

Windows Azure Batch Ibiza explorations

Kshitij Gupta, Violet Cong & Ryan Baker

Scenario

PERSONA

- Developers build upper level services on top of Windows Azure Batch, e.g.:
 - WAMS developers;
 - TW Moses developer Cameron.
- DevOps manage and operate on underlying services, e.g.:
 - WAMS PM;
 - TW Ops.

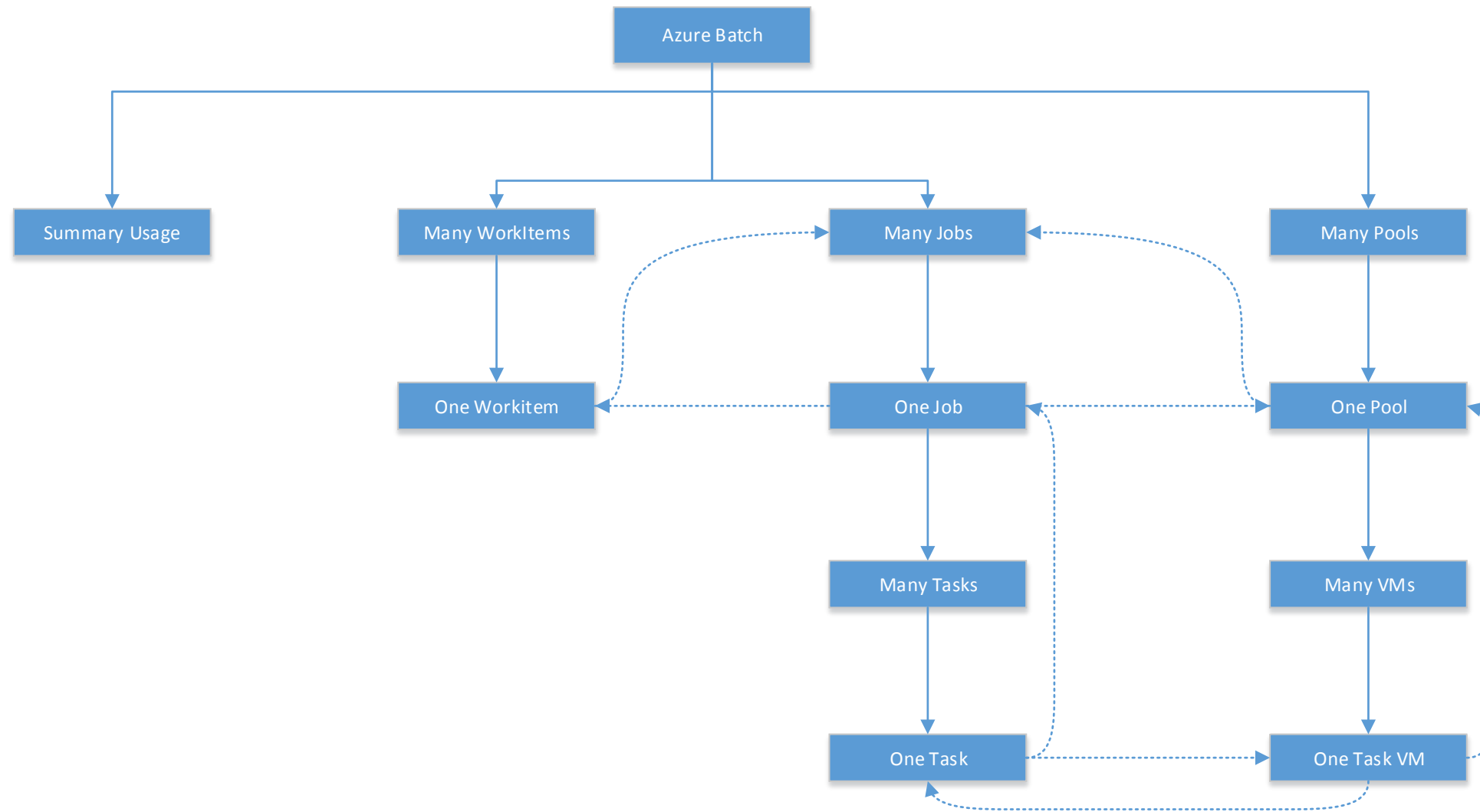
USER PAIN POINTS

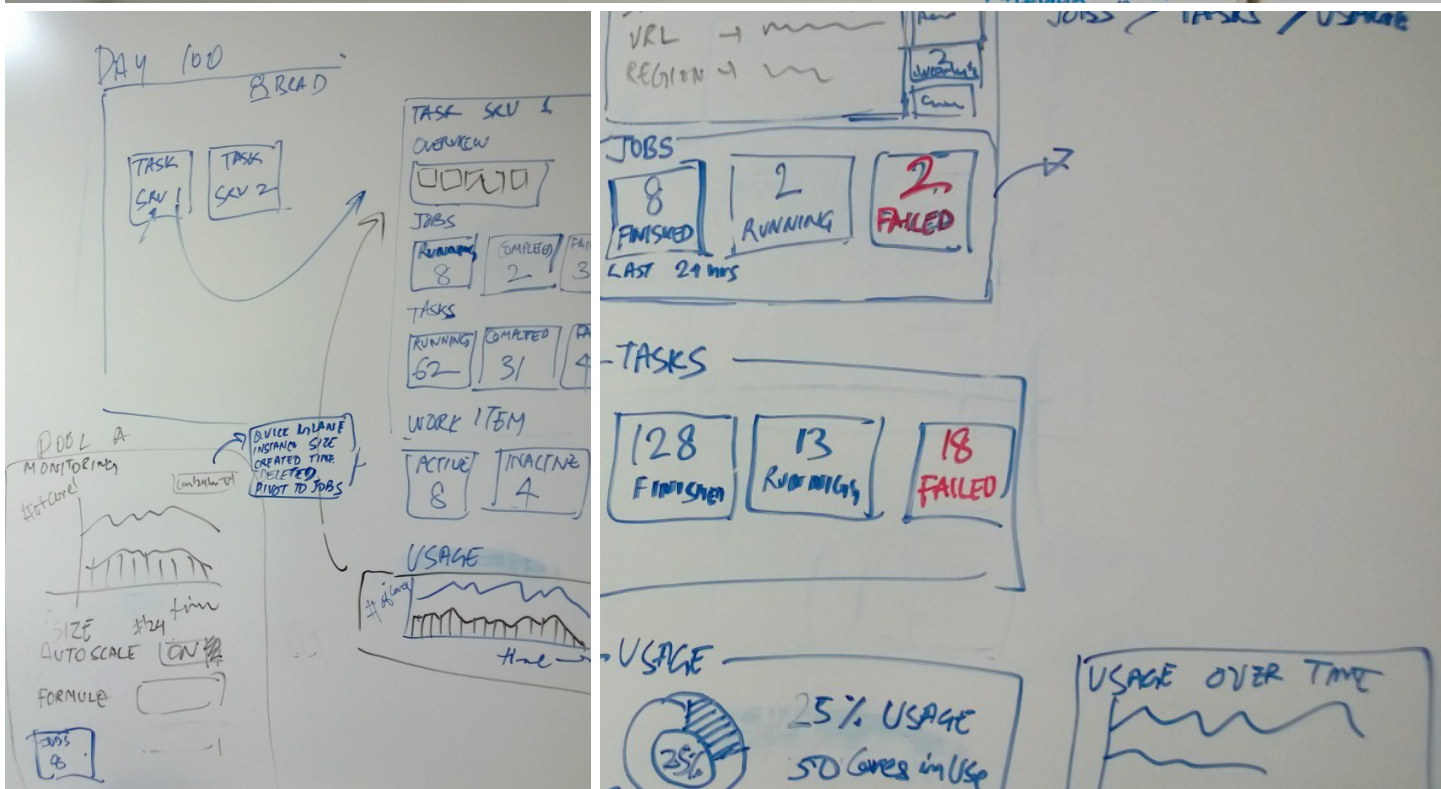
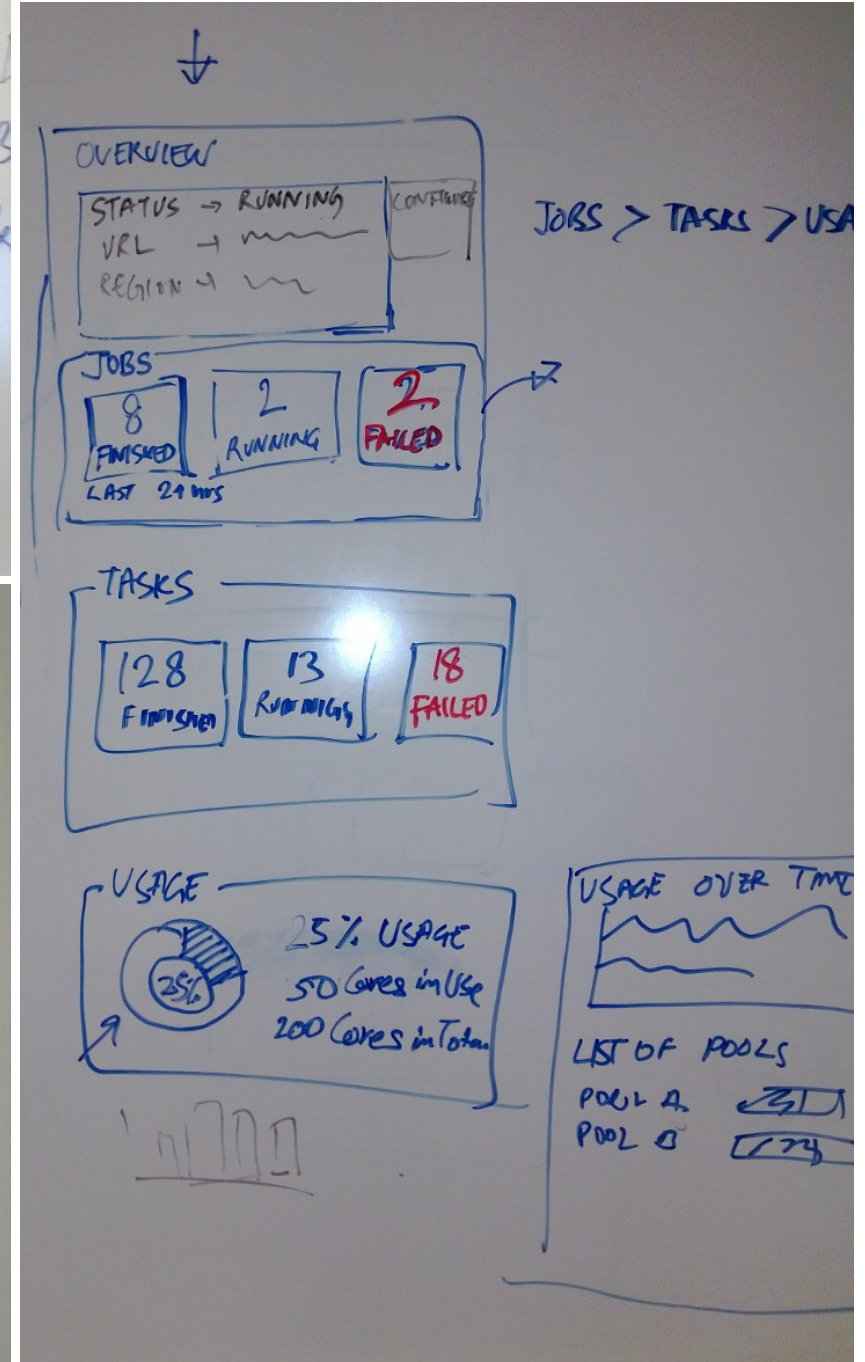
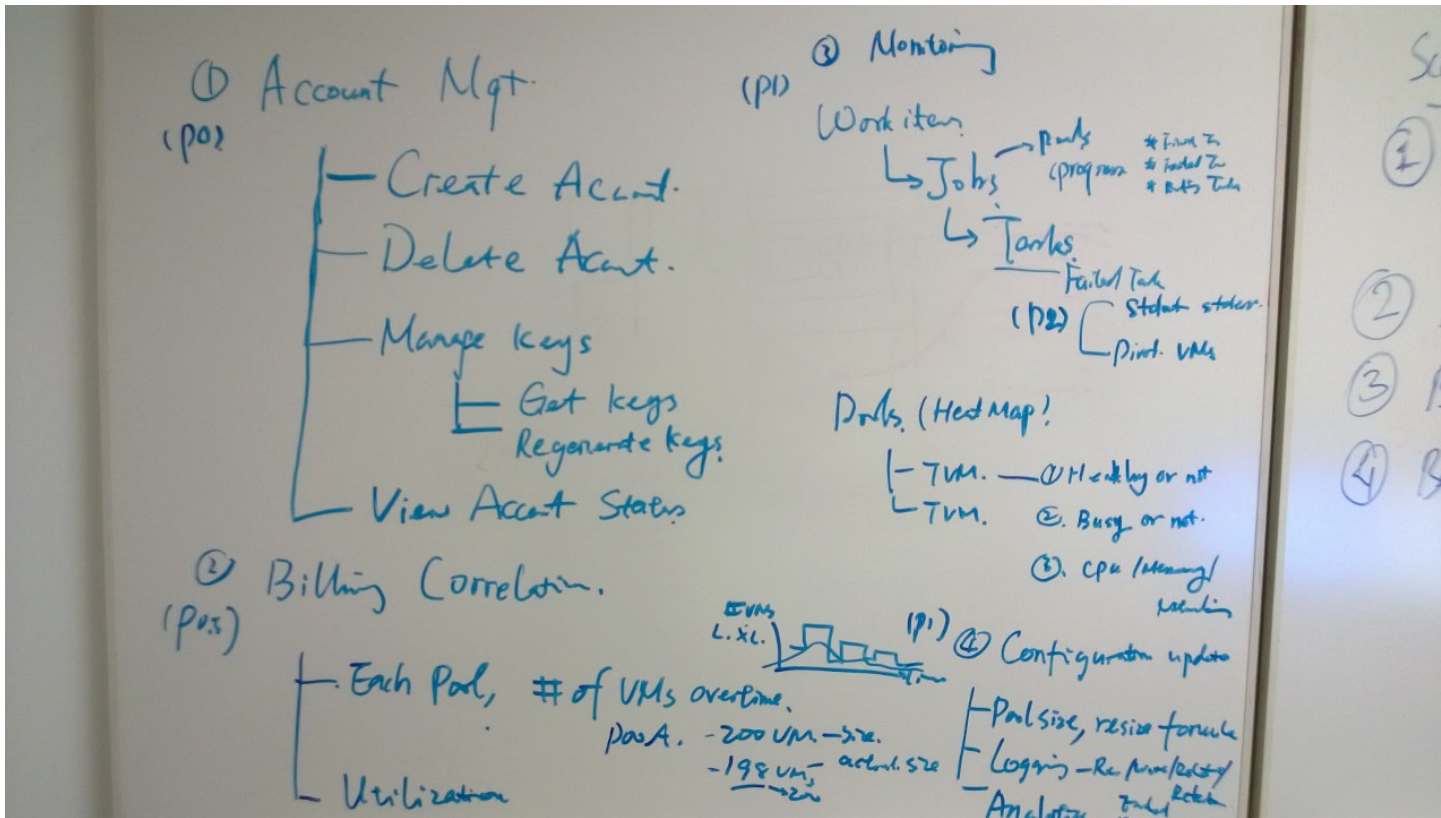
- I don't have an integrated way to monitor and manage underlying services like Windows Azure Batch except for the REST API/CLI interfaces.
- I don't have an easy way to understand my resource utilization to correlate with the bill I get and be more cost effective.
- I don't have an easy way to monitor my jobs after submitting to Windows Azure Batch, monitor the resource utilization while the tasks running and troubleshoot if any issues happen.

HAPPY ENDING

- I can use Azure management portal to easily provision a "Batch" service.
- I can view my resource usage from portal to correlate with the bill I get to be more cost effective.
- I can interact with my Azure Batch deployments, which includes monitoring the current and historical work items, jobs and tasks, viewing the list of pools and monitoring the health/performance of Task VMs, updating configurations.

Overview





Scenario I: Account Management

Windows Azure

Cameron



Home



Notifications



Teams



Journeys



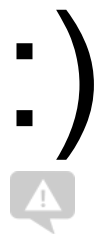
Help



Billing



NOTIFICATIONS



Welcome to the new Windows Azure!
We think it's pretty awesome, hopefully
