

## Arvados - Story #15865

### [arvados-dispatch-cloud] Cumulative instance time and cost metrics

11/21/2019 09:48 PM - Tom Clegg

<b>Status:</b> New	<b>Start date:</b>
<b>Priority:</b> Normal	<b>Due date:</b>
<b>Assigned To:</b>	<b>% Done:</b> 0%
<b>Category:</b>	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b> Arvados Future Sprints	
<b>Description</b> From <a href="#">Dispatching containers to cloud VMs</a> <ul style="list-style-type: none"><li>(counter) cumulative instance time and cost, partitioned by allocation state and node type</li></ul> In principle, these metrics can be estimated based on the existing instances_total and instances_price metrics. However: <ul style="list-style-type: none"><li>prometheus doesn't offer an integral function</li><li>updating a cumulative metric after every worker/pool update (i.e., in updateMetrics()) would provide decent accuracy even when prometheus sampling is infrequent/unreliable.</li></ul>	
<b>Related issues:</b>	
Related to Arvados - Story #13908: [Epic] Replace SLURM for cloud job schedul...	<b>Resolved</b>
Related to Arvados - Feature #16636: [arvados-dispatch-cloud] Add instance me...	<b>Resolved</b> 08/03/2020

#### History

##### #1 - 11/21/2019 09:48 PM - Tom Clegg

- Related to Story #13908: [Epic] Replace SLURM for cloud job scheduling/dispatching added

##### #2 - 11/25/2019 03:37 PM - Tom Clegg

example

```
instance_usage_cost{category="inuse",instance_type="z1.xxl"} 1.234
instance_usage_seconds{category="inuse",instance_type="z1.xxl"} 3600
```

##### #3 - 07/29/2020 01:50 PM - Tom Clegg

- Related to Feature #16636: [arvados-dispatch-cloud] Add instance metrics added