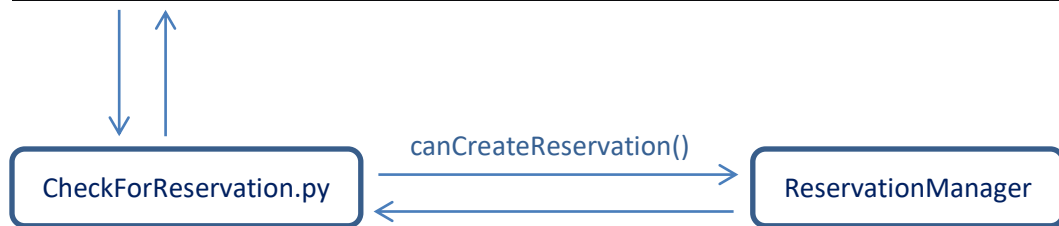


## Create a reservation



**Figure 1**

### CheckForReservation.py

Input :

- session\_id (String) : received when user logged in
- begin : Begin of reservation (datetime)
- end : End of reservation (datetime)
- sites\_id : list of site to be reserved (String of site id delimited with comma)  
ex. Site id 1 and 4 >> sites\_id = '1,4'
- resources : list of amount of resources (String of resources amount on each site delimited with pipe (|) and each resource type delimited with comma)  
ex. User want 32 CPUs and Memory 64 Gbs on first site and 2 CPUs and Memory 4 Gbs on second site. >> resources = '32,64|2,4'
- image type (String)

Output :

- result : True / False
  - True = reservation can be created
  - False = reservation cannot be created
- isResourceError : True / False
  - True = some resources are not enough
  - False = reservation cannot be created but not because of amount of resources.
- site\_error : list of site id and index of resources which are not enough for the reservation.

Example :

[http://lima-vc-1.sdsc.optiputer.net/project/scripts/CheckForReservation.py?session\\_id=XHG790&begin=2017-03-10 09:00:00&end=2017-03-11 09:00:00&sites\\_id=1,4&resources=128,64|4,64&img\\_type=centOS7](http://lima-vc-1.sdsc.optiputer.net/project/scripts/CheckForReservation.py?session_id=XHG790&begin=2017-03-10 09:00:00&end=2017-03-11 09:00:00&sites_id=1,4&resources=128,64|4,64&img_type=centOS7)

Result :

```
{  
  "result": "False",  
  "isResourceError": "True",  
  "site_error": [{  
    "site_id": "1",  
    "resource_index": "0"  
  }, {  
    "site_id": "1",  
    "resource_index": "1"  
  }]  
}
```