you do too. Take a look around...



Take a tour



Create a Resource

RESOURCES

6



PROJECTS

0



TEAMS

0



New Website



New Project



New VM



New Database



Windows Azure Store



Get the tools

AZURE BATCH

TW_TEST



Navigation sidebar with icons for Home, Notifications, Teams, Journeys, Help, Billing, Search, and a plus sign.

Website



Database



Batch Account



Website + Database



Virtual Machine



See all results

Cameron



Take a tour



Create a Resource

TEAMS

0



AZURE BATCH

TW_TEST



 New Website	 New Project
 New VM	 New Database

Cameron



Azure Batch Account



URL	<input type="text" value="Moses"/> <small>.task.core.windows.net</small>
REGION	<input type="text" value="West US"/>
SUBSCRIPTION	<input type="text" value="Default"/>

CREATE



Home



Notifications



Teams



Journeys



Help



Billing



Create a Resource



Website



New Project



New VM



New Database



Windows Azure

Cameron



NOTIFICATIONS



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Create a Resource

RESOURCES

6



PROJECTS

0



TEAMS

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Windows Azure Store



Get the tools

AZURE BATCH

TW_TEST



AZURE BATCH

MOSES



Home



Notifications



Teams



Journeys



Help



Billing



Cameron

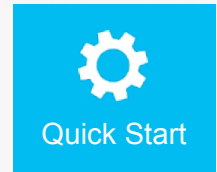


Moses



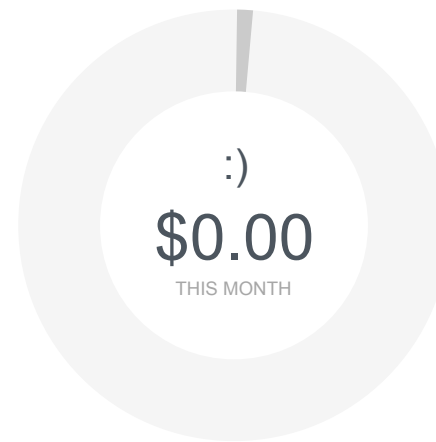
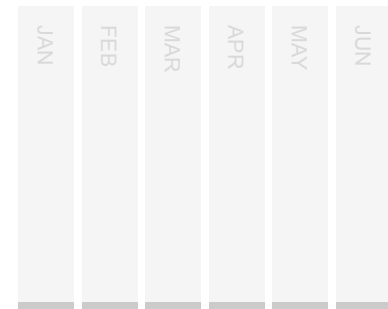
QUICK GLANCE

STATUS	Running
URL	http://moses.task.core.windows.net
LOCATION	West US
SUBSCRIPTION	Default



USAGE

Monthly Usage



COMPUTE



NETWORK



0
RUNNING JOBS

0 COMPLETED
0 FAILED

0 ACTIVE
WORKITEMS



No jobs notifications yet.

