

### 1. Cloud watch alarm raised at 13:43 regarding CPU usage over 20%

The screenshot shows the AWS CloudWatch Alarms console. The left sidebar contains navigation links for CloudWatch, Dashboards, Alarms, Billing, Logs, Metrics, Events, Rules, Event Buses, ServiceLens, Service Map, Traces, Container Insights, Resources, Performance Monitoring, Synthetics, Contributor Insights, Settings, and Favorites. The main content area displays a list of alarms. One alarm is active, with a state of 'In alarm' and a last state update of 2020-06-17 13:43:24. The alarm condition is 'CPUUtilization > 20 for 3 datapoints within 3 minutes'.

Name	State	Last state update	Conditions	Actions
TargetTracking-webapp-autoscalinggroup-theresa-AlarmHigh-8fdb47f0-7d32-43de-9e74-8ae430bb2493	In alarm	2020-06-17 13:43:24	CPUUtilization > 20 for 3 datapoints within 3 minutes	-

### 2. Auto scaling group scales out the instance number at 13:43

The screenshot shows the AWS EC2 Dashboard. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, IMAGES, and AMIs. The main content area displays a list of instances. The instance with ID i-0956722a111a07a26 is highlighted, showing a state of 'running' and a status of '2/2 checks ...'.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)	IPv4 Public IP
	i-022573f9c6030cfc	t2.micro	ap-southeast-2a	running	Initializing	None	3.24.179.25	
	i-04685d728457883...	t2.micro	ap-southeast-2b	running	Initializing	None	13.55.227.135	
	i-0956722a111a07a26	t2.micro	ap-southeast-2b	running	2/2 checks ...	None	3.25.133.13	
	i-0b03246fc75cb61c0	t2.micro	ap-southeast-2a	running	Initializing	None	3.25.92.196	
	i-025c25318a445ff08	t2.micro	ap-southeast-2a	stopped		None	-	
	i-07146a2a182c206f4	t2.micro	ap-southeast-2a	stopped		None	-	
	i-088f4d9720b7040ba	t2.micro	ap-southeast-2a	stopped		None	-	
	i-01e9514910f04922	t2.micro	ap-southeast-2b	terminated		None	-	

### 3. After stop running the stress, the cloudwatch alarm cleared at around 13:44

CloudWatch > Alarms

Switch to your original interface

Alarms (2) ☐ Hide Auto Scaling alarms

< 1 >

Name	State	Last state update	Conditions	Actions
No alarms No alarms to display <input type="button" value="Clear filter"/>				

#### 4. Auto scaling group scales in the instance number back to 1 at 14:02

aws Services Resource Groups

New EC2 Experience Tell us what you think

Launch Instance

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS (IPv4)
	i-0b03246fc75cb61c0	t2.micro	ap-southeast-2a	running	2/2 checks ...	None	
	i-04685d728457883...	t2.micro	ap-southeast-2b	shutting-do...		None	
	i-025c25318a445ff08	t2.micro	ap-southeast-2a	stopped		None	
	i-07146a2a182c206f4	t2.micro	ap-southeast-2a	stopped		None	
	i-088f4d9720b7040ba	t2.micro	ap-southeast-2a	stopped		None	
	i-01e9514910f404922	t2.micro	ap-southeast-2b	terminated		None	
	i-02257f3f9c6030cfc	t2.micro	ap-southeast-2a	terminated		None	
	i-0956722a111a07a26	t2.micro	ap-southeast-2b	terminated		None	

aws Services Resource Groups

Create Auto Scaling group

Filter:

Name	Launch Configuration / ~	Instances	Desired	Min	Max	Availability Zones	DefaultCooldown	Health Check
webapp-autos...	webappASG-launch-te...	3	1	1	4	ap-southeast-2b, ap-southea...	300	0

Auto Scaling Group: webapp-autoscalinggroup-theresa

Filter:

Status	Description	Start Time	End Time
Successful	Terminating EC2 instance: i-04685d728457883a0	2020 June 17 14:03:41 UTC+10	2020 June 17 14:08:43 UTC+10
Successful	Terminating EC2 instance: i-02257f3f9c6030cfc	2020 June 17 14:03:09 UTC+10	2020 June 17 14:08:26 UTC+10
Successful	Terminating EC2 instance: i-0956722a111a07a26	2020 June 17 14:02:07 UTC+10	2020 June 17 14:07:19 UTC+10
Successful	Launching a new EC2 instance: i-04685d728457883a0	2020 June 17 13:43:37 UTC+10	2020 June 17 13:49:09 UTC+10
Successful	Launching a new EC2 instance: i-02257f3f9c6030cfc	2020 June 17 13:43:37 UTC+10	2020 June 17 13:49:09 UTC+10
Successful	Launching a new EC2 instance: i-0b03246fc75cb61c0	2020 June 17 13:43:37 UTC+10	2020 June 17 13:49:09 UTC+10
Successful	Launching a new EC2 instance: i-0956722a111a07a26	2020 June 17 13:31:47 UTC+10	2020 June 17 13:32:19 UTC+10