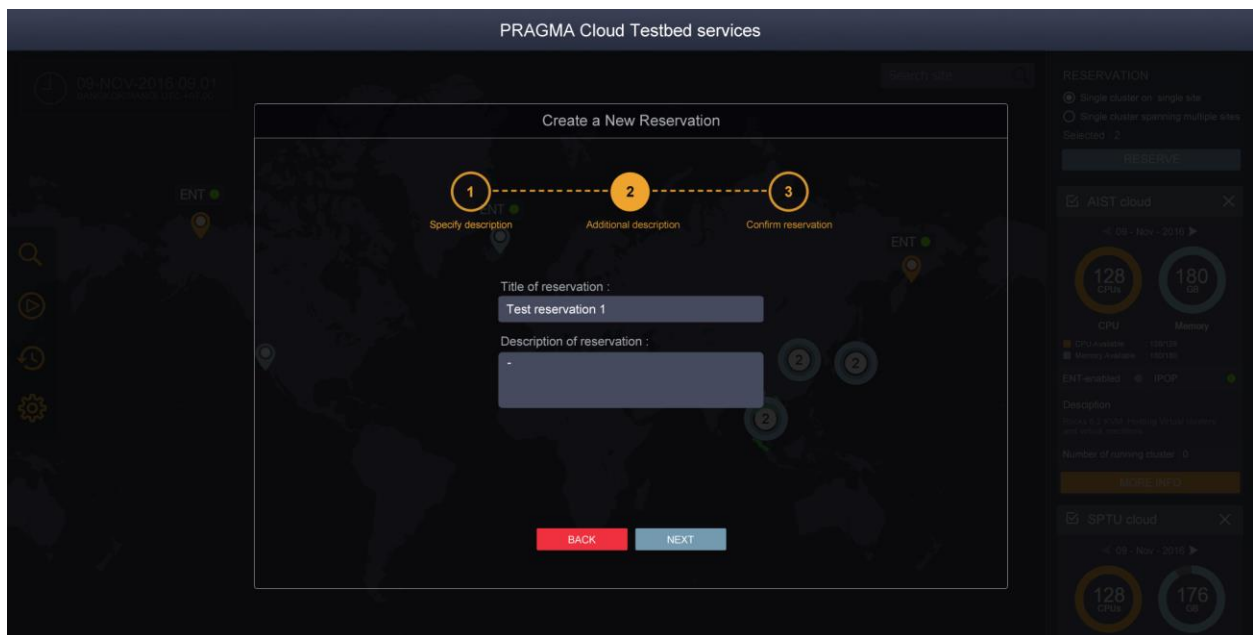
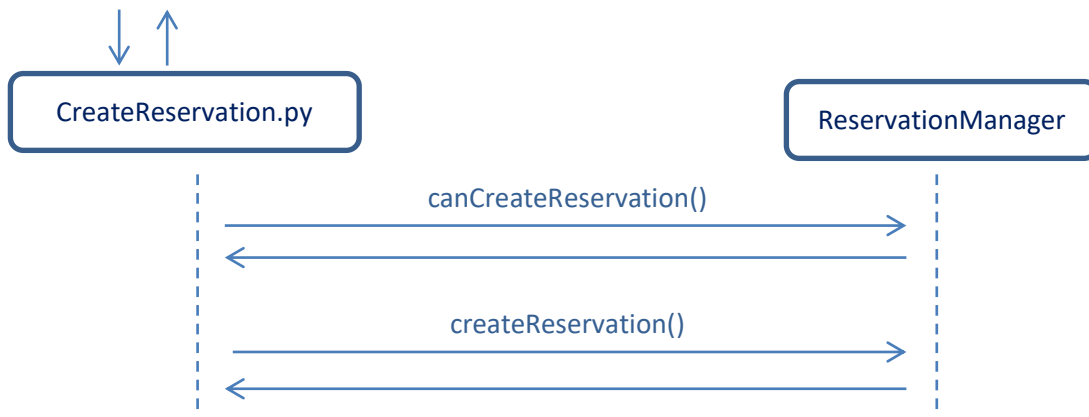
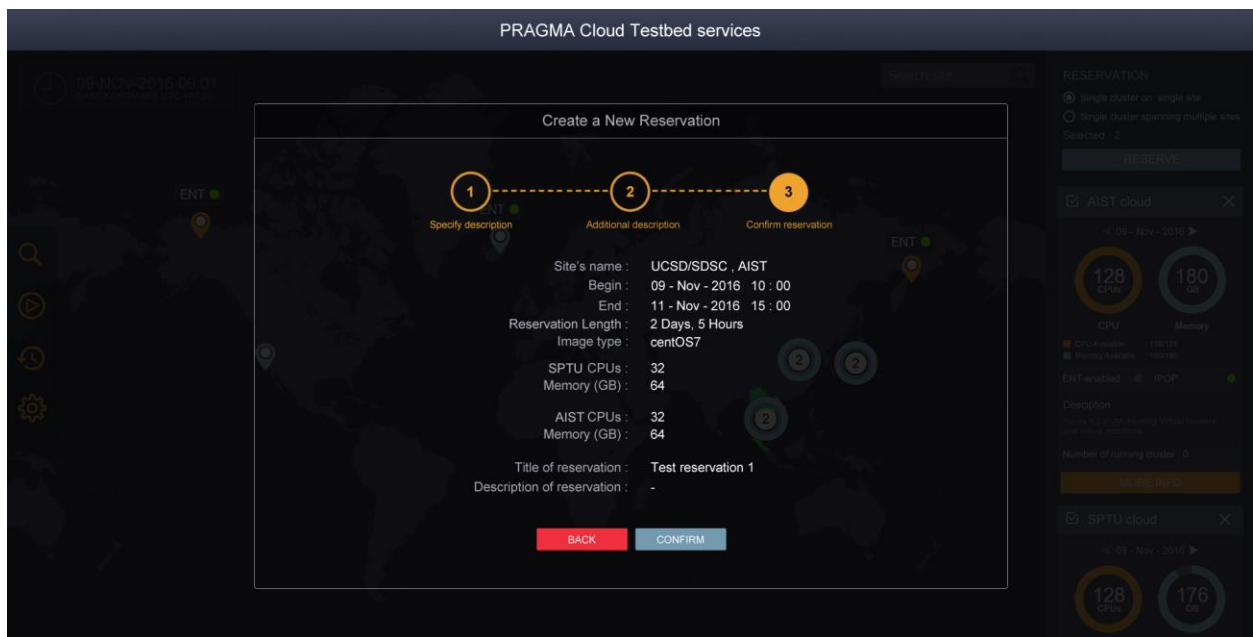