0 RUNNING
TASKS

0



Home



Notifications



Teams



Journeys



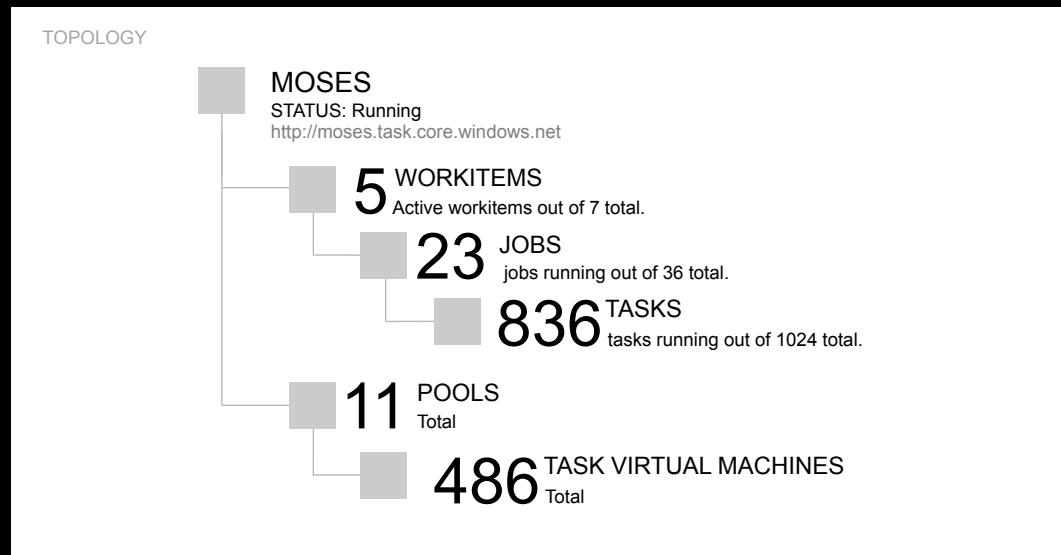
Help



Billing

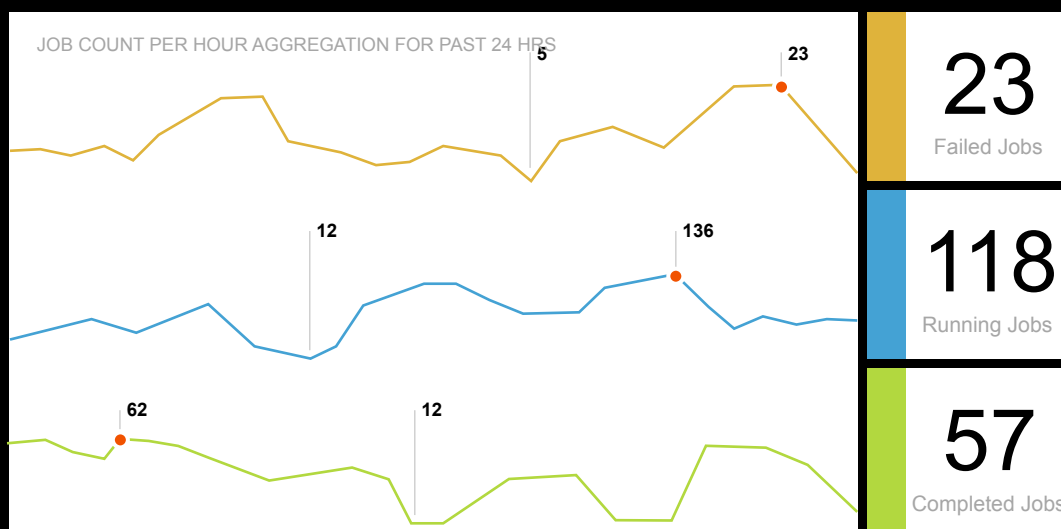


Other explorations



Service Topology

- Used to show relationship between different concepts like workitems, jobs, tasks etc. in Azure Batch.



Trending

- Used to visualize trending of jobs and task completion over time.

Cameron



Moses

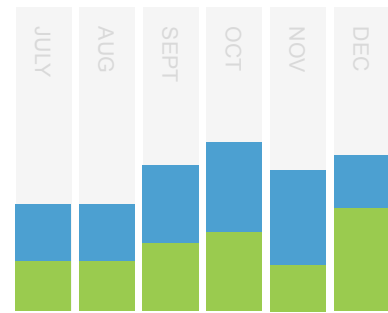


QUICK GLANCE

STATUS	Running
URL	http://moses.task.core.windows.net
LOCATION	West US
SUBSCRIPTION	Default

USAGE

Monthly Usage



COMPUTE



NETWORK



23
RUNNING JOBS

36 COMPLETED
2 FAILED



Task_123 in workitem1/job...001 completed with error code 10
workitem2/job...002 has completed successfully
workitem2/job...003 has started

25 ACTIVE WORKITEMS

836 RUNNING TASKS

11



Home



Notifications



Teams



Journeys



Help



Billing



Cameron



Moses

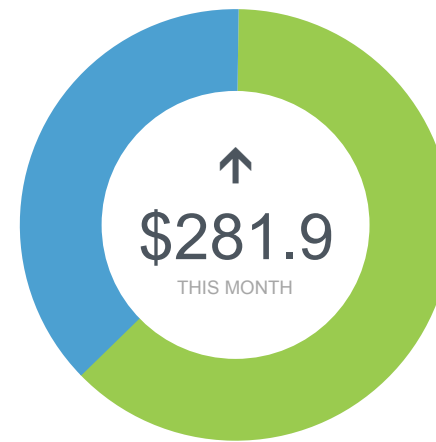
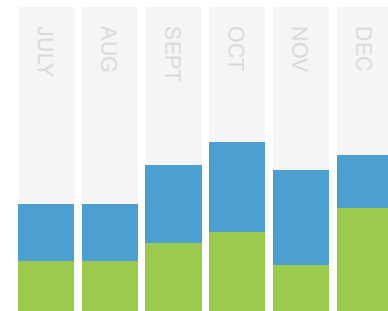


QUICK GLANCE

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SUBSCRIPTION	Default

USAGE

Monthly Usage



COMPUTE



NETWORK



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Home



Notifications



Teams



Journeys




Help



Billing



Cameron 



Home



Notifications

Create a Resource



Teams



Journeys



Help



Billing



Moses



Manage Access Keys



Configuration



Manage Certificates

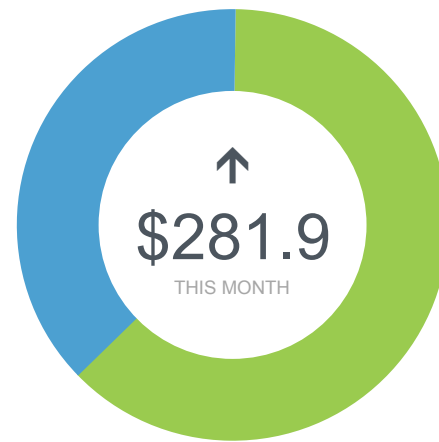
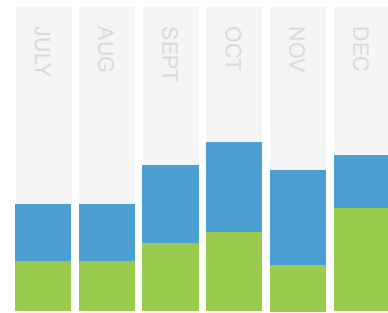


