

CycleCloud demo

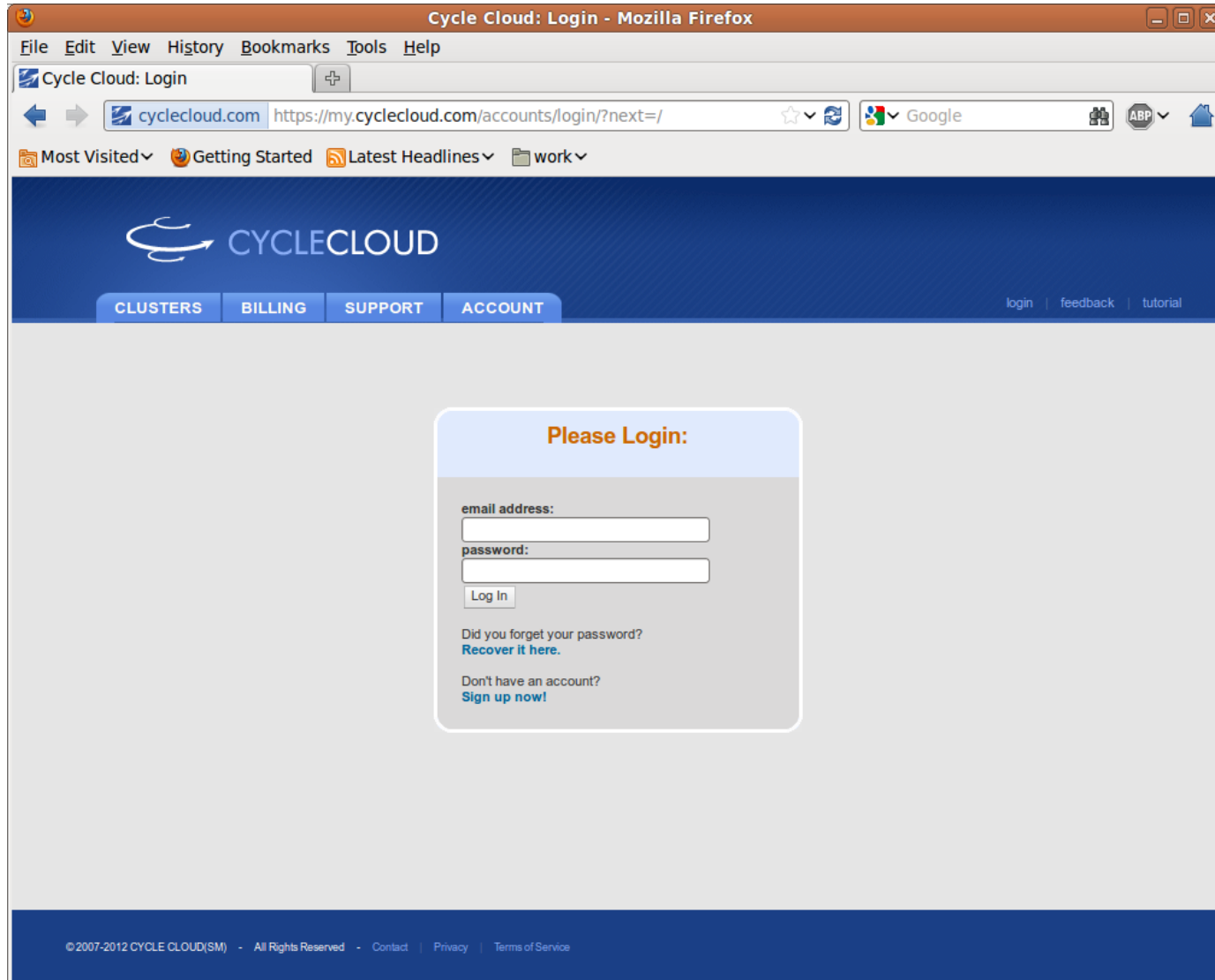
Tuesday afternoon, 2:00pm

Igor Sfiligoi <isfiligoi@ucsd.edu>

Leader of the OSG Glidein Factory Operations

University of California San Diego

CycleCloud Login



The screenshot shows a Mozilla Firefox browser window titled "Cycle Cloud: Login". The address bar displays "https://my.cyclecloud.com/accounts/login/?next=/". The page features a dark blue header with the "CYCLECLOUD" logo and navigation links: "CLUSTERS", "BILLING", "SUPPORT", and "ACCOUNT". On the right side of the header, there are links for "login", "feedback", and "tutorial". The main content area is light gray and contains a "Please Login:" section. This section includes input fields for "email address:" and "password:", a "Log In" button, and links for "Recover it here." and "Sign up now!". The footer is dark blue and contains copyright information: "© 2007-2012 CYCLE CLOUD(SM) - All Rights Reserved - Contact | Privacy | Terms of Service".


Cycle Cloud: Login - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Cycle Cloud: Login

cyclecloud.com https://my.cyclecloud.com/accounts/login/?next=/

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CLUSTERS BILLING SUPPORT ACCOUNT login feedback tutorial

Please Login:

email address:

password:

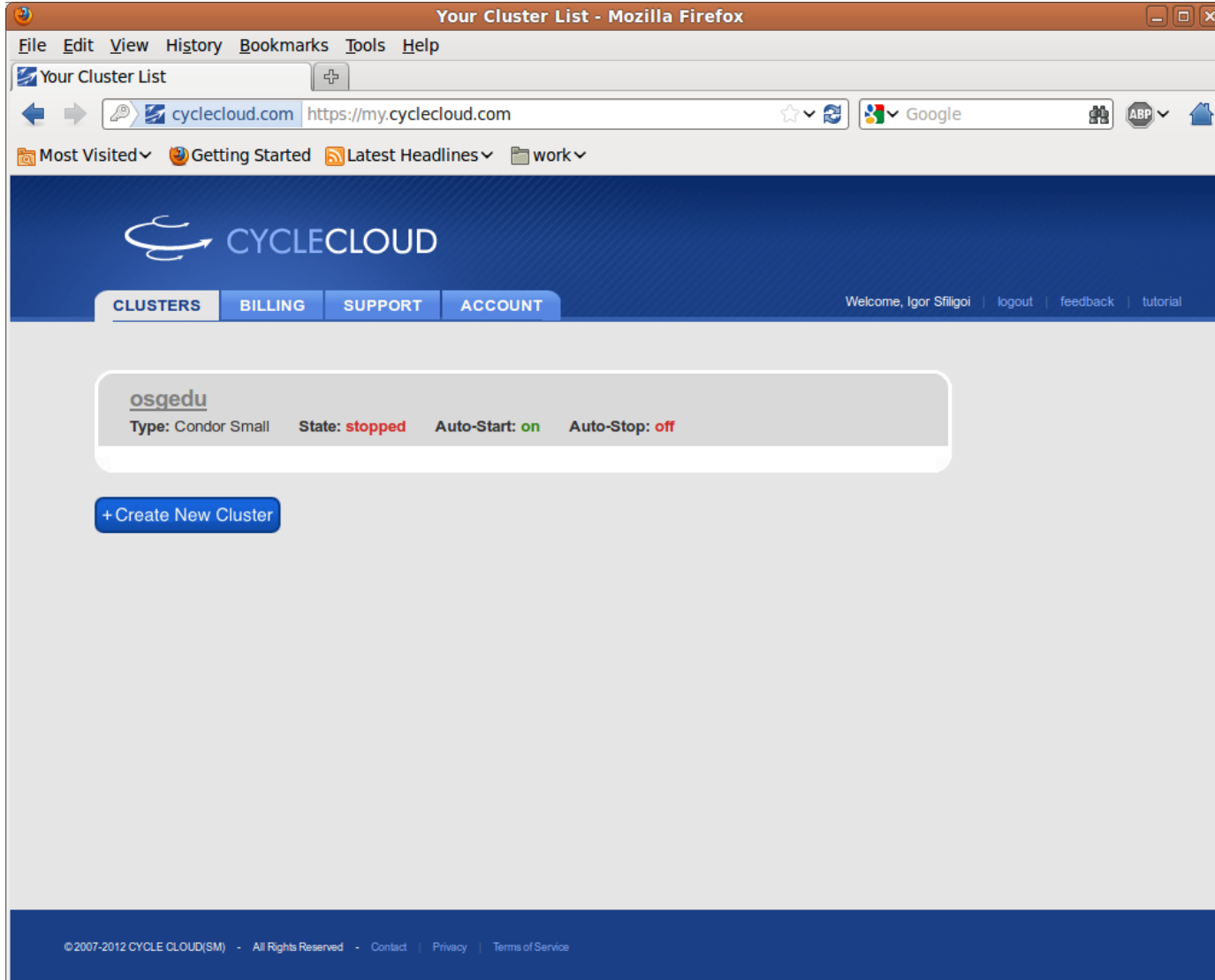
Log In

Did you forget your password?
[Recover it here.](#)

Don't have an account?
[Sign up now!](#)

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Cloud Cluster Control Center



The screenshot shows a Mozilla Firefox browser window titled "Your Cluster List - Mozilla Firefox". The address bar displays "https://my.cyclecloud.com". The page features the CycleCloud logo and a navigation menu with tabs for CLUSTERS, BILLING, SUPPORT, and ACCOUNT. The CLUSTERS tab is active, showing a list of clusters. One cluster, named "osgedu", is listed with the following details: Type: Condor Small, State: stopped, Auto-Start: on, and Auto-Stop: off. Below the cluster list is a button labeled "+Create New Cluster". The footer of the page contains copyright information: "© 2007-2012 CYCLE CLOUD(SM) - All Rights Reserved - Contact | Privacy | Terms of Service".


Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | [logout](#) | [feedback](#) | [tutorial](#)

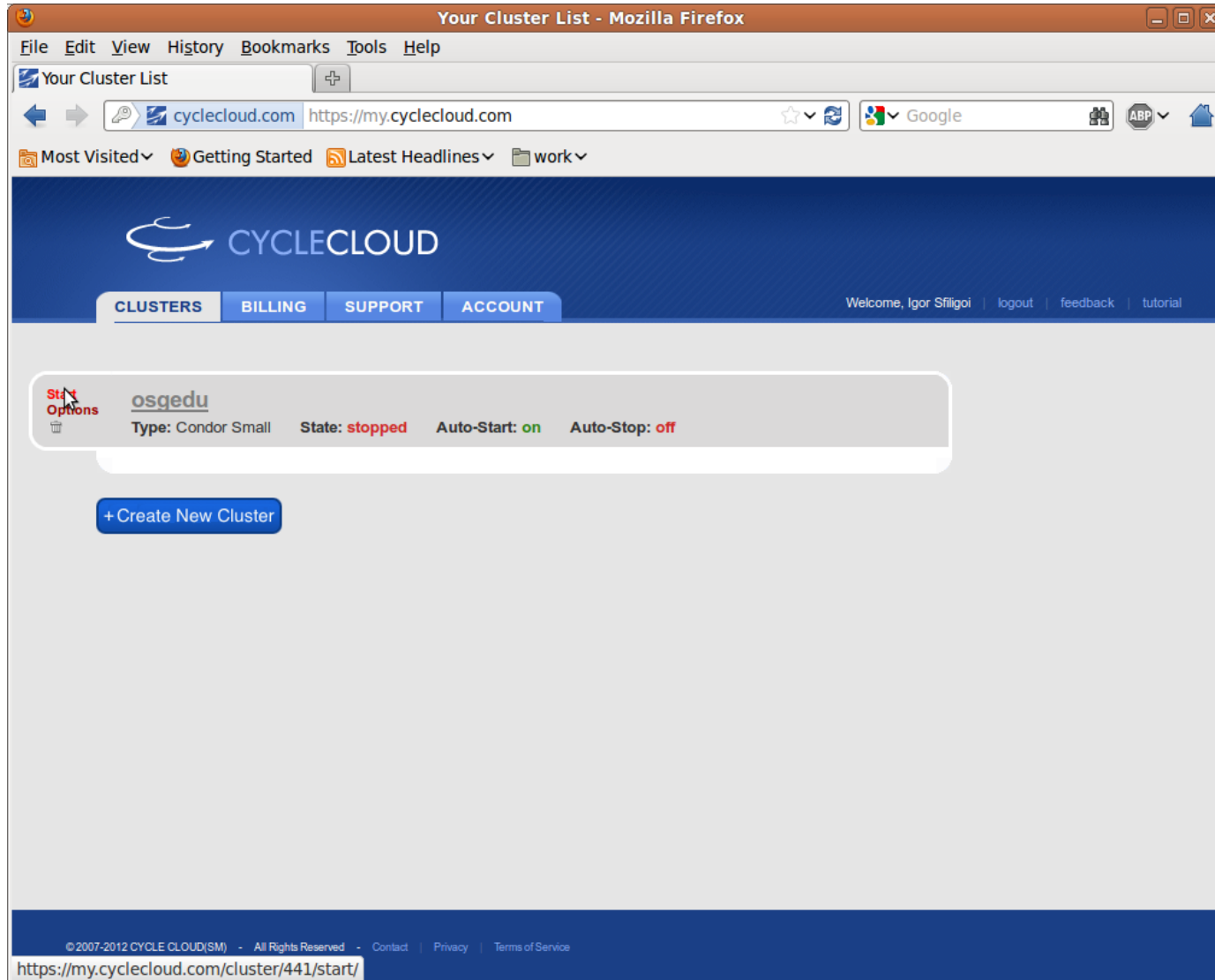
osgedu

Type: Condor Small State: **stopped** Auto-Start: **on** Auto-Stop: **off**

+Create New Cluster

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Starting the cluster




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List


cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | [logout](#) | [feedback](#) | [tutorial](#)

[Status](#) [Options](#) 

osgedu

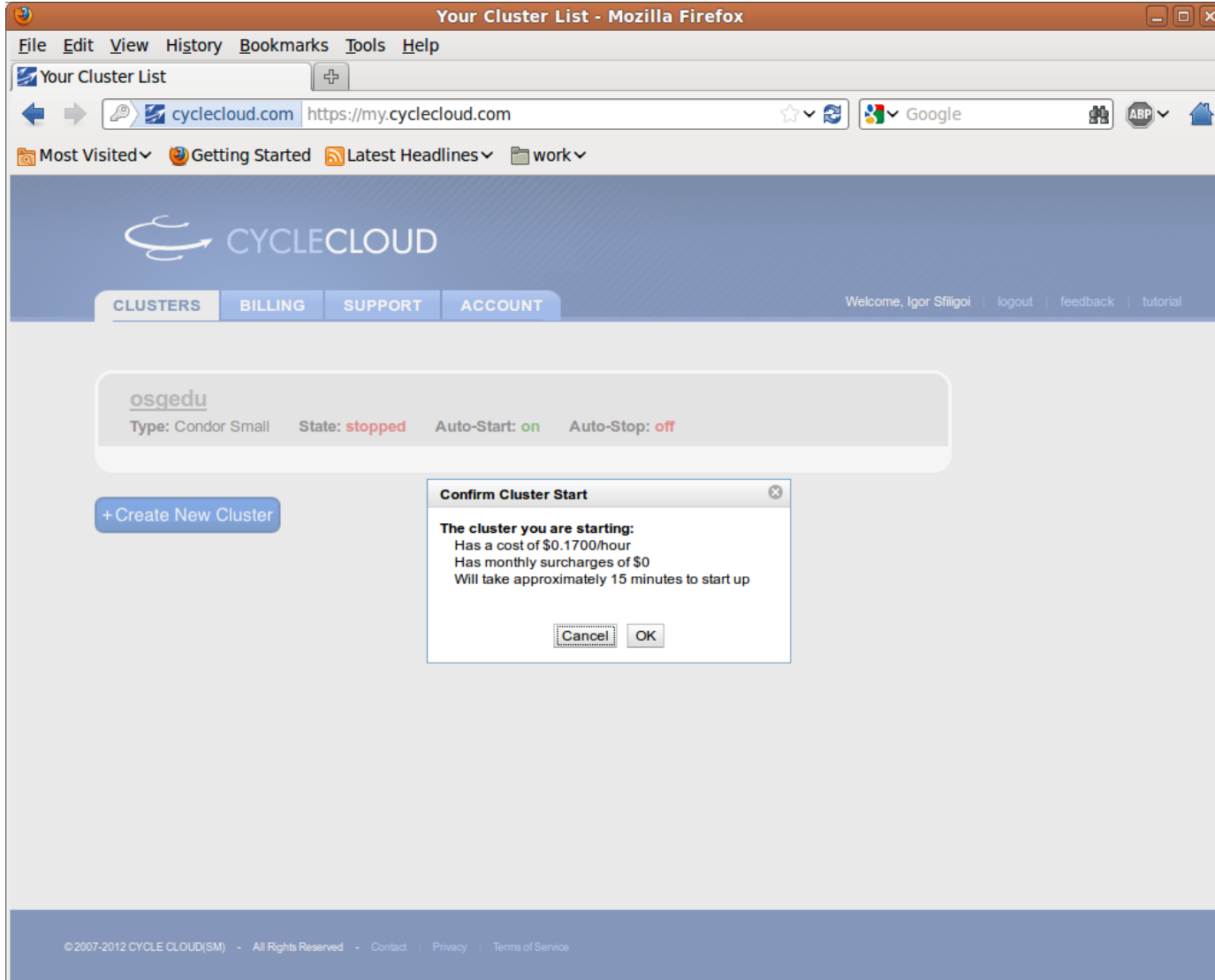
Type: Condor Small State: **stopped** Auto-Start: **on** Auto-Stop: **off**

[+Create New Cluster](#)

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https://my.cyclecloud.com/cluster/441/start/

Cost information




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | logout | feedback | tutorial

osgedu

Type: Condor Small State: **stopped** Auto-Start: **on** Auto-Stop: **off**

+Create New Cluster

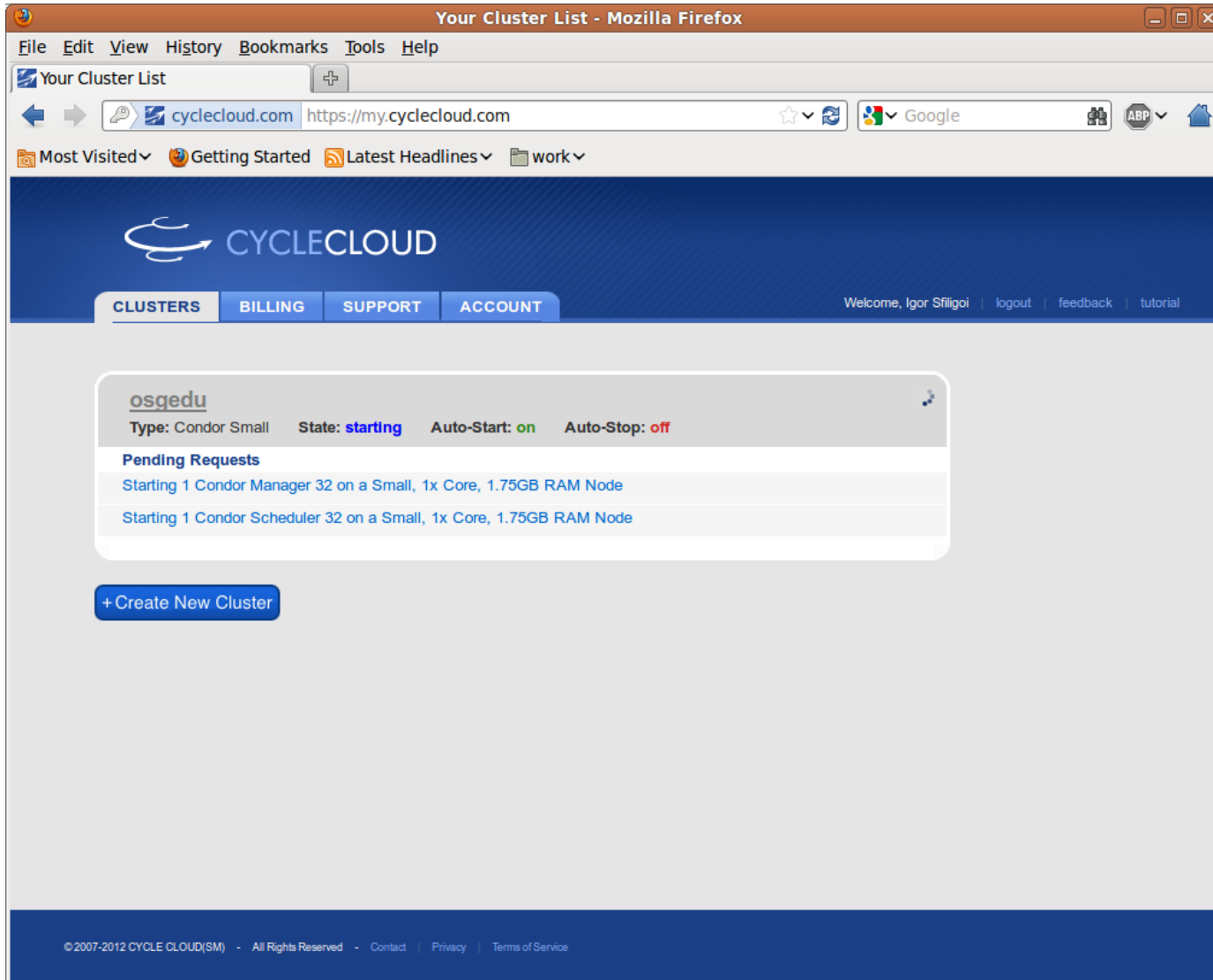
Confirm Cluster Start

The cluster you are starting:
Has a cost of \$0.1700/hour
Has monthly surcharges of \$0
Will take approximately 15 minutes to start up