Figure 2



**Figure 3**

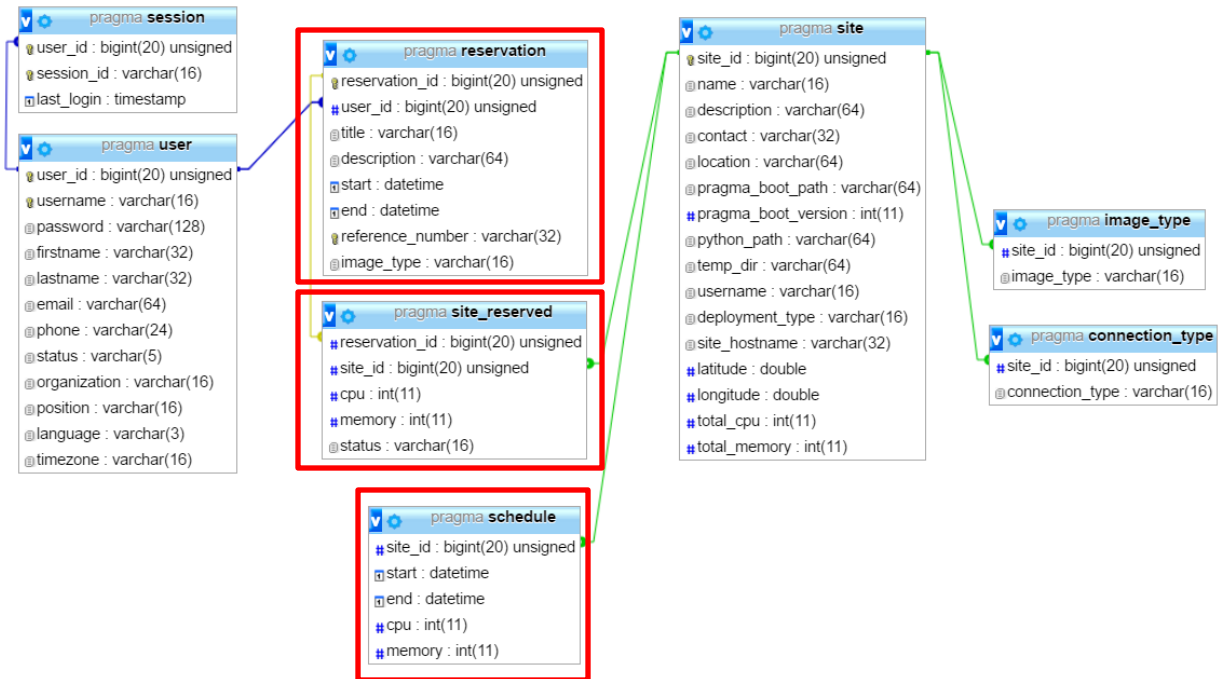


Figure 4

Example:

[http://lima-vc-1.sdsc.optiputer.net/project/scripts/CreateReservation.py?session\\_id=XHG790&begin=2017-03-10 09:00:00&end=2017-03-11 09:00:00&sites\\_id=1,4&resources=2,4|4,8&img\\_type=centOS7](http://lima-vc-1.sdsc.optiputer.net/project/scripts/CreateReservation.py?session_id=XHG790&begin=2017-03-10 09:00:00&end=2017-03-11 09:00:00&sites_id=1,4&resources=2,4|4,8&img_type=centOS7)

Result :

```

{
  "result": "success",
  "reserve_id": "1"
}
  
```

Figure 5

```
mysql> SELECT * FROM reservation;
```

reservation_id	user_id	title	description	start	end	reference_number	image_type
1	1	None	None	2017-03-10 09:00:00	2017-03-11 09:00:00	OWRTIV6192D503OPFITCYPGZYSKAHEZA	centOS7

```
mysql> SELECT * FROM site_reserved;
```

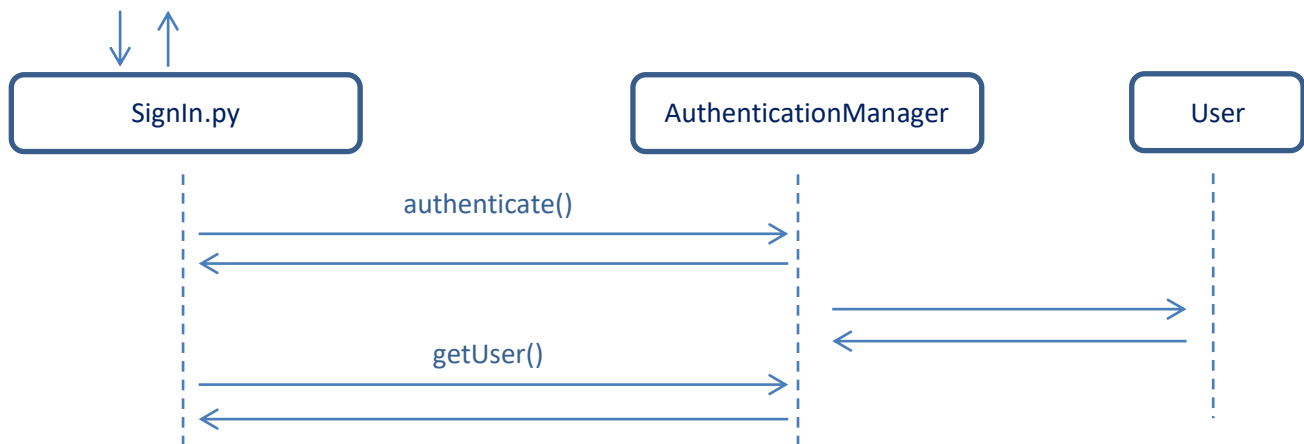
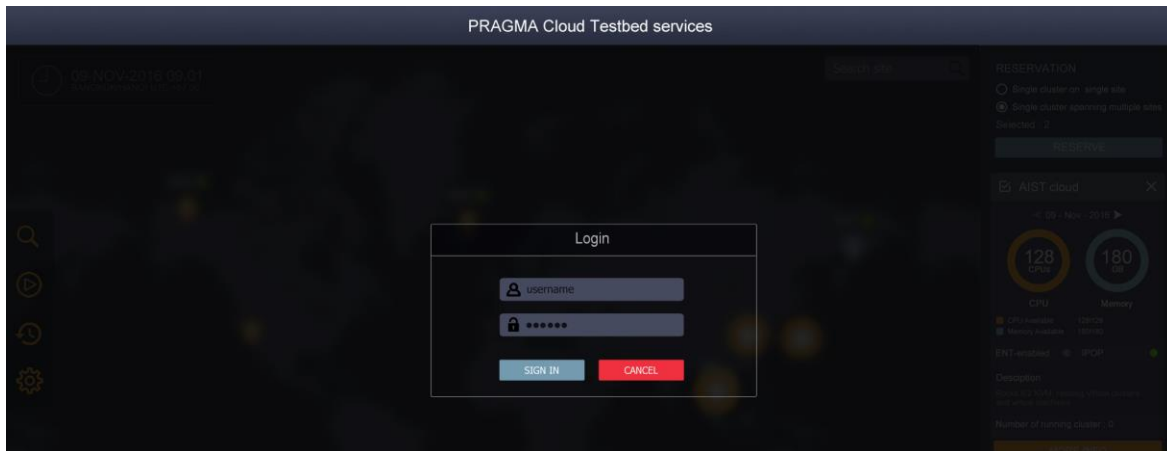
reservation_id	site_id	cpu	memory	status
1	1	2	4	running
1	4	4	8	running

```
mysql> SELECT * FROM schedule;
```