Delete

LOCATION **west US**
SUBSCRIPTION **Default**

USAGE

Monthly Usage



COMPUTE

90.1
core*hrs



NETWORK

83 GB **65** GB
Inbound Outbound

23
RUNNING JOBS

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836 RUNNING TASKS

11

Cameron



Home



Notifications



Teams



Journeys



Help



Billing



Create a Resource

New Project

New Database

Moses



Manage Access Keys

Configuration

Manage Certificates

Delete

Manage Access Keys

Primary Access Key

2xApr2rplBZ3JlgxFEpGvTzA/Oiy931SNb9uxFi
+VvYI2TsT



REGENERATE

Secondary Access Key

QZUASusa8GLI/
tPvxeDRg03VBVPpeFAarAvH8AgLtJDCFoWi



REGENERATE



COMPUTE

90.1
core*hrs



NETWORK

83 GB Inbound 65 GB Outbound

23

RUNNING JOBS

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ACTIVE WORKITEMS

836

RUNNING TASKS

11

Cameron 



Home



Notifications



Teams



Journeys



Help



Billing



Moses




Manage
Access Keys


Configuration

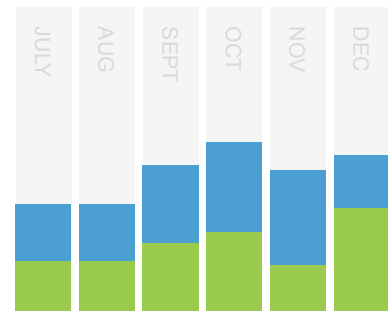

Manage
Certificates


Delete

LOCATION **west US**
SUBSCRIPTION **Default**

USAGE

Monthly Usage



COMPUTE

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core*hrs



NETWORK

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TASKS

11



Home



Notifications



Teams



Journeys



Help



Billing

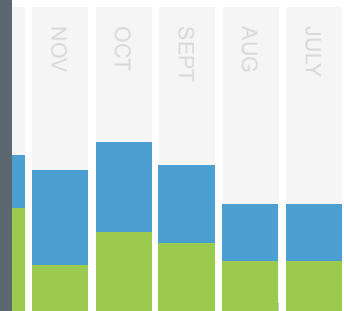


Configuration



Configure

Monthly Usage



NETWORK

83 GB Inbound 65 GB Outbound

Inbound Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS

Logging

PERMISSIONS

READ ONLY

READ & WRITE

RETENTION POLICY

ENABLE

DISABLE

RETAIN DATA FOR



Metrics

INCLUDE APIs

TRUE

FALSE


RETENTION POLICY

ENABLE

DISABLE

RETAIN DATA FOR



Cameron 



Home



Notifications



Teams



Journeys



Help



Billing



Create a Resource

New Project

New Database

Moses



Manage Access Keys



Configuration



Manage Certificates



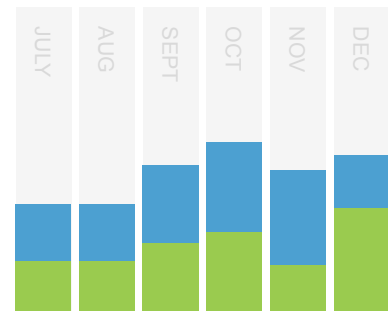
Delete

LOCATION: west US

SUBSCRIPTION: Default

USAGE

Monthly Usage



COMPUTE

90.1
core*hrs



NETWORK

83 GB Inbound
65 GB Outbound

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ACTIVE WORKITEMS

836
RUNNING TASKS

11



Home



Notifications



Teams



Journeys



Help



Billing



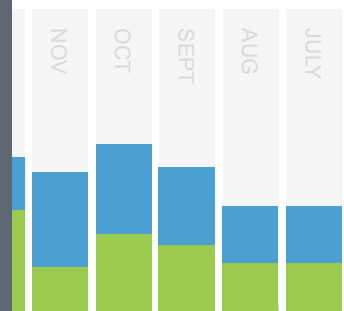
Certificates



Configure

NAME	THUMBPRINT	ALGORITHM	STATE
Certificate_123	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Active
Certificate_124	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Deleting
Certificate_125	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Delete Failed
Certificate_126	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Active
Certificate_127	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Deleting

Monthly Usage



NETWORK

83 GB Inbound 65 GB Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS



Home



Notifications



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Journeys



Help

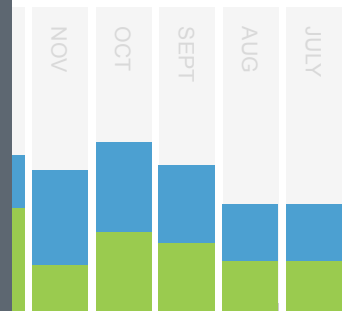


Billing



Configure

Monthly Usage



NETWORK

83 GB **65** GB
Inbound Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS

Certificates



+ Add Certificate
x Delete Certificate

Certificate_125	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Delete Failed
Certificate_126	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Active
Certificate_127	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Deleting

Vertical navigation sidebar with icons and labels:

- Home
- Notifications
- Teams
- Journeys
- Help
- Billing
- Search
- +


Certificates

Close (X) | Refresh (Circular arrow)

+ Add Certificate **×** Delete Certificate


Upload a certificate

FILE

Browse For File... 

PASSWORD

Close (X) | Confirm (Checkmark)

Configure 

Monthly Usage

Month	Usage
NOV	Low
OCT	Medium
SEPT	Medium
AUG	Low
JULY	Low

→

NETWORK

83 GB Inbound	65 GB Outbound
----------------------	-----------------------

5 ACTIVE WORKITEMS

836 RUNNING TASKS



Home



Notifications



Teams



Journeys



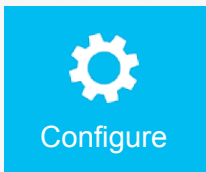
Help



Billing

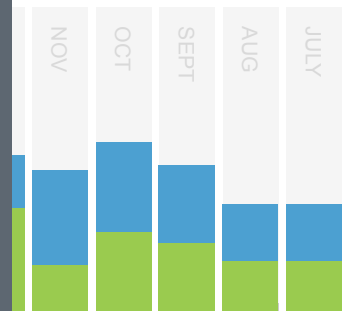


Certificates



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Certificate_123	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Active
Certificate_124	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Deleting
Certificate_125	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Delete Failed
Certificate_126	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Active
Certificate_127	2EA90CBB65EFCF71C92F55363954A1...	SHA1	Deleting

Monthly Usage




NETWORK

83 GB **65** GB
Inbound Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS

Cameron 



Home



Create a Resource



Notifications



Teams



Journeys



Help



Billing



Moses



Manage Access Keys



Configuration



Manage Certificates



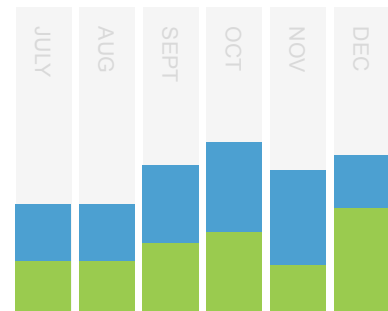
Delete

LOCATION: west US

SUBSCRIPTION: Default

USAGE

Monthly Usage



COMPUTE

90.1
core*hrs



NETWORK

83 GB **65** GB
Inbound Outbound

23
RUNNING JOBS

36 COMPLETED
2 FAILED




Task_123 in workitem1/job...001 completed with error code 10
workitem2/job...002 has completed successfully
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25 ACTIVE WORKITEMS

836 RUNNING TASKS

11

Cameron 



Home



Notifications



Teams



Journeys



Help



Billing



Create a Resource



New Project

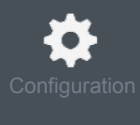


New Database

Moses



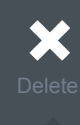
Manage Access Keys



Configuration



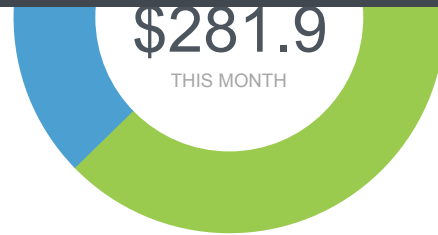
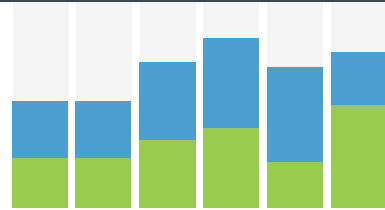
Manage Certificates



Delete

Delete Moses, you sure?

Cliche yr next level non art party. Sustainable ough plaid mixtape fanny pack, swag disrupt consectetur 3 wolf moon nihil banjo chambray master cleanse art party.



COMPUTE

90.1

core*hrs



NETWORK

83 GB 65 GB

Inbound Outbound

23

RUNNING JOBS

36 COMPLETED
2 FAILED



Task_123 in workitem1/job...001 completed with error code 10
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25

ACTIVE WORKITEMS

836

RUNNING TASKS

11

Scenario II: Billing Correlation

Cameron



Moses

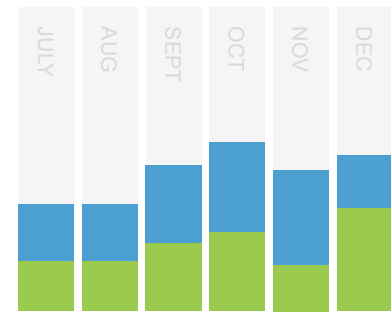


QUICK GLANCE

STATUS	Running
URL	http://moses.task.core.windows.net
LOCATION	West US
SUBSCRIPTION	Default

USAGE

Monthly Usage



COMPUTE



NETWORK



23
RUNNING JOBS

36 COMPLETED
2 FAILED



Task_123 in workitem1/job...001 completed with error code 10
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25 ACTIVE WORKITEMS

836 RUNNING TASKS

11



Home



Notifications



Teams



Journeys



Help



Billing





Home



Notifications



Teams



Journeys



Help



Billing



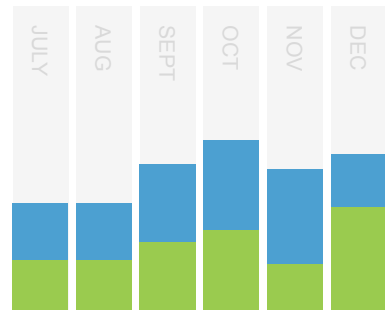
Resource Usage



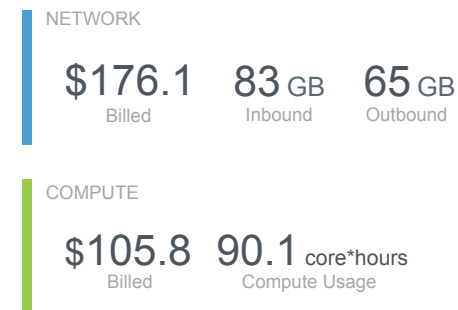
Configure

SUMMARY

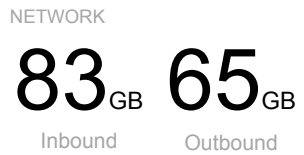
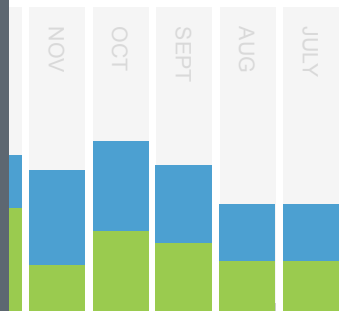
Monthly Usage