Cancel OK

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Waiting for login node to start




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

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osgedu

Type: Condor Small State: **starting** Auto-Start: **on** Auto-Stop: **off**

Pending Requests

- Starting 1 Condor Manager 32 on a Small, 1x Core, 1.75GB RAM Node
- Starting 1 Condor Scheduler 32 on a Small, 1x Core, 1.75GB RAM Node

+Create New Cluster

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Billing information


UCSD's Billing Info - Mozilla Firefox

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UCSD's Billing Info

cyclecloud.com https://my.cyclecloud.com/statement/2012/06/

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | [logout](#) | [feedback](#) | [tutorial](#)

Summary of Jun 2012 Activity

Billing Cycle for this Report: Jun 01, 2012 - Jun 30, 2012 | [<< Last Statement](#) | [Next Statement >>](#)

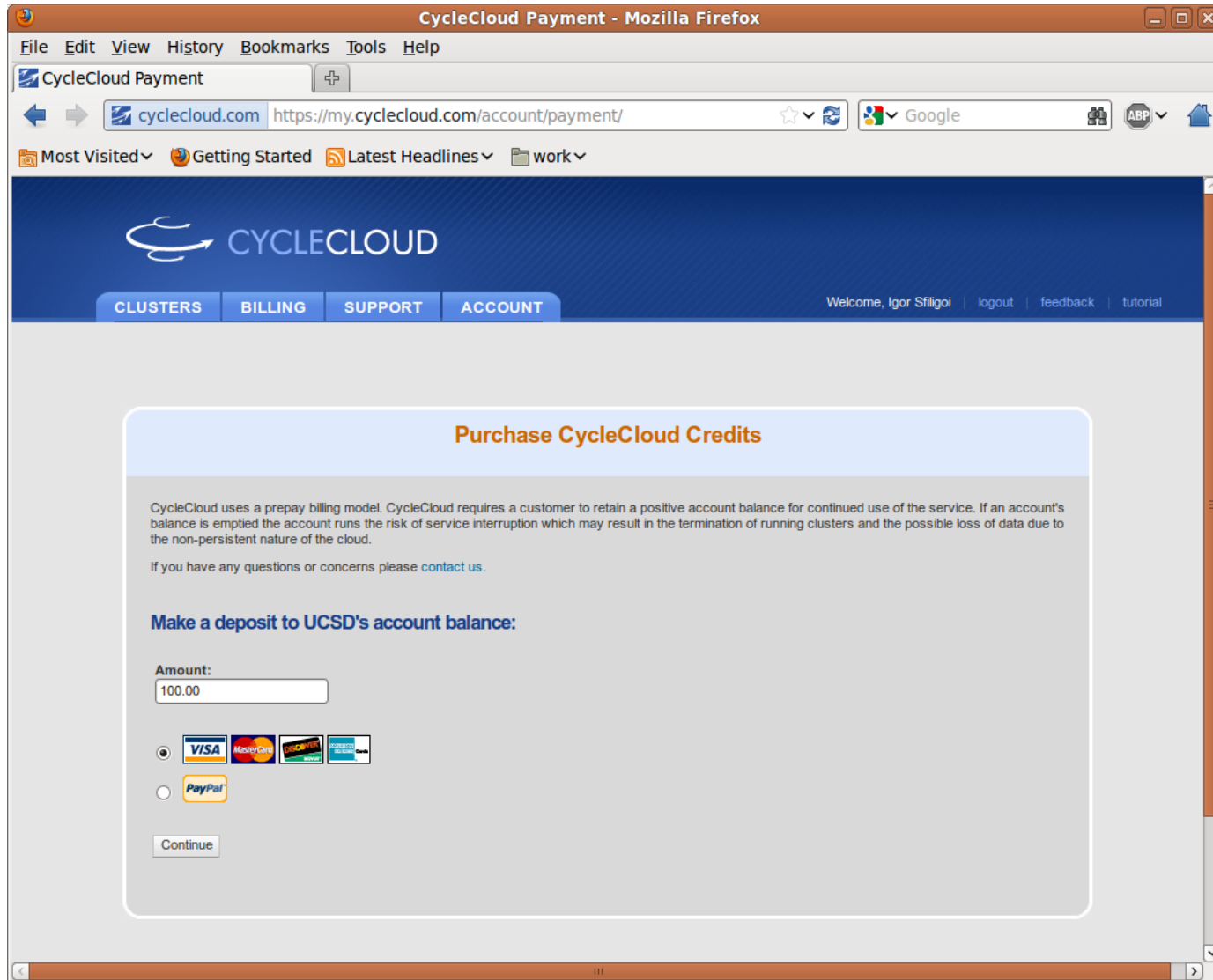
Your statement is determined based upon pricing. Please [contact us](#) with any questions.

Previous Balance:					\$21.47
Cluster Charges:	Item:	Rate:	Core Usage:	Instance Usage:	Totals:
osgedu [US East - Northern Virginia]	Condor Small	\$0.17/cluster-hour	---	1 Hrs	\$0.17
	Cluster Total >>		0 Hrs	0 Hrs	\$0.17
Account Charges:		Rate:	Usage:	Totals:	
Usage Total:					\$0.17
Account Balance:					\$21.30

[View Transactions](#) [Add Credit](#)

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Adding credit is easy



The screenshot shows a Mozilla Firefox browser window titled "CycleCloud Payment - Mozilla Firefox". The address bar displays "https://my.cyclecloud.com/account/payment/". The page header features the CycleCloud logo and navigation links: CLUSTERS, BILLING, SUPPORT, and ACCOUNT. A welcome message "Welcome, Igor Sfiligoi" is visible. The main content area is titled "Purchase CycleCloud Credits" and explains the prepaid billing model. It includes a form to "Make a deposit to UCSD's account balance:" with an "Amount:" field set to "100.00". Below the field are radio buttons for payment methods: VISA, MasterCard, American Express, Discover, and PayPal. A "Continue" button is at the bottom of the form.


CycleCloud Payment - Mozilla Firefox

File Edit View History Bookmarks Tools Help

CycleCloud Payment

cyclecloud.com https://my.cyclecloud.com/account/payment/

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | [logout](#) | [feedback](#) | [tutorial](#)





Purchase CycleCloud Credits


CycleCloud uses a prepay billing model. CycleCloud requires a customer to retain a positive account balance for continued use of the service. If an account's balance is emptied the account runs the risk of service interruption which may result in the termination of running clusters and the possible loss of data due to the non-persistent nature of the cloud.

If you have any questions or concerns please [contact us](#).

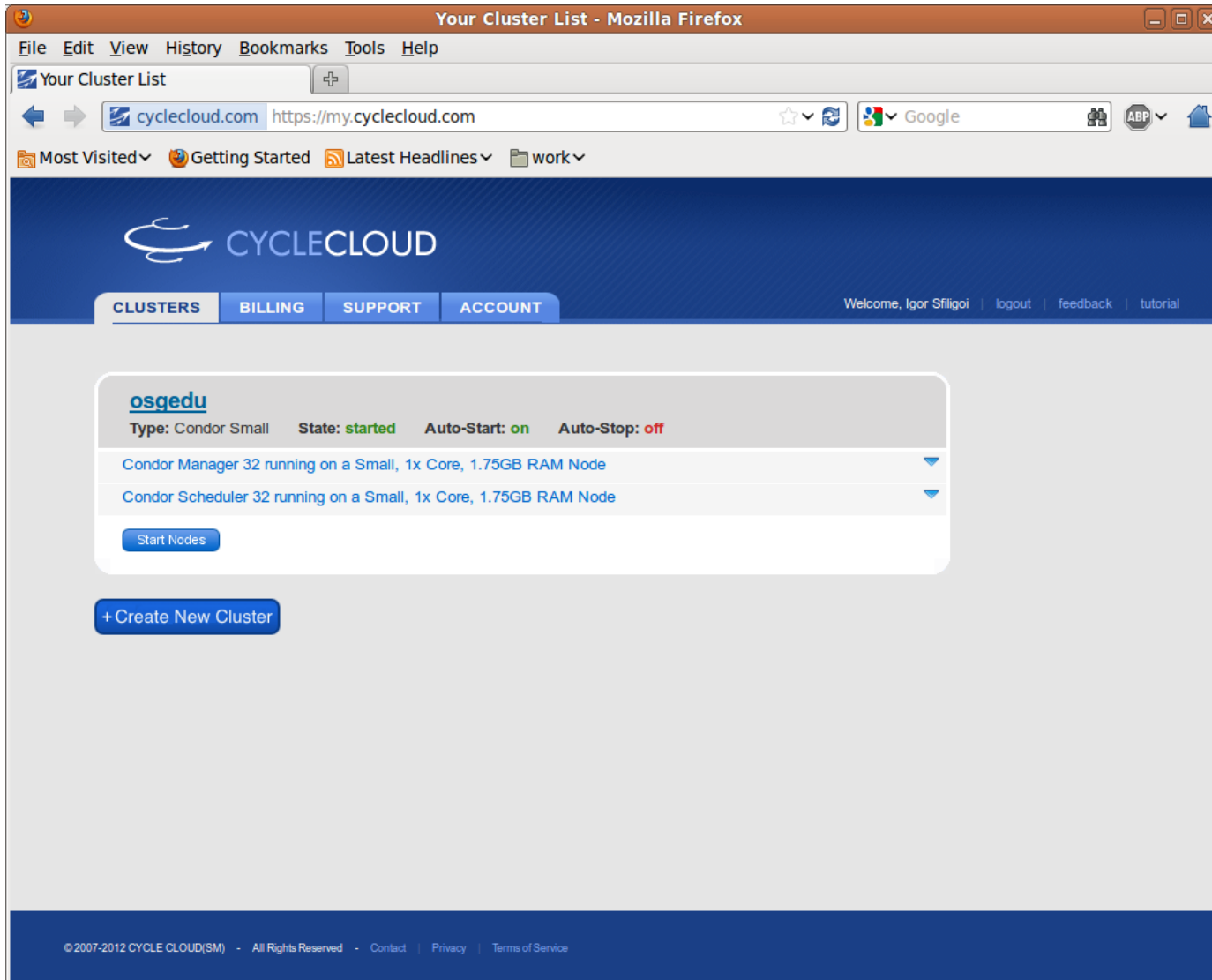
Make a deposit to UCSD's account balance:

Amount:
100.00

☒    

☐ 

The submit node is ready




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | [logout](#) | [feedback](#) | [tutorial](#)

osgedu

Type: Condor Small State: **started** Auto-Start: **on** Auto-Stop: **off**

Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node

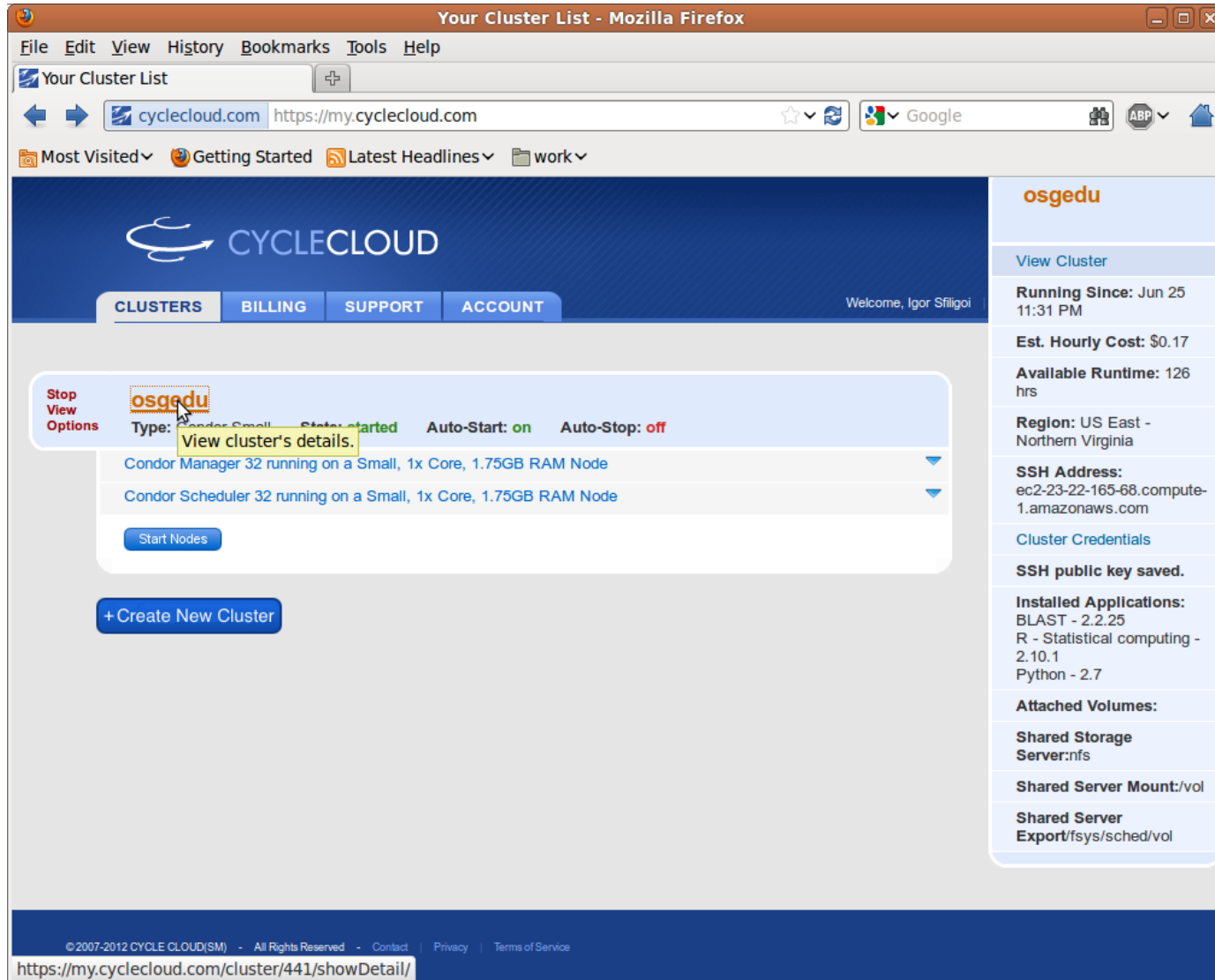
Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node

Start Nodes

+Create New Cluster

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Getting the details

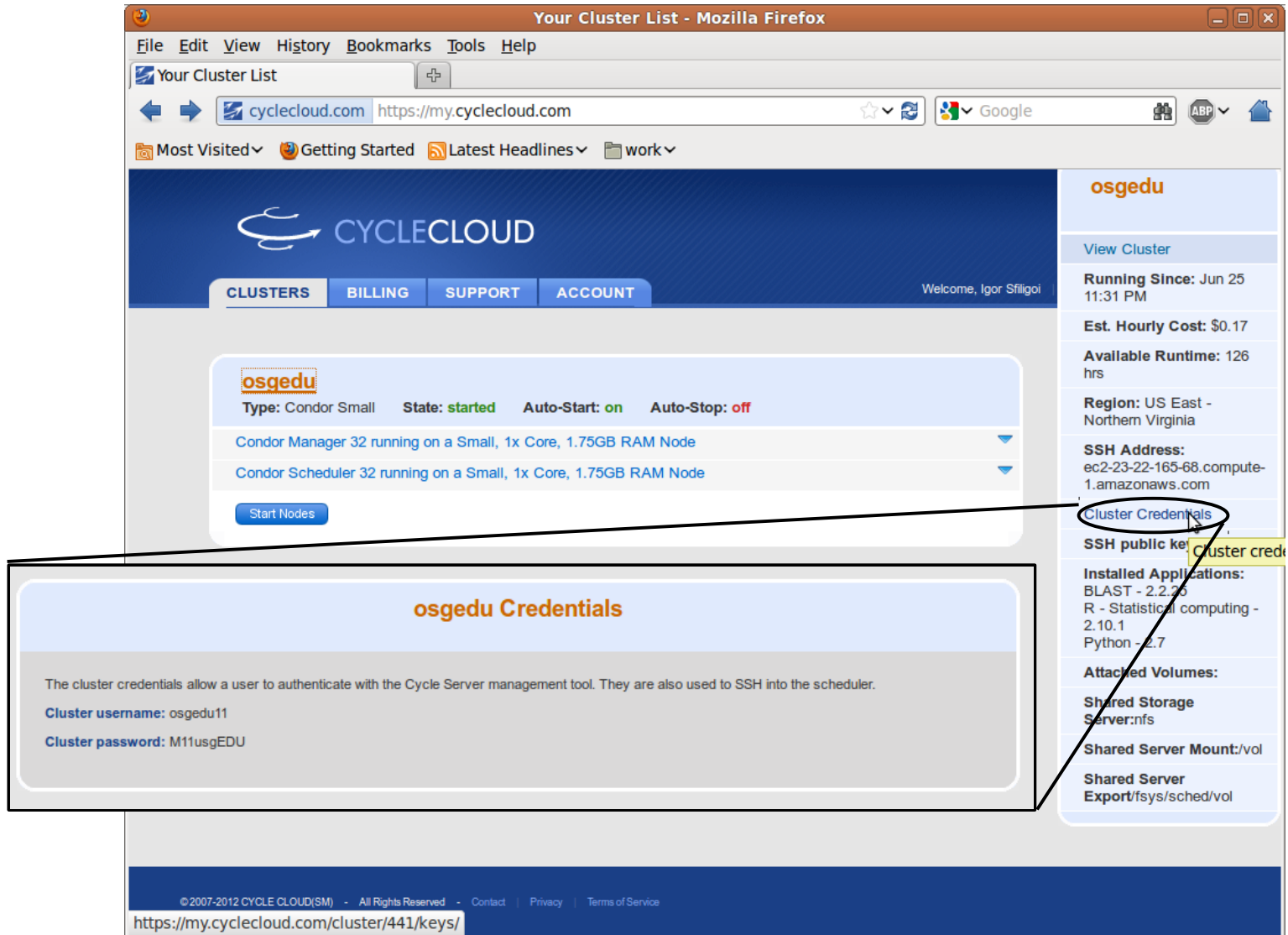


The screenshot shows a Mozilla Firefox browser window titled "Your Cluster List - Mozilla Firefox". The address bar shows "https://my.cyclecloud.com". The page displays the CycleCloud logo and navigation tabs: CLUSTERS, BILLING, SUPPORT, and ACCOUNT. A welcome message "Welcome, Igor Sfiligoi" is visible. The main content area shows a cluster named "osgedu" with a status of "started". A tooltip "View cluster's details." is shown over the cluster name. Below the cluster name, it lists the components: "Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node" and "Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node". A "Start Nodes" button is present. A "+Create New Cluster" button is also visible. On the right side, a sidebar provides detailed information about the cluster:

- View Cluster**
- Running Since:** Jun 25 11:31 PM
- Est. Hourly Cost:** \$0.17
- Available Runtime:** 126 hrs
- Region:** US East - Northern Virginia
- SSH Address:** ec2-23-22-165-68.compute-1.amazonaws.com
- Cluster Credentials**
- SSH public key saved.**
- Installed Applications:**
 - BLAST - 2.2.25
 - R - Statistical computing - 2.10.1
 - Python - 2.7
- Attached Volumes:**
- Shared Storage Server:** nfs
- Shared Server Mount:** /vol
- Shared Server Export:** /fsys/sched/vol

The footer shows copyright information: "© 2007-2012 CYCLE CLOUD(SM) - All Rights Reserved - Contact | Privacy | Terms of Service". The URL in the address bar is "https://my.cyclecloud.com/cluster/441/showDetail/".

The ssh credentials



The screenshot shows the CycleCloud web interface in a Mozilla Firefox browser window. The main content area displays details for a cluster named 'osgedu'. A callout box, indicated by a line from the 'Cluster Credentials' link in the sidebar, provides the following information:

osgedu Credentials

The cluster credentials allow a user to authenticate with the Cycle Server management tool. They are also used to SSH into the scheduler.

