**#Auto-scaling algorithm pseudocode**

**#Key Parameters:**

#Checking interval in seconds  
BALANCER\_SLEEP\_TIME = 10

#Database  
redis = Redis(host=10.2.6.145, port=6379)

**#Algorithm pseudocode**

While True:

Wait for BALANCER\_SLEEP\_TIME

If current\_no\_of\_visitors = 0 and previous\_no\_of\_visitors > 0:

current\_no\_of\_visitors =0; previous\_no\_of\_visitors = 0

Get average\_response\_time from redis  
traffic\_intensity = (current\_no\_of\_visitors - previous\_no\_of\_visitors)/BALANCER\_SLEEP\_TIME\* average\_response\_time

factor = max(1, )

If number\_of\_containers >= factor and (number\_of\_containers – factor)/number\_of\_containers >=0.5:  
 number\_of\_containers = floor(factor)  
  
 else if number\_of\_containers < factor:  
 number\_of\_containers = ceil(factor)