Usage this month



Monthly Usage

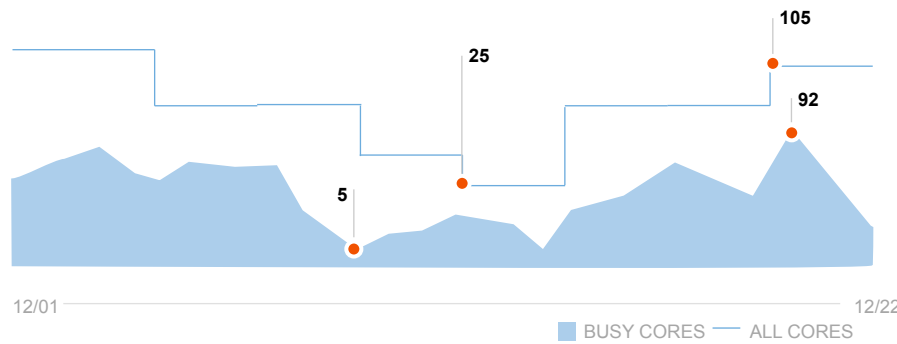


5 ACTIVE WORKITEMS

836 RUNNING TASKS

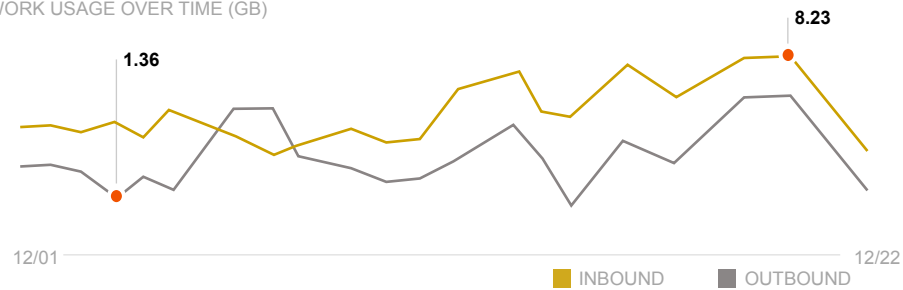
BUSY CORES OVER TIME

[1d](#) | [1wk](#) | [1m](#) | [3m](#) | [6m](#) | [YTD](#) | [1yr](#) | [All](#)



Exploration with timeline filters as links.

NETWORK USAGE OVER TIME (GB)





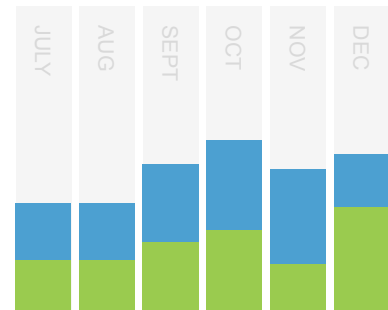
Resource Usage



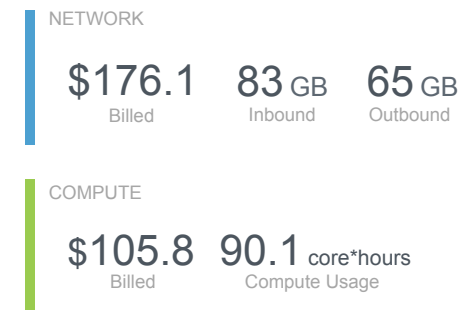
Configure

SUMMARY

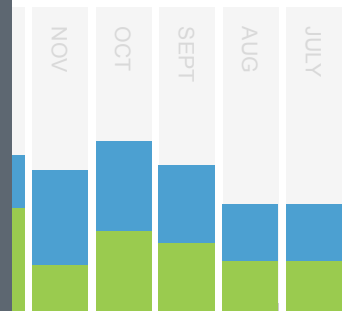
Monthly Usage



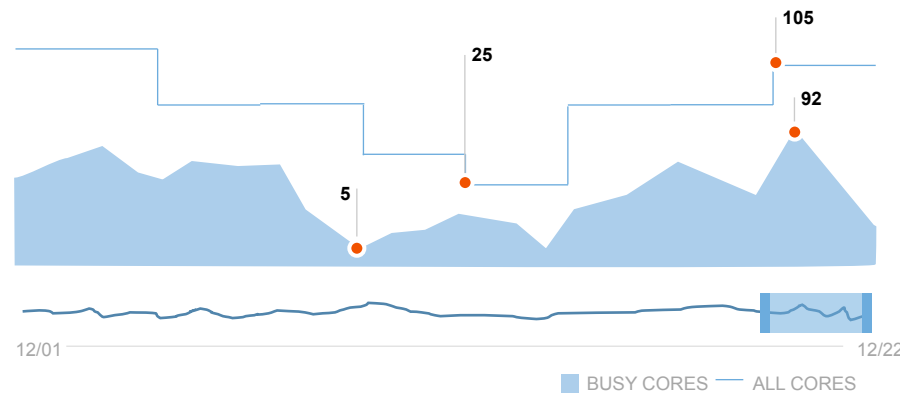
Usage this month



Monthly Usage

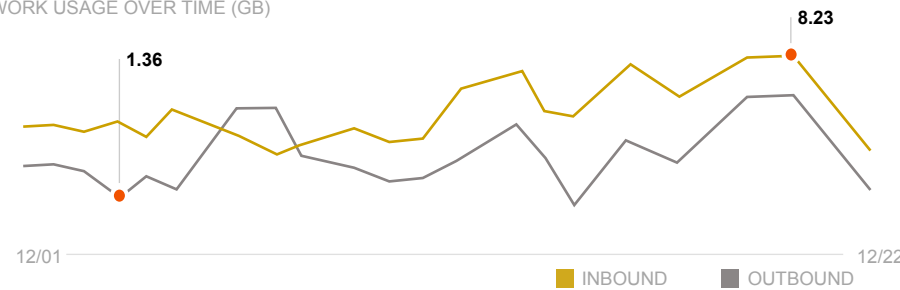


BUSY CORES OVER TIME



Exploration with timeline filters as slider.

NETWORK USAGE OVER TIME (GB)



Home



Notifications



Teams



Journeys



Help



Billing





Home



Notifications



Teams



Journeys



Help



Billing



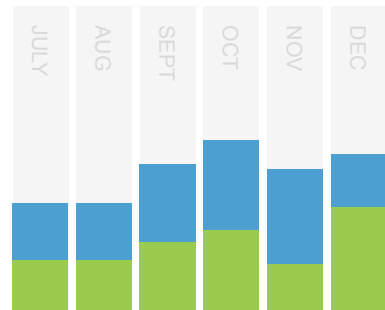
Resource Usage



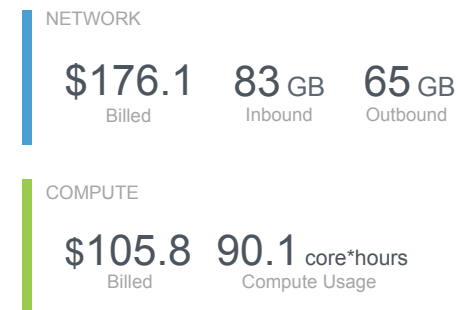
Configure

SUMMARY

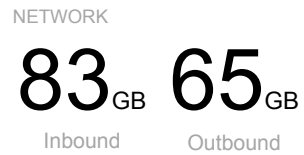
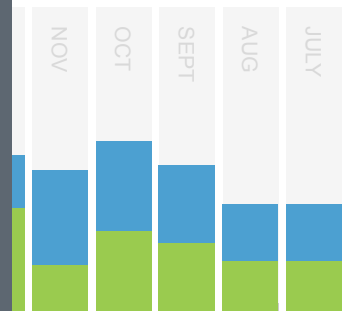
Monthly Usage



Usage this month



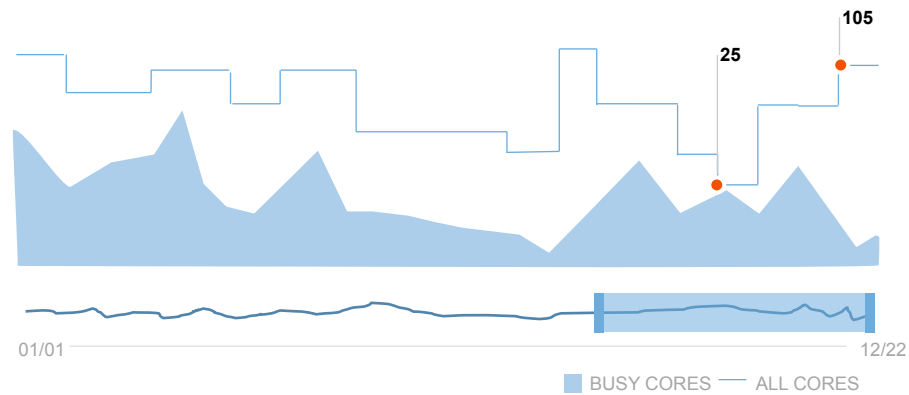
Monthly Usage



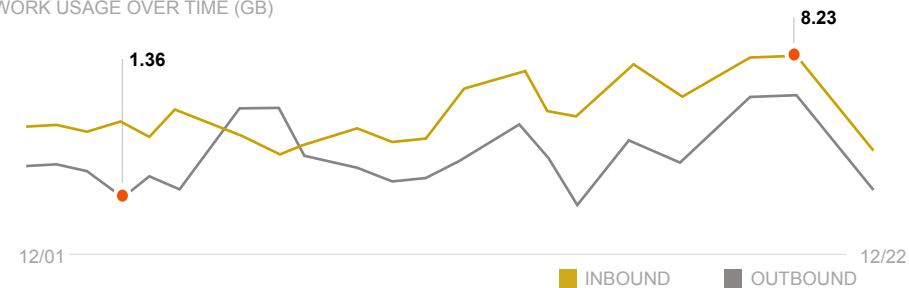
5 ACTIVE WORKITEMS

836 RUNNING TASKS

BUSY CORES OVER TIME



NETWORK USAGE OVER TIME (GB)



Scenario III: Monitoring

Cameron



Moses

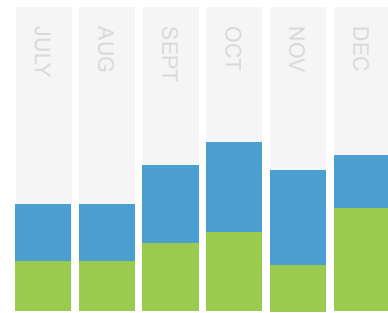


QUICK GLANCE

STATUS	Running
URL	http://moses.task.core.windows.net
LOCATION	West US
SUBSCRIPTION	Default