Cluster username: osgedu11

Cluster password: M11usgEDU

The sidebar on the right contains the following information for the 'osgedu' cluster:

- View Cluster**
- Running Since:** Jun 25 11:31 PM
- Est. Hourly Cost:** \$0.17
- Available Runtime:** 126 hrs
- Region:** US East - Northern Virginia
- SSH Address:** ec2-23-22-165-68.compute-1.amazonaws.com
- Cluster Credentials** (circled and linked to the callout box)
- SSH public key:** (partially visible)
- Installed Applications:** BLAST - 2.2.26, R - Statistical computing - 2.10.1, Python - 2.7
- Attached Volumes:**
- Shared Storage Server:** nfs
- Shared Server Mount:** /vol
- Shared Server Export:** /fsys/sched/vol

The footer of the page includes the copyright notice: © 2007-2012 CYCLE CLOUD(SM) - All Rights Reserved, and links to Contact, Privacy, and Terms of Service. The URL in the address bar is https://my.cyclecloud.com/cluster/441/keys/.



```

osgedu11@ip-10-127-162-116:~
File Edit View Terminal Help
sfiligoi@sfiligoi-e6510:~$ ssh osgedu11@ec2-23-22-165-68.compute-1.amazonaws.com
The authenticity of host 'ec2-23-22-165-68.compute-1.amazonaws.com (23.22.165.68)' can't be established.
RSA key fingerprint is a9:6a:42:9f:0f:1e:d3:af:fc:83:7f:92:0f:db:1e:81.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added 'ec2-23-22-165-68.compute-1.amazonaws.com,23.22.165.68' (RSA) to the list of known hosts.
osgedu11@ec2-23-22-165-68.compute-1.amazonaws.com's password:

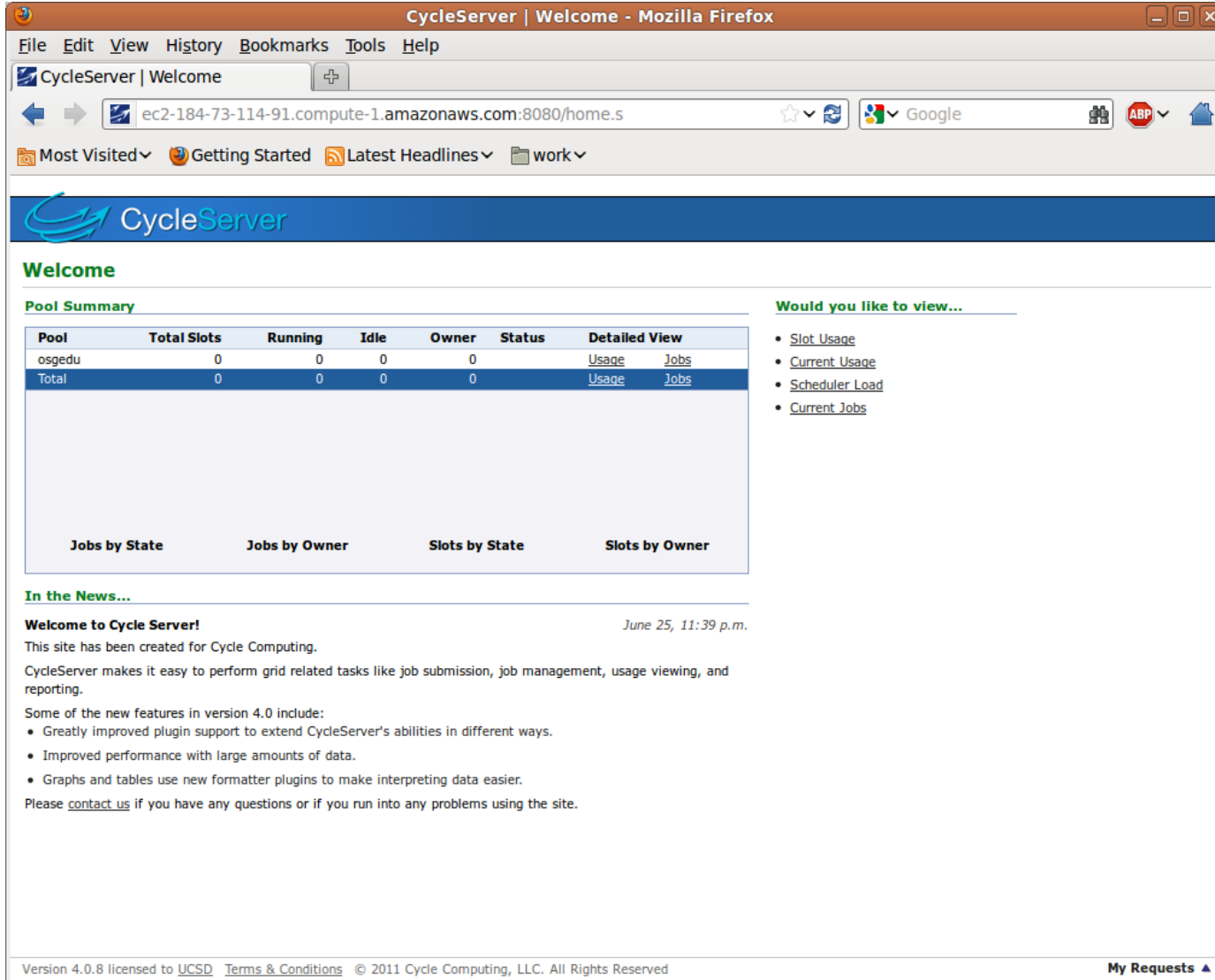
  _ _ | _ |, _/_   _ |, _ ) _ _ _ |
  |
(version 2.14.0)

Version: 2.14.0
Role: Scheduler, Condor Scheduler Role
Cluster created for: UCSD
Cluster: osgedu

[osgedu11@ip-10-127-162-116 ~]$

```

We also get a CycleServer



The screenshot shows the CycleServer web interface in a Mozilla Firefox browser window. The browser's address bar shows the URL `ec2-184-73-114-91.compute-1.amazonaws.com:8080/home.s`. The page has a blue header with the CycleServer logo and the word "Welcome". Below the header, there is a "Pool Summary" section with a table showing the status of the pool. To the right of the table, there is a section titled "Would you like to view..." with links to "Slot Usage", "Current Usage", "Scheduler Load", and "Current Jobs". Below the table, there are four buttons: "Jobs by State", "Jobs by Owner", "Slots by State", and "Slots by Owner". At the bottom of the page, there is a "Welcome to Cycle Server!" message with a timestamp of "June 25, 11:39 p.m." and a list of new features in version 4.0. The footer of the page shows the version number "4.0.8" and the license information "licensed to UCSD".

Pool Summary

Pool	Total Slots	Running	Idle	Owner	Status	Detailed View
osgedu	0	0	0	0		Usage Jobs
Total	0	0	0	0		Usage Jobs

Would you like to view...

- [Slot Usage](#)
- [Current Usage](#)
- [Scheduler Load](#)
- [Current Jobs](#)

Jobs by State **Jobs by Owner** **Slots by State** **Slots by Owner**

In the News...

Welcome to Cycle Server! June 25, 11:39 p.m.

This site has been created for Cycle Computing.

CycleServer makes it easy to perform grid related tasks like job submission, job management, usage viewing, and reporting.

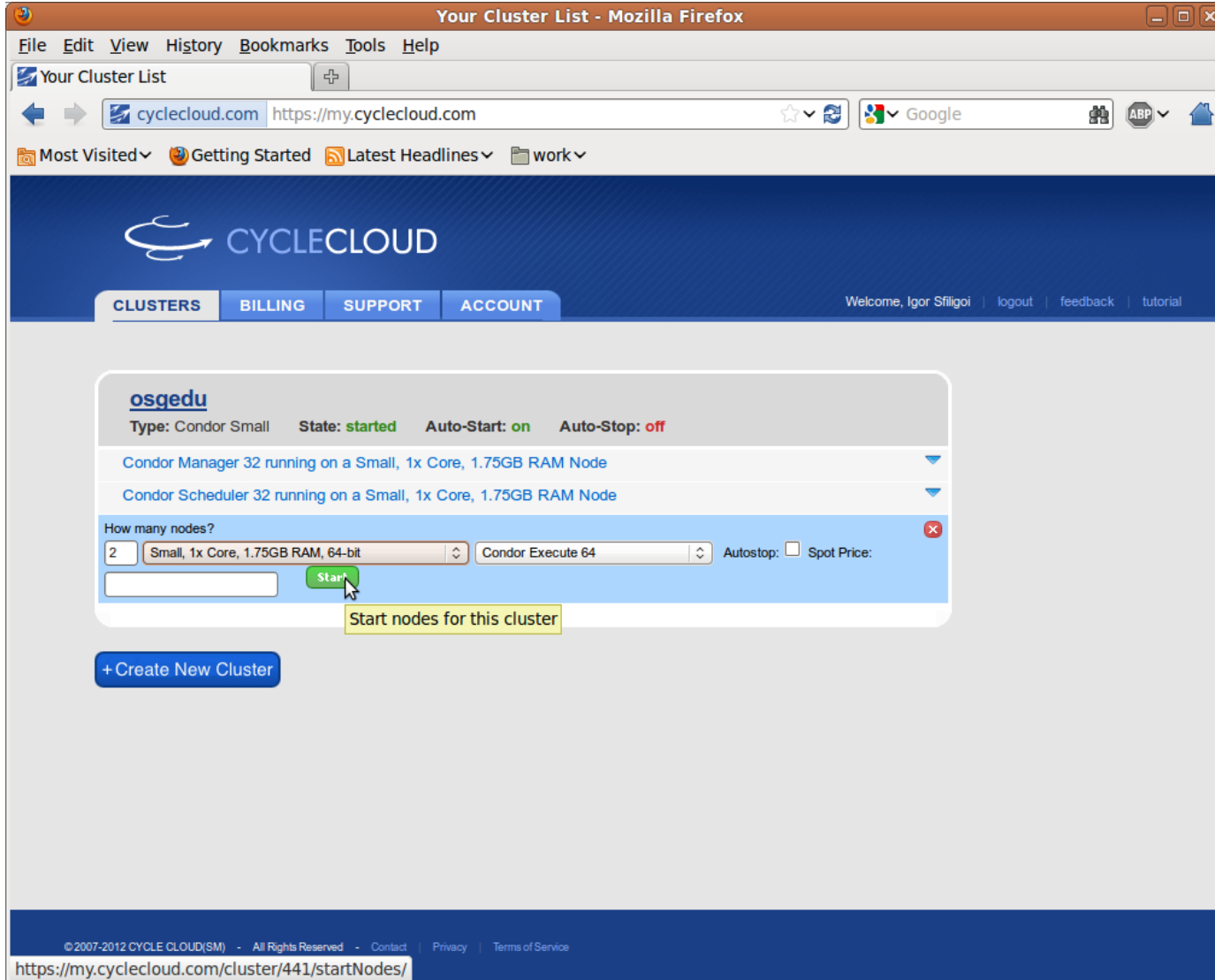
Some of the new features in version 4.0 include:

- Greatly improved plugin support to extend CycleServer's abilities in different ways.
- Improved performance with large amounts of data.
- Graphs and tables use new formatter plugins to make interpreting data easier.