site_id	start	end	cpu	memory
1	2017-03-10 09:00:00	2017-03-10 10:00:00	2	4
4	2017-03-10 09:00:00	2017-03-10 10:00:00	4	8
1	2017-03-10 10:00:00	2017-03-10 11:00:00	2	4
4	2017-03-10 10:00:00	2017-03-10 11:00:00	4	8
1	2017-03-10 11:00:00	2017-03-10 12:00:00	2	4
4	2017-03-10 11:00:00	2017-03-10 12:00:00	4	8
1	2017-03-10 12:00:00	2017-03-10 13:00:00	2	4
4	2017-03-10 12:00:00	2017-03-10 13:00:00	4	8
1	2017-03-10 13:00:00	2017-03-10 14:00:00	2	4
4	2017-03-10 13:00:00	2017-03-10 14:00:00	4	8
1	2017-03-10 14:00:00	2017-03-10 15:00:00	2	4
4	2017-03-10 14:00:00	2017-03-10 15:00:00	4	8
1	2017-03-10 15:00:00	2017-03-10 16:00:00	2	4
4	2017-03-10 15:00:00	2017-03-10 16:00:00	4	8
1	2017-03-10 16:00:00	2017-03-10 17:00:00	2	4
4	2017-03-10 16:00:00	2017-03-10 17:00:00	4	8
1	2017-03-10 17:00:00	2017-03-10 18:00:00	2	4
4	2017-03-10 17:00:00	2017-03-10 18:00:00	4	8
1	2017-03-10 18:00:00	2017-03-10 19:00:00	2	4
4	2017-03-10 18:00:00	2017-03-10 19:00:00	4	8
1	2017-03-10 19:00:00	2017-03-10 20:00:00	2	4
4	2017-03-10 19:00:00	2017-03-10 20:00:00	4	8
1	2017-03-10 20:00:00	2017-03-10 21:00:00	2	4
4	2017-03-10 20:00:00	2017-03-10 21:00:00	4	8
1	2017-03-10 21:00:00	2017-03-10 22:00:00	2	4
4	2017-03-10 21:00:00	2017-03-10 22:00:00	4	8
1	2017-03-10 22:00:00	2017-03-10 23:00:00	2	4
4	2017-03-10 22:00:00	2017-03-10 23:00:00	4	8
1	2017-03-10 23:00:00	2017-03-11 00:00:00	2	4
4	2017-03-10 23:00:00	2017-03-11 00:00:00	4	8