USAGE

Monthly Usage



COMPUTE



NETWORK



23
RUNNING JOBS

36 COMPLETED
2 FAILED



Task_123 in workitem1/job...001 completed with error code 10
workitem2/job...002 has completed successfully
workitem2/job...003 has started

25 ACTIVE WORKITEMS

836 RUNNING TASKS

11



Home



Notifications



Teams



Journeys



Help



Billing





All Pools



List view Heatmap view

NAME	VM TYPE	POOL SIZE	STATE	USAGE
Pool_123	XLarge	25	Online	<div style="width: 75%;"></div>
Pool_124	Medium	50	Online	<div style="width: 60%;"></div>
Pool_125	Large	25	Online	<div style="width: 20%;"></div>
Pool_126	XLarge	25	Online	<div style="width: 10%;"></div>
Pool_127	Medium	25	Online	<div style="width: 25%;"></div>
Pool_128	Large	100	Online	<div style="width: 5%;"></div>
Pool_129	XLarge	25	Online	<div style="width: 80%;"></div>
Pool_120	Medium	50	Online	<div style="width: 65%;"></div>
Pool_131	Large	50	Online	<div style="width: 15%;"></div>
Pool_132	XLarge	50	Online	<div style="width: 10%;"></div>
Pool_133	XLarge	100	Online	<div style="width: 20%;"></div>
Pool_134	Medium	25	Online	<div style="width: 5%;"></div>
Pool_135	Large	25	Online	<div style="width: 85%;"></div>
Pool_136	XLarge	25	Online	<div style="width: 70%;"></div>
Pool_137	Medium	50	Online	<div style="width: 20%;"></div>
Pool_138	Large	25	Online	<div style="width: 10%;"></div>
Pool_139	XLarge	100	Online	<div style="width: 25%;"></div>
Pool_130	Medium	125	Online	<div style="width: 5%;"></div>
Pool_141	Large	25	Online	<div style="width: 80%;"></div>
Pool_142	XLarge	25	Online	<div style="width: 65%;"></div>



Home



Notifications



Teams



Journeys



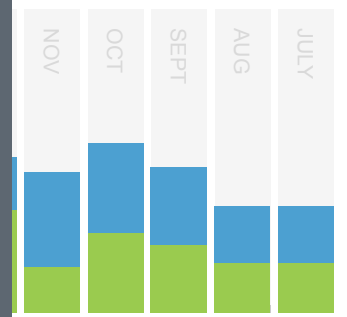
Help



Billing



Monthly Usage



NETWORK

83 GB **65** GB

Inbound Outbound



5 ACTIVE WORKITEMS

836 RUNNING TASKS



Configure



Home



Notifications



Teams



Journeys



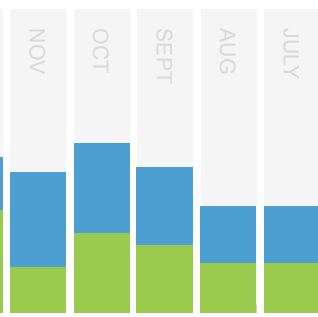
Help



Billing



Monthly Usage



NETWORK

83 GB **65** GB
Inbound Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS

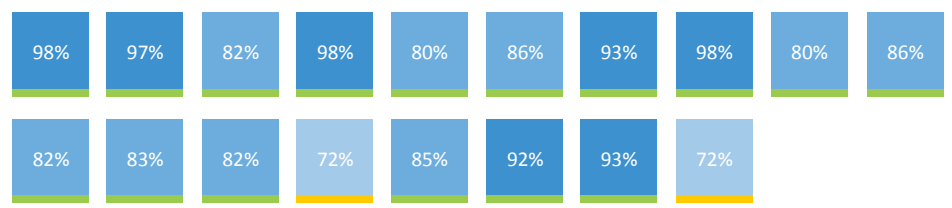
All Pools



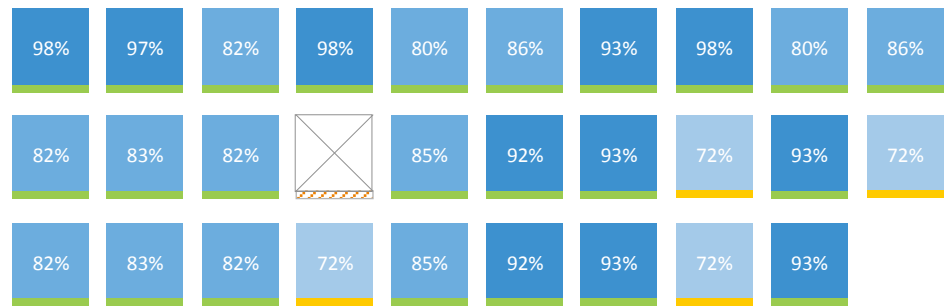
List view Heatmap view

Choose Metric: Memory

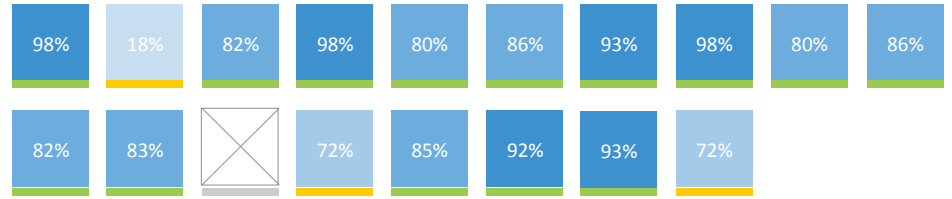
POOL_123



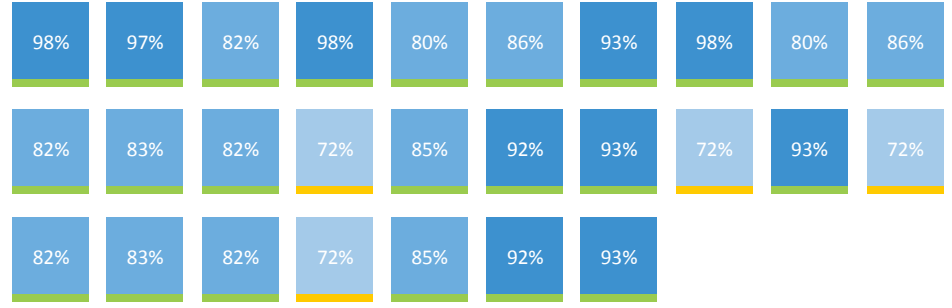
POOL_124



POOL_125



POOL_126



POOL_127



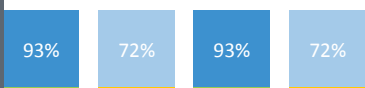
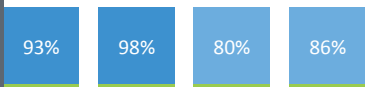
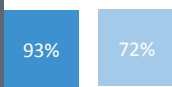
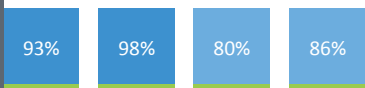
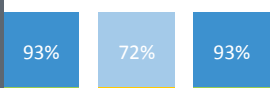
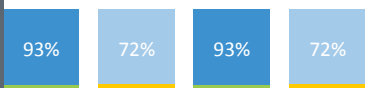
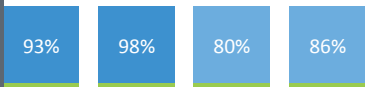
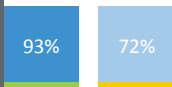
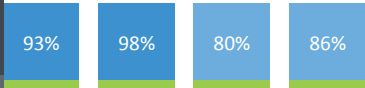
■ RUNNING
 ■ IDLE
 REBOOTING/ REIMAGING
 UNUSABLE



Pool_123



Choose Metric: **Memory**



DETAILS

NO. OF VIRTUAL MACHINES **84**

VM TYPE XLarge

CREATED TIME 9/27/2013 2:41:07 PM

AUTO SCALE Yes

AUTO SCALE FORMULA <Default>

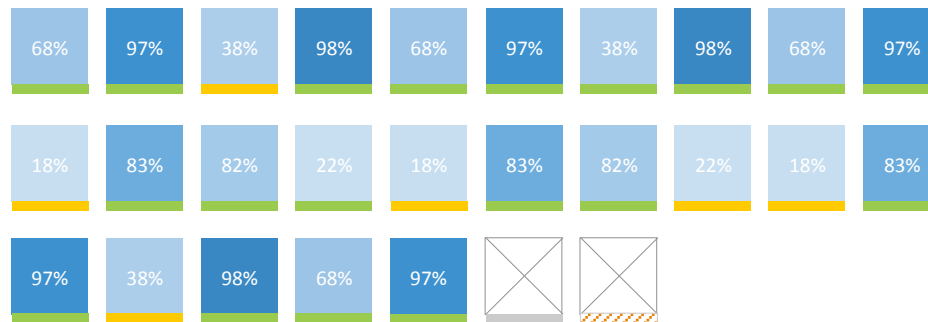


HEAT MAP (TASK VIRTUAL MACHINES)