Please [contact us](#) if you have any questions or if you run into any problems using the site.

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Let's start some compute nodes




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | logout | feedback | tutorial

osgedu

Type: Condor Small State: **started** Auto-Start: **on** Auto-Stop: **off**

Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node

Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node

How many nodes?

2 Small, 1x Core, 1.75GB RAM, 64-bit Condor Execute 64 Autostop: ☐ Spot Price: ☐

Start

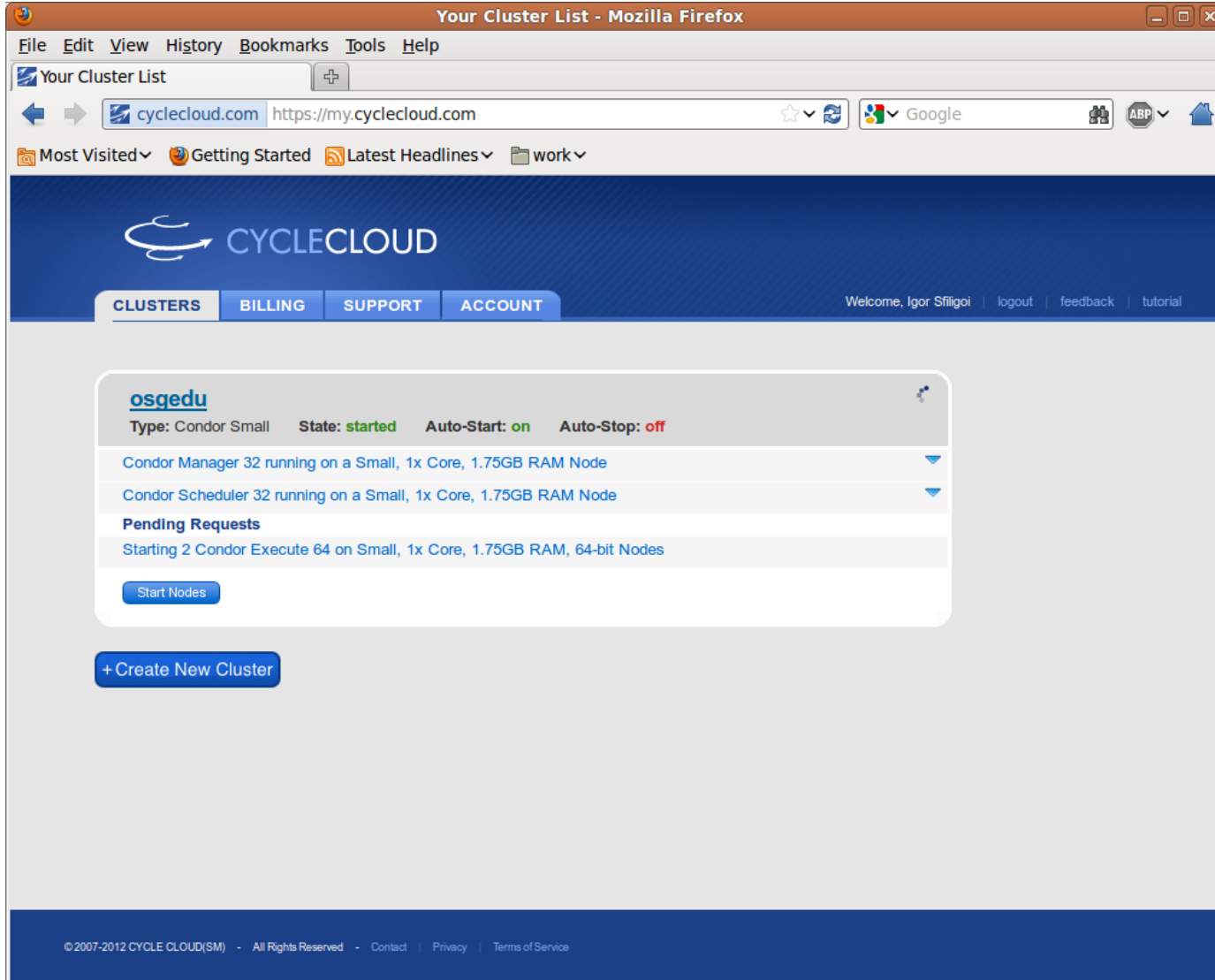
Start nodes for this cluster

+Create New Cluster

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https://my.cyclecloud.com/cluster/441/startNodes/

And wait patiently




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | logout | feedback | tutorial

osgedu

Type: Condor Small State: **started** Auto-Start: **on** Auto-Stop: **off**

Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node

Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node

Pending Requests

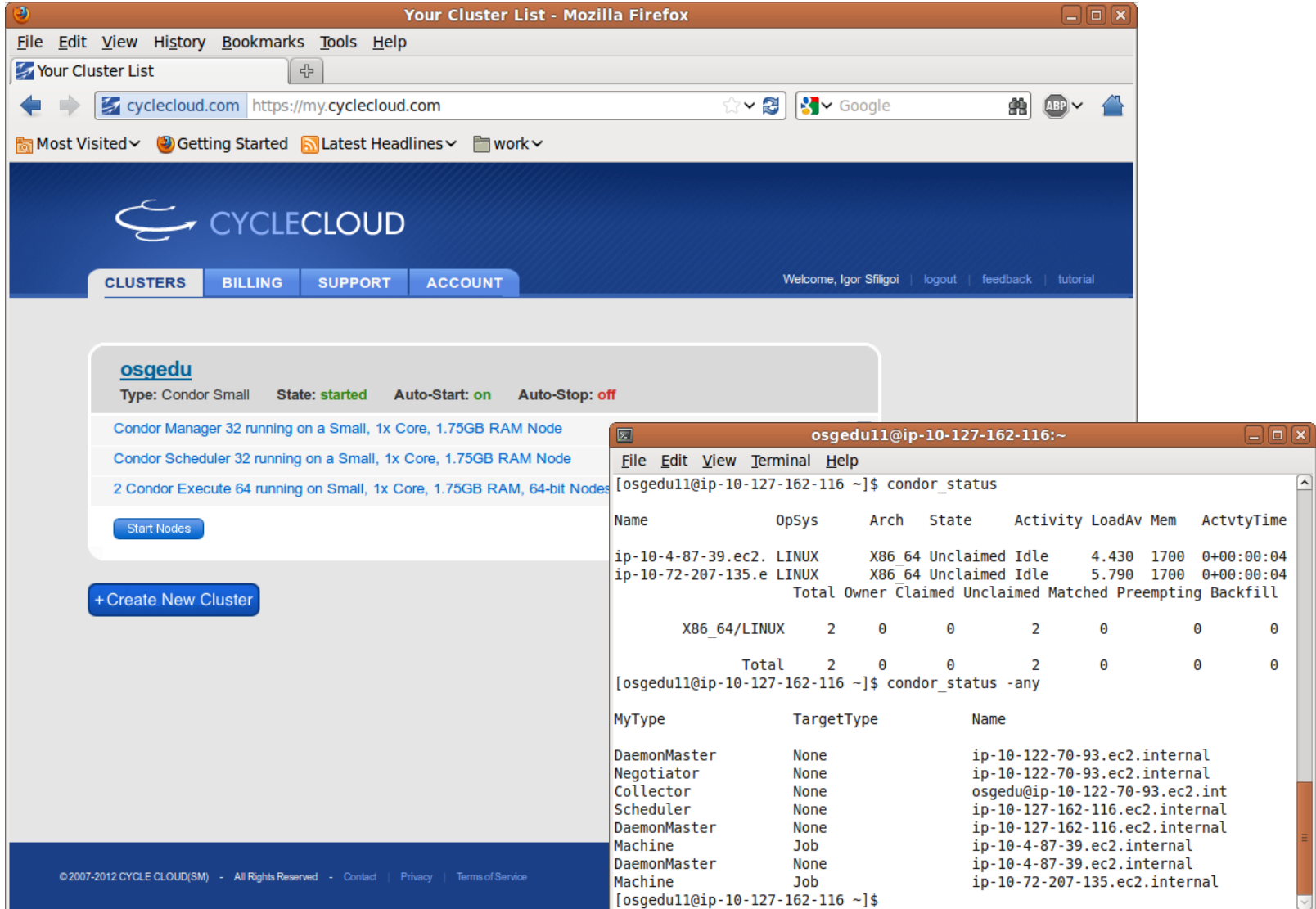
Starting 2 Condor Execute 64 on Small, 1x Core, 1.75GB RAM, 64-bit Nodes

Start Nodes

+Create New Cluster

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Here is our Condor pool



The screenshot shows the CycleCloud web interface in a Mozilla Firefox browser window. The browser address bar shows `https://my.cyclecloud.com`. The page title is "Your Cluster List - Mozilla Firefox". The CycleCloud logo is visible, along with navigation tabs for CLUSTERS, BILLING, SUPPORT, and ACCOUNT. The user is logged in as "Igor Sfiligoi".

The main content area displays a cluster named "osgedu". The cluster details are as follows:

- Type: Condor Small
- State: **started**
- Auto-Start: **on**
- Auto-Stop: **off**

The cluster is running on a Small, 1x Core, 1.75GB RAM Node. The Condor Manager and Scheduler are running on a Small, 1x Core, 1.75GB RAM Node. There are 2 Condor Execute 64 running on Small, 1x Core, 1.75GB RAM, 64-bit Nodes.

A "Start Nodes" button is visible, along with a "+ Create New Cluster" button.