Figure 6

## Sign in



**Figure 7**

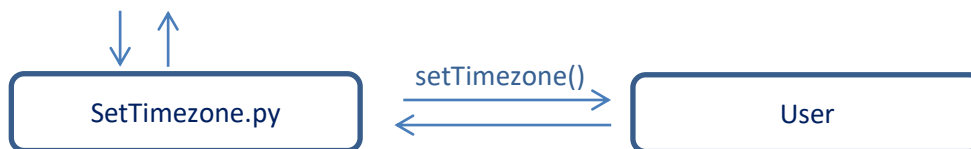
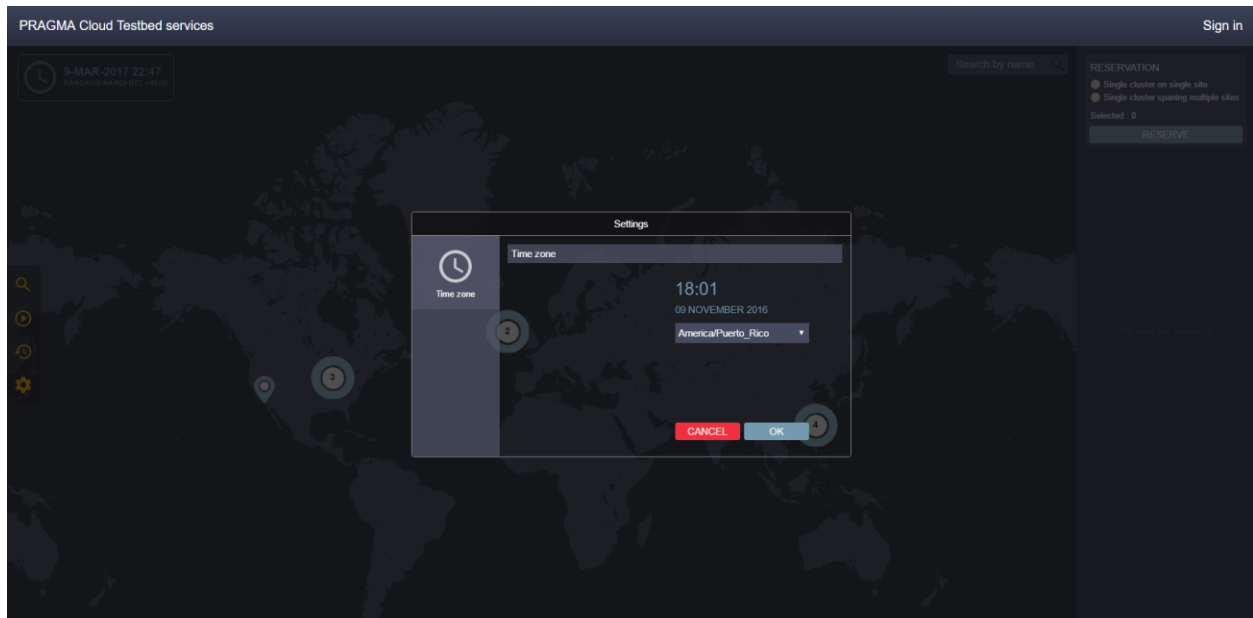
Example:

<http://lima-vc-1.sdsc.optiputer.net/project/scripts/signIn.py?username=project401&password=1234>

Result :

```
{
  "result": "True",
  "session_id": "TH4KGJ",
  "firstname": "nannapas",
  "lastName": "banluesombatkul",
  "email_address": "nannapas.blsbk@gmail.com",
  "phone_number": "None",
  "status": "user",
  "organization": "TU",
  "position": "student",
  "language": "TH",
  "timezone": "America/Los_Angeles"
}
```

## Set timezone



**Figure 8**

Example:

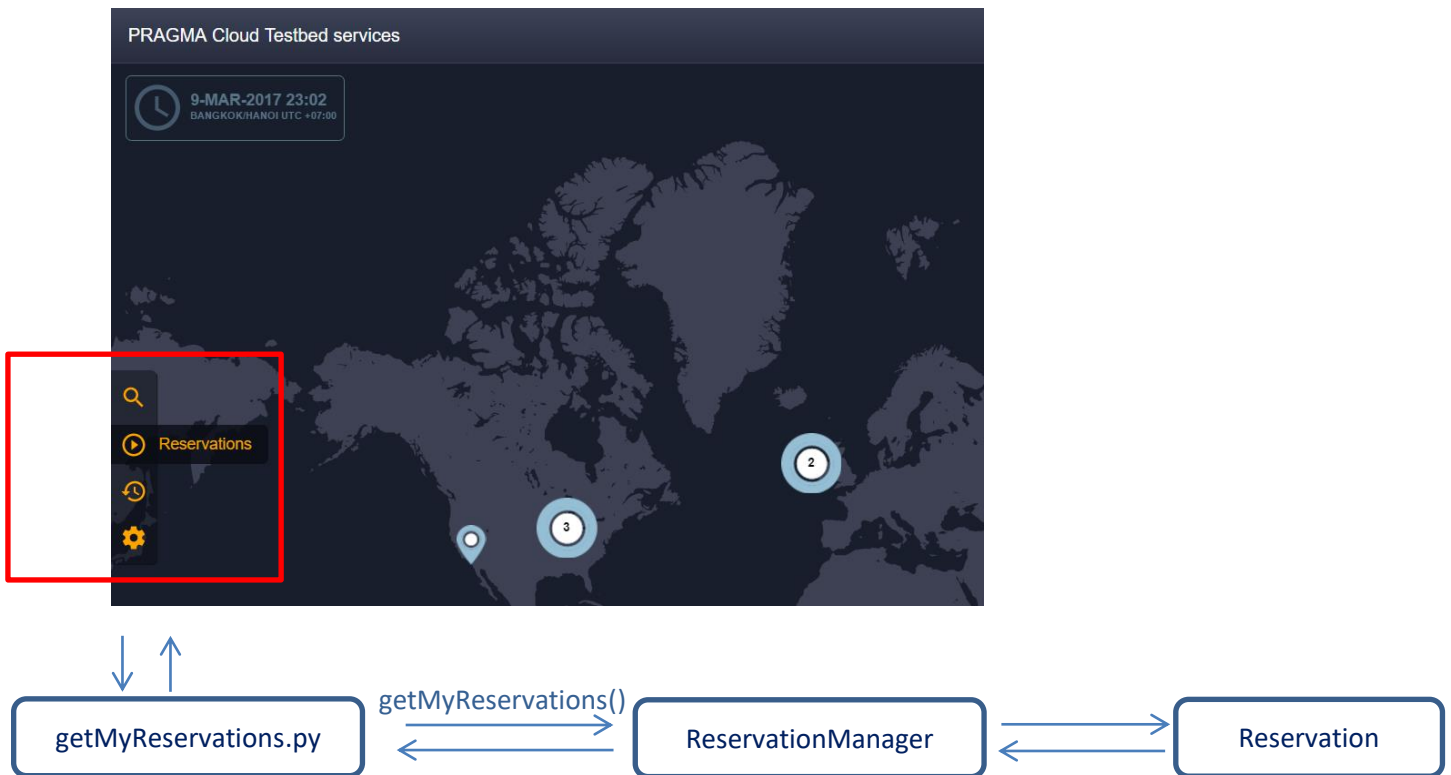
[http://lima-vc-](http://lima-vc-1.sdsc.optiputer.net/project/scripts/setTimezone.py?session_id=XHG790&timezone=America/Los_Angeles)

[1.sdsc.optiputer.net/project/scripts/setTimezone.py?session\\_id=XHG790&timezone=America/Los\\_Angeles](http://1.sdsc.optiputer.net/project/scripts/setTimezone.py?session_id=XHG790&timezone=America/Los_Angeles)

Result :

```
{  
  "result": "True"  
}
```

## See specific user's reservation



**Figure 9**

Example:

[http://lima-vc-1.sdsc.optiputer.net/project/scripts/getMyReservations.py?session\\_id=XHG790](http://lima-vc-1.sdsc.optiputer.net/project/scripts/getMyReservations.py?session_id=XHG790)

Result :

```
{
  "result": [{
    "reservation_id": "1",
    "title": "None",
    "end": "2017-03-11 09:00:00",
    "sites": [{
      "site_name": "NCHC cloud",
      "status": "running"
    }, {
      "site_name": "A1 cloud",
      "status": "running"
    }]
  }]
}
```