List view

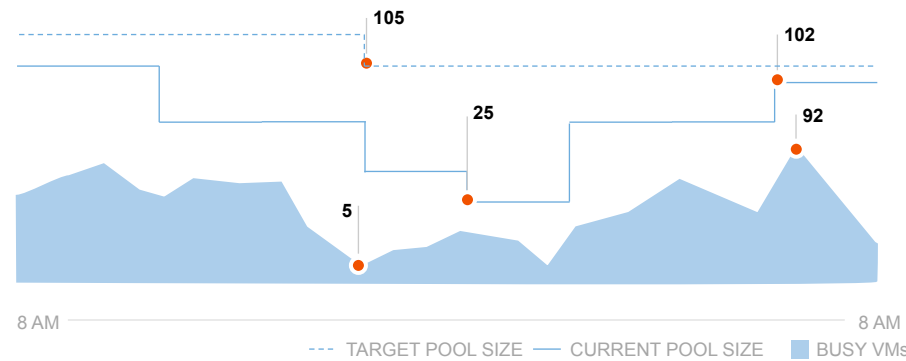
Heatmap view

Choose Metric: **CPU**



RUNNING TASKS OVER TIME

1d | 1wk | 1m | 3m | 6m | YTD | 1yr | All



RELATED

RELATED

8 Jobs

84 VMs



Home



Notifications



Teams



Journeys



Help



Billing



Configuration



POOL SIZE

25

INSTANCE SIZE

XLarge

AUTO SCALE

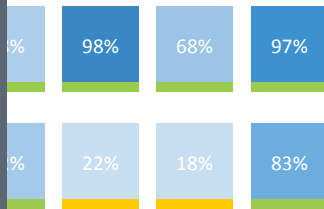
ON

OFF

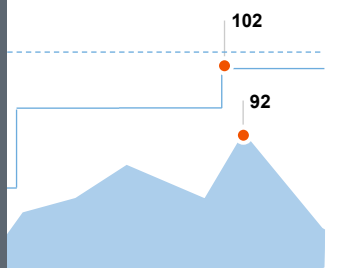
AUTO SCALE FORMULA

```
totalTVMs =
(min($CPUPercent.GetSample(TimeInterval_Minute*10)) > 0.7) ?
($CurrentDedicated * 1.1) : $CurrentDedicated;
totalTVMs =
(avg($CPUPercent.GetSample(TimeInterval_Minute*60)) < 0.2) ?
($CurrentDedicated * 0.9) : totalTVMs;
$TargetDedicated = min(400, totalTVMs);
```

Choose Metric: CPU



1d | 1wk | 1m | 3m | 6m | YTD | 1yr | All

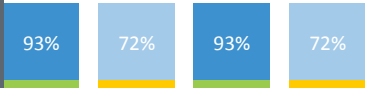
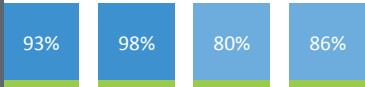
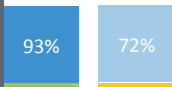
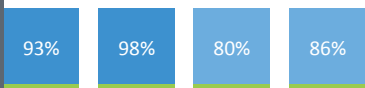
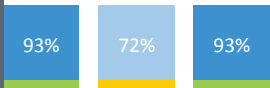
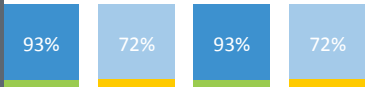
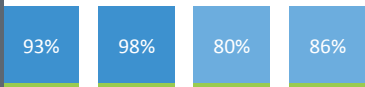
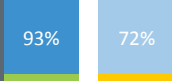
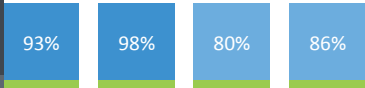




Pool_123



Choose Metric: **Memory**



DETAILS

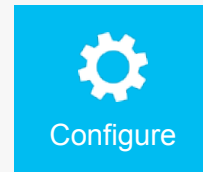
NO. OF VIRTUAL MACHINES **84**

VM TYPE XLarge

CREATED TIME 9/27/2013 2:41:07 PM

AUTO SCALE Yes

AUTO SCALE FORMULA <Default>

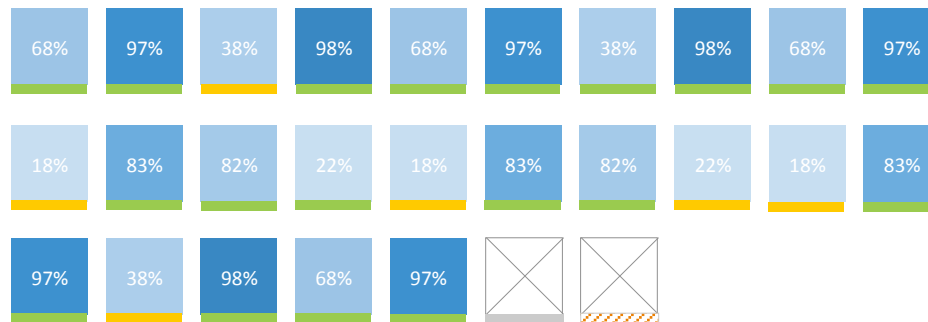


HEAT MAP (TASK VIRTUAL MACHINES)

List view

Heatmap view

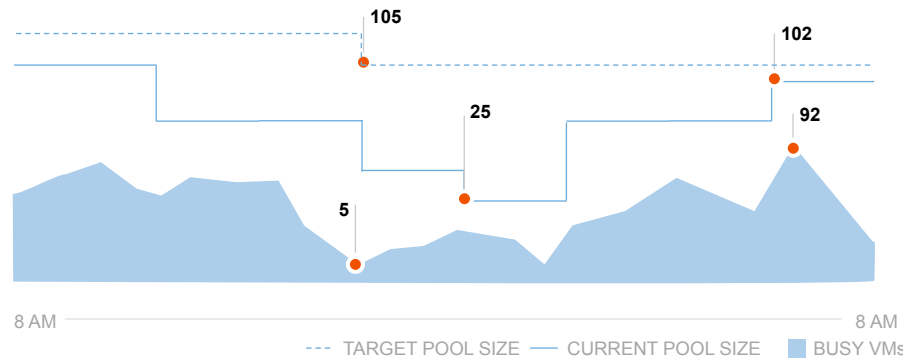
Choose Metric: **CPU**



■ RUNNING
 ■ IDLE
 REBOOTING/ REIMAGING
 UNUSABLE

RUNNING TASKS OVER TIME

1d | 1wk | 1m | 3m | 6m | YTD | 1yr | All



RELATED

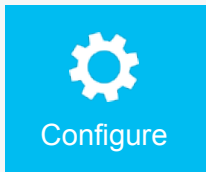
RELATED

8 Jobs

84 VMs

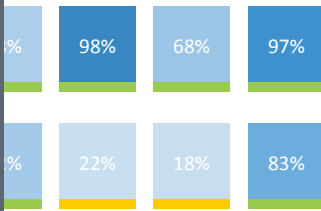


All Jobs

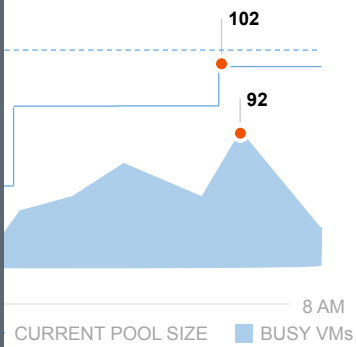


NAME	START TIME	END TIME	STATE	PROGRESS
WorkItem1/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem2/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 60%;"></div>
WorkItem3/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...003	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 20%;"></div>
WorkItem4/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem4/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem5/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>

Choose Metric: CPU



1d | 1wk | 1m | 3m | 6m | YTD | 1yr | All



Home



Notifications



Teams



Journeys



Help



Billing





Home



Notifications



Teams



Journeys



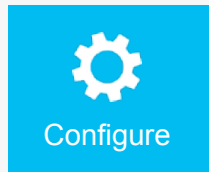
Help



Billing

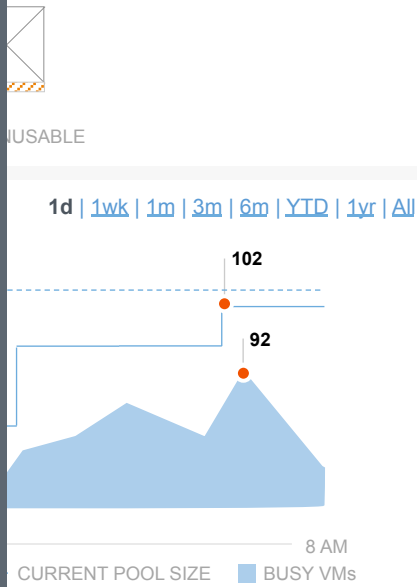
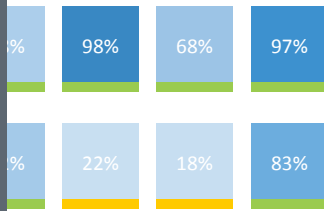


All Jobs



NAME	START TIME	END TIME	STATE	PROGRESS
WorkItem1/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem2/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 60%;"></div>
WorkItem3/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...003	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 20%;"></div>
WorkItem4/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem4/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem5/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>

Choose Metric: CPU



Filters

Filter total job results

TIME PERIOD

24 Hours

USERS

START TIME

END TIME

STATE

RUNNING COMPLETED

PROGRESS

8 Jobs Total



Home



Notifications



Teams



Journeys



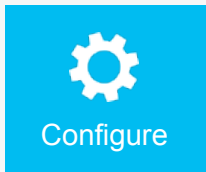
Help



Billing



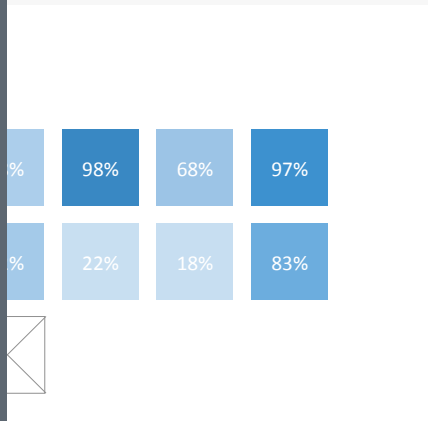
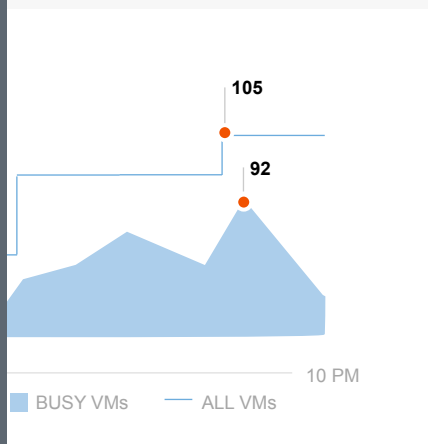
All Jobs