Below the cluster details, a terminal window is open, showing the output of the `condor_status` command. The terminal output is as follows:

```
osgedu1@ip-10-127-162-116:~$ condor_status
```

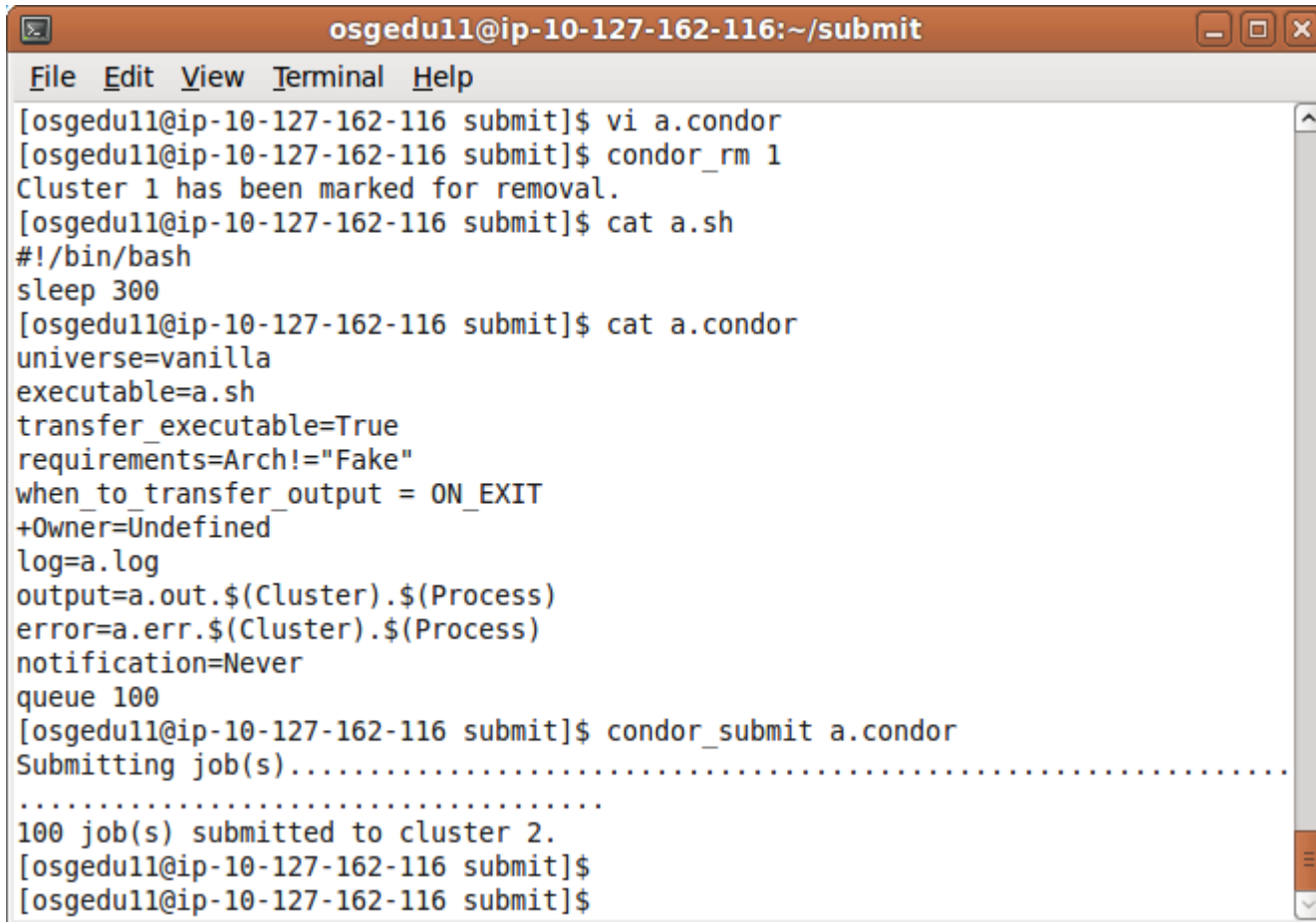
Name	OpSys	Arch	State	Activity	LoadAv	Mem	ActvtyTime
ip-10-4-87-39.ec2.	LINUX	X86_64	Unclaimed	Idle	4.430	1700	0+00:00:04
ip-10-72-207-135.e	LINUX	X86_64	Unclaimed	Idle	5.790	1700	0+00:00:04
Total Owner Claimed Unclaimed Matched Preempting Backfill							
X86_64/LINUX	2	0	0	2	0	0	0
Total	2	0	0	2	0	0	0

```
osgedu1@ip-10-127-162-116 ~]$ condor_status -any
```

MyType	TargetType	Name
DaemonMaster	None	ip-10-122-70-93.ec2.internal
Negotiator	None	ip-10-122-70-93.ec2.internal
Collector	None	osgedu@ip-10-122-70-93.ec2.int
Scheduler	None	ip-10-127-162-116.ec2.internal
DaemonMaster	None	ip-10-127-162-116.ec2.internal
Machine	Job	ip-10-4-87-39.ec2.internal
DaemonMaster	None	ip-10-4-87-39.ec2.internal
Machine	Job	ip-10-72-207-135.ec2.internal

The terminal window also shows the footer of the CycleCloud website: "© 2007-2012 CYCLE CLOUD(SM) - All Rights Reserved - Contact | Privacy | Terms of Service".

Let's submit some jobs



```
osgedu11@ip-10-127-162-116:~/submit
File Edit View Terminal Help
[osgedu11@ip-10-127-162-116 submit]$ vi a.condor
[osgedu11@ip-10-127-162-116 submit]$ condor_rm 1
Cluster 1 has been marked for removal.
[osgedu11@ip-10-127-162-116 submit]$ cat a.sh
#!/bin/bash
sleep 300
[osgedu11@ip-10-127-162-116 submit]$ cat a.condor
universe=vanilla
executable=a.sh
transfer_executable=True
requirements=Arch!="Fake"
when_to_transfer_output = ON_EXIT
+Owner=Undefined
log=a.log
output=a.out.$(Cluster).$(Process)
error=a.err.$(Cluster).$(Process)
notification=Never
queue 100
[osgedu11@ip-10-127-162-116 submit]$ condor_submit a.condor
Submitting job(s).....
.....
100 job(s) submitted to cluster 2.
[osgedu11@ip-10-127-162-116 submit]$
[osgedu11@ip-10-127-162-116 submit]$
```

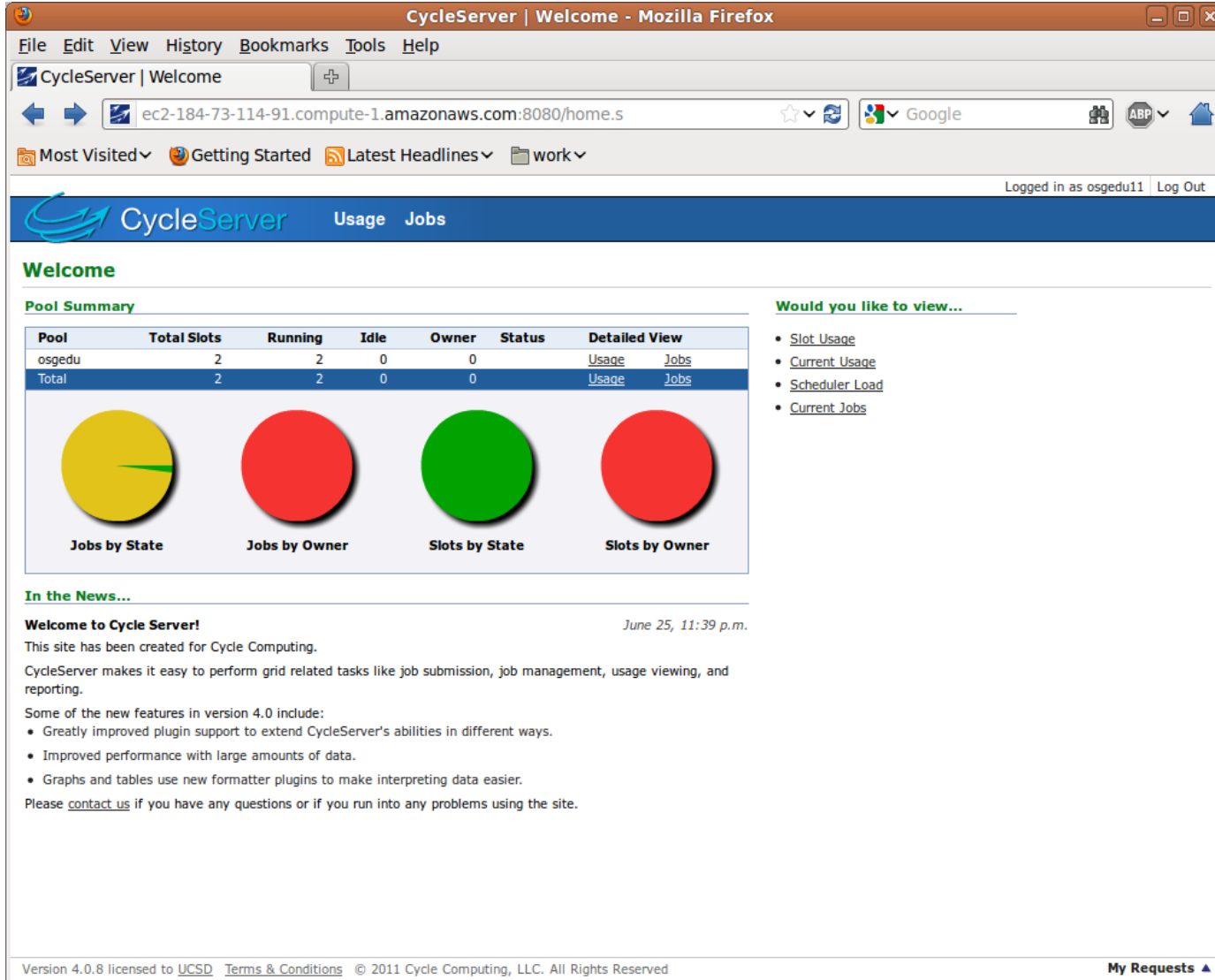
And we have running jobs

```
osgedu11@ip-10-127-162-116:~/submit
File Edit View Terminal Help
100 job(s) submitted to cluster 2.
[osgedu11@ip-10-127-162-116 submit]$
[osgedu11@ip-10-127-162-116 submit]$
[osgedu11@ip-10-127-162-116 submit]$
[osgedu11@ip-10-127-162-116 submit]$
[osgedu11@ip-10-127-162-116 submit]$ condor_q 2.0

-- Submitter: ip-10-127-162-116.ec2.internal : <10.127.162.116:43300> : ip-10-127-162-116.ec2.internal
ID      OWNER      SUBMITTED      RUN TIME ST PRI SIZE CMD
  2.0    osgedu11      6/26 00:08      0+00:00:26 R  0   0.0  a.sh
[osgedu11@ip-10-127-162-116 submit]$ condor_status

Name                                OpSys      Arch      State      Activity LoadAv Mem      ActvtyTime
ip-10-4-87-39.ec2. LINUX            X86_64    Claimed    Busy       0.030  1700  0+00:00:03
ip-10-72-207-135.e LINUX            X86_64    Claimed    Busy       0.040  1700  0+00:00:04
      Total Owner Claimed Unclaimed Matched Preempting Backfill
      X86_64/LINUX      2      0      2      0      0      0      0
      Total      2      0      2      0      0      0      0
[osgedu11@ip-10-127-162-116 submit]$
```

CycleCloud shows this as well



CycleServer | Welcome - Mozilla Firefox

File Edit View History Bookmarks Tools Help

CycleServer | Welcome

ec2-184-73-114-91.compute-1.amazonaws.com:8080/home.s

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Logged in as osgedu11 Log Out

CycleServer Usage Jobs


Welcome

Pool Summary


Pool	Total Slots	Running	Idle	Owner	Status	Detailed View
osgedu	2	2	0	0		Usage Jobs
Total	2	2	0	0		Usage Jobs




Jobs by State



Jobs by Owner



Slots by State



Slots by Owner

Would you like to view...

