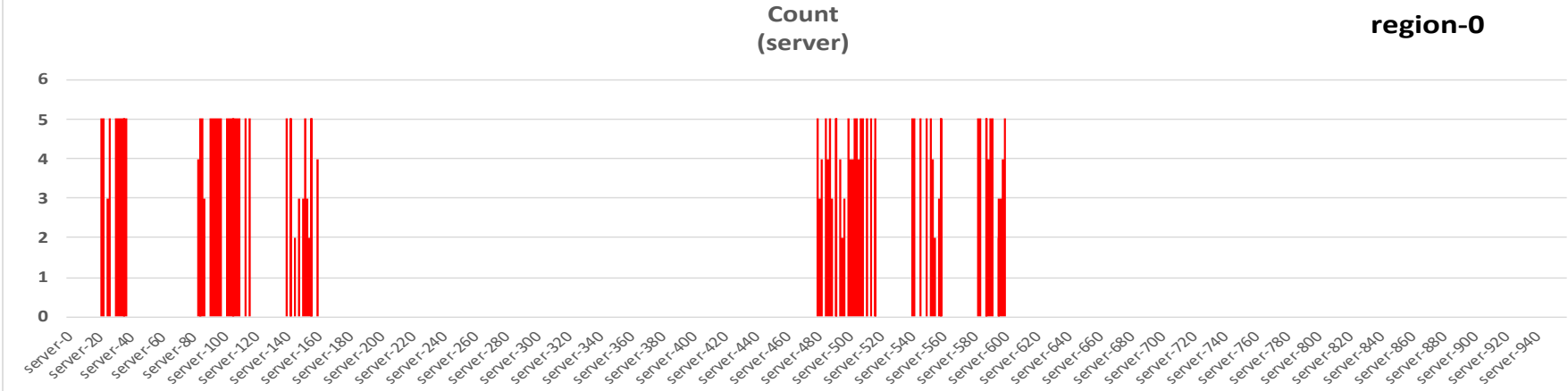




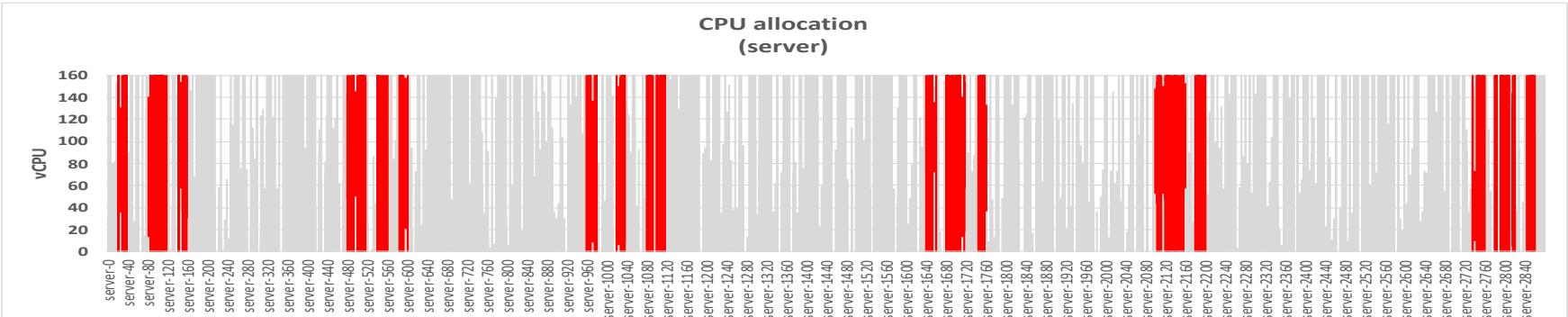
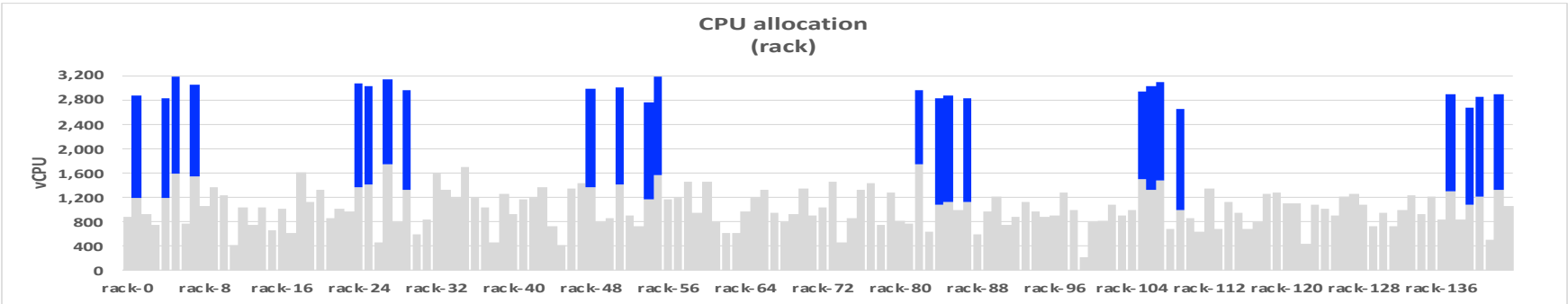
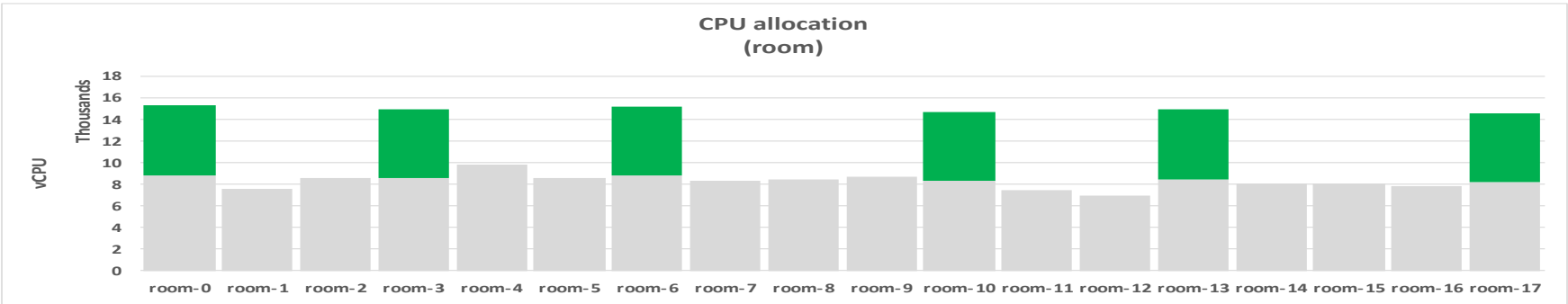
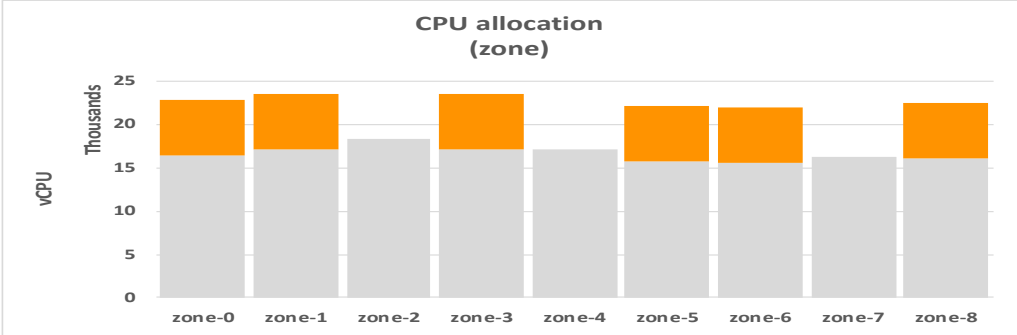
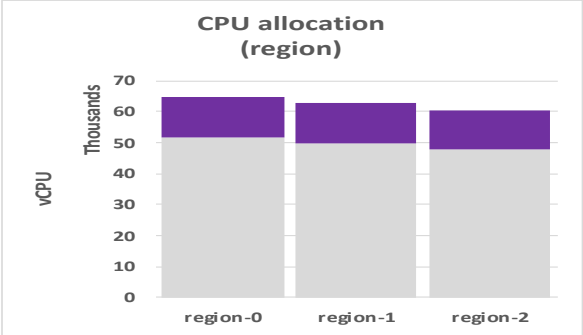
Distribution of group instances in the hierarchical topology



Distribution of group instances on servers
per region



CPU group allocation in the hierarchical topology



CPU group
allocation on servers
per region