DISTRIBUTION

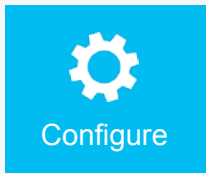


NAME	START TIME	END TIME	STATE	PROGRESS
WorkItem1/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 50%; background-color: #0070C0;"></div>
WorkItem2/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 25%; background-color: #0070C0;"></div>
WorkItem3/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%; background-color: #70AD47;"></div>
WorkItem3/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%; background-color: #FFC000;"></div>
WorkItem3/job...003	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 25%; background-color: #0070C0;"></div>
WorkItem4/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%; background-color: #70AD47;"></div>
WorkItem4/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 50%; background-color: #0070C0;"></div>
WorkItem5/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%; background-color: #70AD47;"></div>





All Jobs



Filter by:

STATE

USERS

24H

8

TOTAL

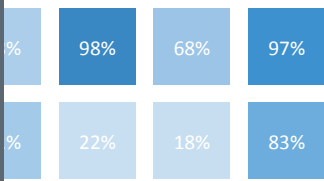
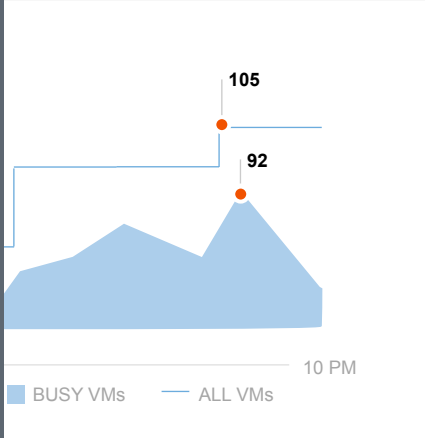
6

RUNNING

2

COMPLETED

NAME	START TIME	END TIME	STATE	PROGRESS
WorkItem1/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem2/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 60%;"></div>
WorkItem3/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem3/job...003	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 20%;"></div>
WorkItem4/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>
WorkItem4/job...002	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem5/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>





All Jobs



Filter by: STATE

USERS

24H

3
USER A

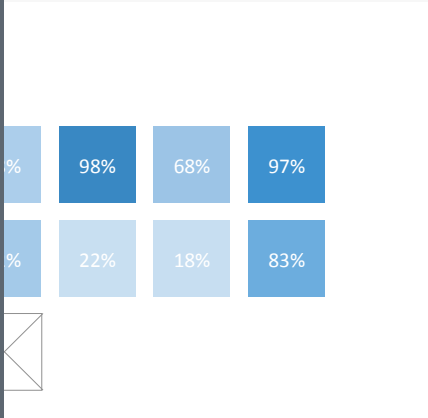
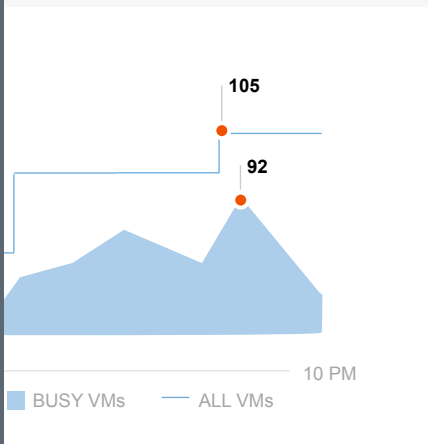
1
USER B

1
USER C

1
USER D

...

NAME	START TIME	END TIME	STATE	PROGRESS
WorkItem1/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 80%;"></div>
WorkItem2/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Running	<div style="width: 40%;"></div>
WorkItem3/job...001	7/8/2012 1:15:52 PM	7/8/2012 1:15:52 PM	Completed	<div style="width: 100%;"></div>





Workitem2/job-0000000001



STATE	PROGRESS
7:52 PM Running	<div style="width: 80%;"></div>
7:52 PM Running	<div style="width: 60%;"></div>
7:52 PM Running	<div style="width: 20%;"></div>
7:52 PM Failed	<div style="width: 100%; background-color: red;"></div>
7:52 PM Running	<div style="width: 30%;"></div>
7:52 PM Running	<div style="width: 10%;"></div>
7:52 PM Running	<div style="width: 85%;"></div>
7:52 PM Completed	<div style="width: 100%; background-color: green;"></div>

DETAILS

68%

TOTAL TASKS: 1000
 FINISHED: 680
 CANCELED: 0
 FAILED: 0
 RUNNING: 36
 QUEUED: 282

STATUS: Running

CREATE TIME: 9/27/2013 2:41:07 PM

START TIME: 9/27/2013 2:41:07 PM

END TIME: In Progress

NAME	START TIME	STATE	COMMAND LINE
Task_123	7/8/2012 1:15:52 PM	Running	echo.exe
Task_124	7/8/2012 1:15:52 PM	Running	echo.exe
Task_125	7/8/2012 1:15:52 PM	Running	echo.exe
Task_126	7/8/2012 1:15:52 PM	Failed	echo.exe
Task_127	7/8/2012 1:15:52 PM	Running	echo.exe
Task_128	7/8/2012 1:15:52 PM	Running	echo.exe
Task_129	7/8/2012 1:15:52 PM	Running	echo.exe
Task_120	7/8/2012 1:15:52 PM	Finished	echo.exe

Pool_123 →

WorkItem2 →

STATUS: ACTIVE
NEXT JOB RUN: 9/27/2013 2PM





Task_120



DETAILS

STATUS Finished

COMMAND LINE echo.exe

START TIME 9/27/2013 2:40:22 PM

END TIME 9/27/2013 2:41:07 PM

EXIT CODE 0

STANDARD INPUT
INPUT LINE 1
...
INPUT LINE 4

STANDARD OUTPUT
OUTPUT LINE 1
...
OUTPUT LINE 4

STANDARD ERROR NO STANDARD ERROR

HISTORY

9/27/2013 2:40:22 PM Task Created

9/27/2013 2:41:01 PM Task assigned to TVM tvm-1317519783_1-20131023t215341z

9/27/2013 2:41:07 PM Task finished successfully

RELATED JOB

job-0000000001



RELATED TASK VM

tvm-1317519783_...



Home



Notifications



Teams



Journeys



Help



Billing



orkItem_123





tvm-1317519783_1-20131023t215341z



DETAILS

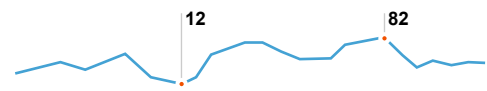
STATE Running

CONNECTIVITY OK

DIAGNOSTICS No failures

ERROR MESSAGE None

LOCATION Chicago



Pool_123



Task_123



TASK VM

-1317519783_... →

Actions: Get File at TVM level, Connect to machine
 List view properties: Name, State, IP Address, TVM Size
 Details include above + State Transition Time, Previous State, TVM Allocation Time, Total Tasks Run, TVM Error



Home



Notifications



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Journeys



Help

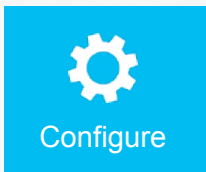


Billing





All Workitems



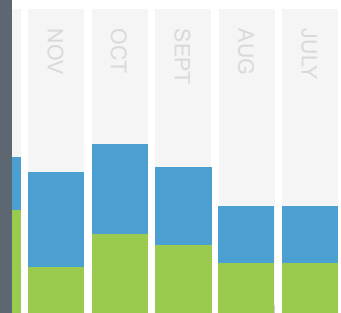
NAME	START TIME	STATE	PREVIOUS STATE
WorkItem1	7/8/2012 1:15:52 PM	Active	Active
WorkItem2	7/8/2012 1:15:52 PM	Active	Active
WorkItem3	7/8/2012 1:15:52 PM	Active	Active
WorkItem4	7/8/2012 1:15:52 PM	Completed	Active
WorkItem5	7/8/2012 1:15:52 PM	Active	Active

List view properties: Name, Create Time, State,

Details include above + State Transition Time, Previous State, Schedule description (start window + don't run until + don't run after + recurring interval), job specification (priority, job constraints (max wall clock time, max task retry count), job manager task (name, command line, list of resource files), task constraints (max wall clock time, retention time, max task retry count), kill on job completion), pool name or auto-pool specification (name prefix, life time option, keep alive, TVM size, Target # of TVMs, Enable Auto-scale)



Monthly Usage



NETWORK

83 GB Inbound **65** GB Outbound

5 ACTIVE WORKITEMS

836 RUNNING TASKS



Workitem1



STATE	PREVIOUS STATE
Active	Active
Active	Active
Active	Active
Completed	Active
Active	Active

DETAILS

NAME	Workitem1
CREATE TIME	9/27/2013 2:41:07 PM
STATE	Active
STATE TRANSITION TIME	9/27/2013 2:41:07 PM
PREVIOUS STATE	None
SCHEDULE DESCRIPTION	<Start Window>, <Don't Run Until>, <Don't Run After>, <Recurring Interval>
JOB MANAGER TASK	
NAME	<Name>
COMMAND LINE	<Command Line>
LIST OF RESOURCE FILES	<List Of Resource Files>