- [Slot Usage](#)
- [Current Usage](#)
- [Scheduler Load](#)
- [Current Jobs](#)

In the News...

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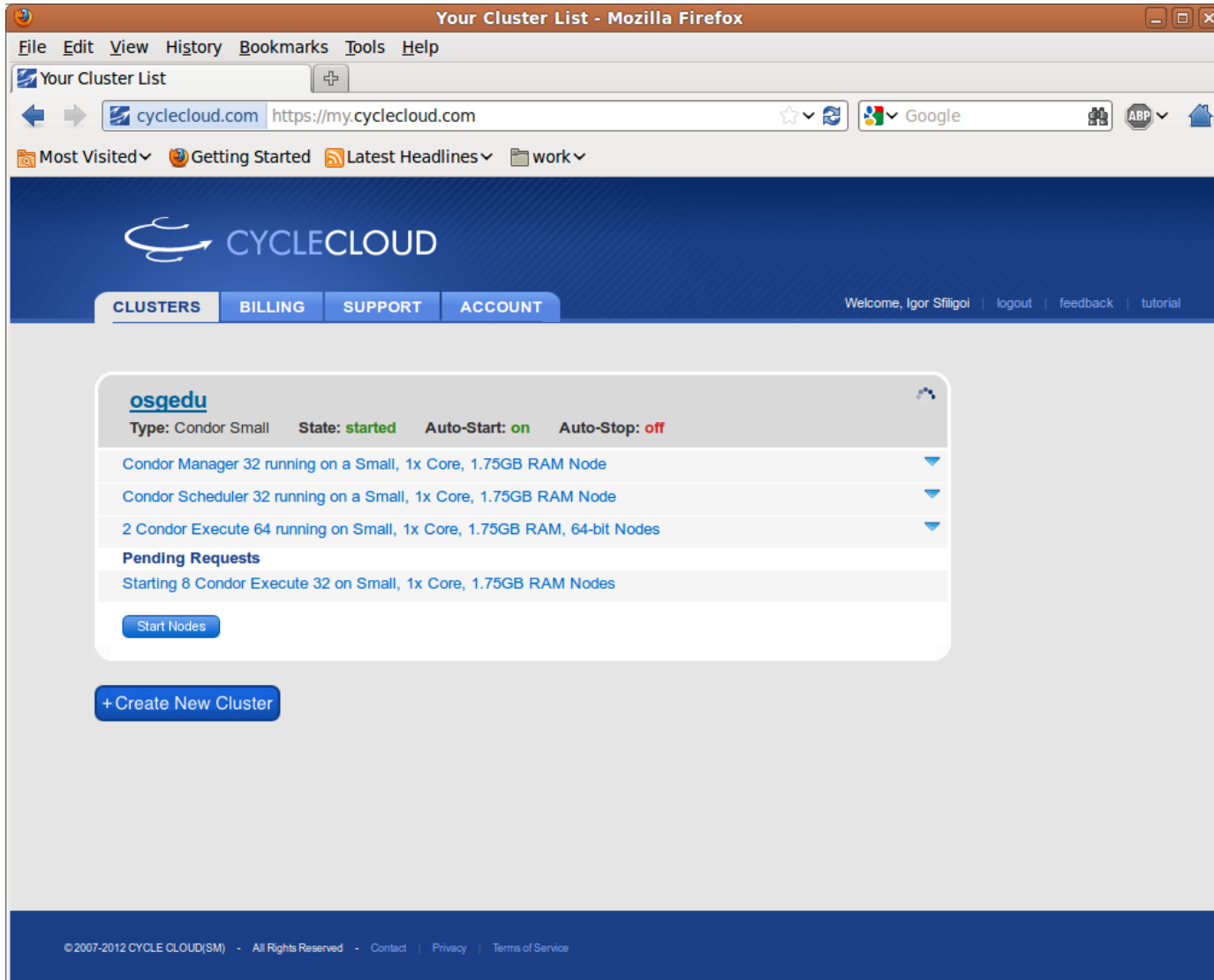
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With auto-start, more WNs on the way




Your Cluster List - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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CLUSTERS BILLING SUPPORT ACCOUNT

Welcome, Igor Sfiligoi | logout | feedback | tutorial

[osgedu](#)

Type: Condor Small State: **started** Auto-Start: **on** Auto-Stop: **off**

Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node

Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node

2 Condor Execute 64 running on Small, 1x Core, 1.75GB RAM, 64-bit Nodes

Pending Requests

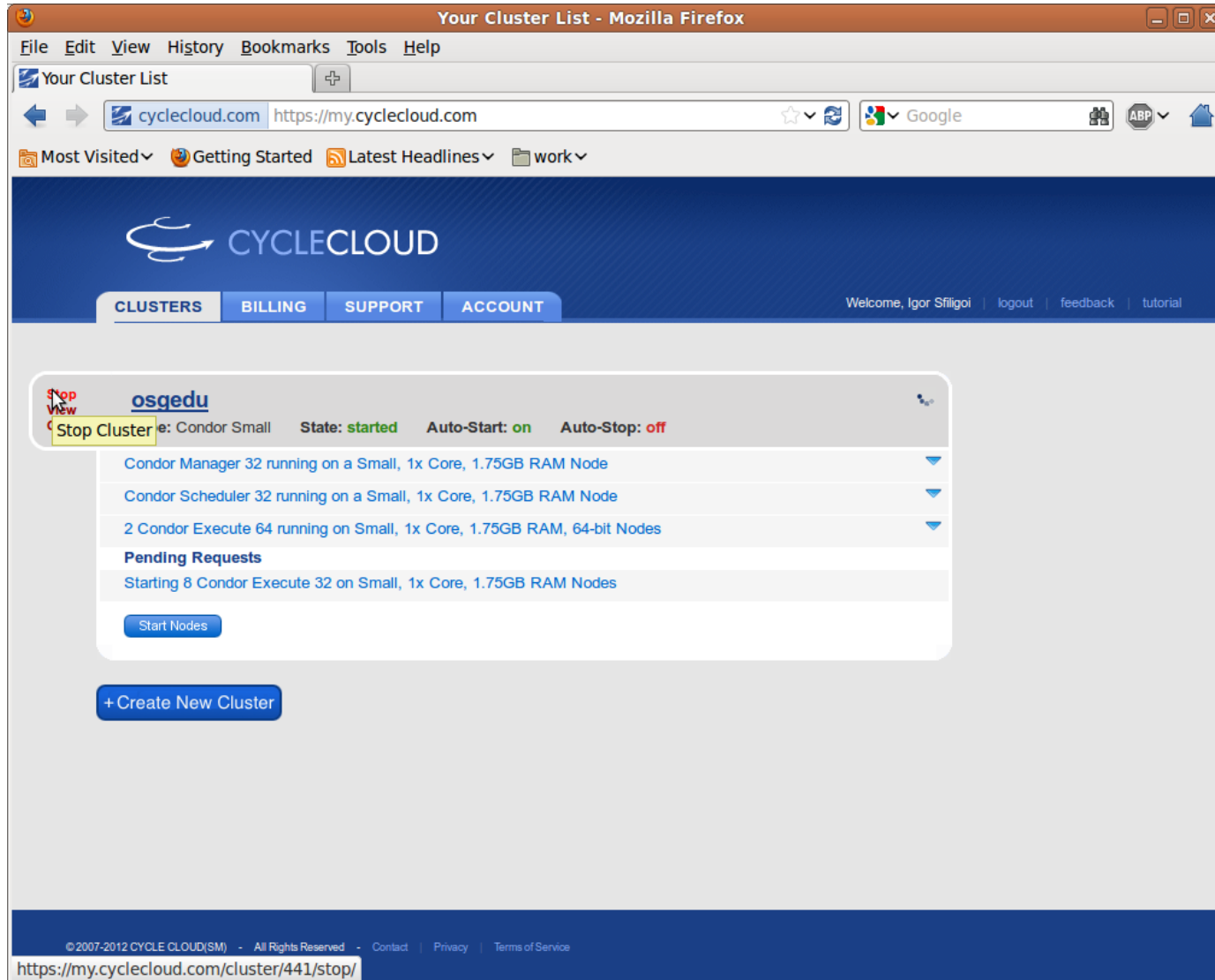
Starting 8 Condor Execute 32 on Small, 1x Core, 1.75GB RAM Nodes

Start Nodes

+Create New Cluster

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But enough for the demo




Your Cluster List - Mozilla Firefox

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Your Cluster List

cyclecloud.com https://my.cyclecloud.com

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osgedu

Stop Cluster e: Condor Small State: **started** Auto-Start: **on** Auto-Stop: **off**

Condor Manager 32 running on a Small, 1x Core, 1.75GB RAM Node

Condor Scheduler 32 running on a Small, 1x Core, 1.75GB RAM Node

2 Condor Execute 64 running on Small, 1x Core, 1.75GB RAM, 64-bit Nodes

Pending Requests

Starting 8 Condor Execute 32 on Small, 1x Core, 1.75GB RAM Nodes

Start Nodes

+Create New Cluster

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https://my.cyclecloud.com/cluster/441/stop/

A final look at the cost


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Summary of Jun 2012 Activity

Billing Cycle for this Report: Jun 01, 2012 - Jun 30, 2012 | << Last Statement | Next Statement >>

Your statement is determined based upon pricing. Please contact us with any questions.

Previous Balance:					\$21.47
Cluster Charges:	Item:	Rate:	Core Usage:	Instance Usage:	Totals:
osgedu [US East - Northern Virginia]	Condor Small	\$0.17/cluster-hour	---	1 Hrs	\$0.17
	Small, 1x Core, 1.75GB RAM, 64-bit	\$0.08/instance-hour	2 Hrs	2 Hrs	\$0.16
	Small, 1x Core, 1.75GB RAM	\$0.08/instance-hour	8 Hrs	8 Hrs	\$0.64
	Cluster Total >>		10 Hrs	10 Hrs	\$0.97
Account Charges:		Rate:	Usage:	Totals:	
Usage Total:				\$0.97	
Account Balance:				\$20.50	

View Transactions Add Credit

Questions?

- Questions? Comments?
 - Feel free to ask me questions anytime:
Igor Sfiligoi <isfiligoi@ucsd.edu>