

## pfSense - Bug #3973

### Route 53 dynamic DNS provider fails to update record

11/02/2014 05:48 PM - Grant Horning

<b>Status:</b>	Resolved	<b>Start date:</b>	11/02/2014
<b>Priority:</b>	High	<b>Due date:</b>	
<b>Assignee:</b>	Renato Botelho	<b>% Done:</b>	0%
<b>Category:</b>	Dynamic DNS	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2.3.3	<b>Affected Architecture:</b>	
<b>Affected Version:</b>	2.3.x		

#### Description

Existing records are not updating with the Route 53 dynamic DNS provider.

Records that do not exist are created properly, but then pfSense fails to update the record.

I found these errors in /tmp/PHP\_errors.log, but there was no indication of failure in the system log or DynDNS page.

```
[02-Nov-2014 13:34:42 America/Denver] PHP Warning: Route53::changeResourceRecordSets(): Sender - InvalidChangeBatch: Tried to create resource record set [name='example.domain.org.', type='A'] but it already exists
```

```
Request Id: <removed>  
in /etc/inc/r53.class on line 545
```

```
[02-Nov-2014 13:36:53 America/Denver] PHP Warning: Route53::changeResourceRecordSets(): Sender - InvalidChangeBatch: RRSet with DNS name example. is not permitted in zone domain.org.
```

```
Request Id: <removed>  
in /etc/inc/r53.class on line 545
```

There have been several changes to the AWS Route 53 API since this class was implemented. The following files must be updated to fix this issue:

```
/etc/inc/r53.class  
/etc/inc/dyndns.class
```

#### Issue #1:

The latest AWS API requires that a FQDN must be used. (Eg. "example.domain.org." rather than "example.").

#### Issue #2

Instead of using the CREATE/DELETE API actions, UPSERT may be used to reduce code complexity.

[http://docs.aws.amazon.com/Route53/latest/APIReference/API\\_ChangeResourceRecordSets\\_Requests.html](http://docs.aws.amazon.com/Route53/latest/APIReference/API_ChangeResourceRecordSets_Requests.html)

#### History

##### #1 - 06/05/2015 09:32 AM - Jim Riggs

Here is the patch I am using with the System Patches package to work around this issue in 2.1:

```
--- /etc/inc/dyndns.class.orig    2015-06-05 08:14:09.000000000 -0500  
+++ /etc/inc/dyndns.class        2015-06-05 08:18:00.000000000 -0500  
@@ -538,44 +538,9 @@  
  
+         /* Set Amazon AWS Credentials for this record */  
+         $r53 = new Route53($AccessKeyId, $SecretAccessKey);  
+         $changes = $r53->prepareChange('UPSERT', $hostname, 'A', $NewTTL, $NewIP);
```

```

+         $result = $r53->changeResourceRecordSets("/hostedzone/$ZoneID", $changes);
-
-         /* Function to find old values of records in Route 53 */
-         if(!function_exists('Searchrecords')) {
-             function SearchRecords($records, $name) {
-                 $result = array();
-                 foreach($records as $record) {
-                     if(strtolower($record['Name']) == strtolower($name)) {
-                         $result [] = $record;
-                     }
-                 }
-                 return ($result) ? $result : false;
-             }
-         }
-
-         $records = $r53->listResourceRecordSets("/hostedzone/$ZoneID");
-
-         /* Get IP for your hostname in Route 53 */
-         if(false !== ($a_result = SearchRecords($records['ResourceRecordSets'], "$hostname"))) {
-             $OldTTL=$a_result[0][TTL];
-             $OldIP=$a_result[0][ResourceRecords][0];
-         } else {
-             $OldIP="";
-         }
-
-         /* Check if we need to update DNS Record */
-         if ($OldIP !== $NewIP) {
-             if(!empty($OldIP)) {
-                 /* Your Hostname already exists, deleting and creating it again */
-                 $changes = array();
-                 $changes[] = $r53->prepareChange(DELETE, $hostname, A, $OldTTL, $OldIP);
-                 $changes[] = $r53->prepareChange(CREATE, $hostname, A, $NewTTL, $NewIP);
-                 $result = $r53->changeResourceRecordSets("/hostedzone/$ZoneID", $changes);
-             } else {
-                 /* Your Hostname does not exist yet, creating it */
-                 $changes = $r53->prepareChange(CREATE, $hostname, A, $NewTTL, $NewIP);
-                 $result = $r53->changeResourceRecordSets("/hostedzone/$ZoneID", $changes);
-             }
-         }
-         $this->_checkStatus(0, $result);
-         break;
-     case 'custom':

```

**#2 - 11/11/2015 12:40 AM - Chris Buechler**

- *Category set to Dynamic DNS*

**#3 - 08/18/2016 10:55 AM - Matt Williams**

Jim,

Did you (or anyone) ever submit a commit to correct this? I know it becomes problematic when the TTL changes, but I would like to work on submitting this to have it included with the master branch. Also looking to add some geo features with that change. Thoughts?

M

**#4 - 12/07/2016 07:47 AM - Renato Botelho**

- *Status changed from New to Feedback*

- *Assignee set to Renato Botelho*

- *Target version set to 2.4.0*

Please check next round of 2.3.3 or 2.4.0 snapshots to make sure issue persists with current code

**#5 - 12/07/2016 06:01 PM - Jason McCormick**

The use of the UPCERT action in 6751 should address this bug.

**#6 - 01/18/2017 12:02 PM - Jim Pingle**

- *Status changed from Feedback to Resolved*

Tested Route53, it updates records properly now.

**#7 - 02/10/2017 10:47 AM - Jim Pingle**

- *Target version changed from 2.4.0 to 2.3.3*

- *Affected Version set to 2.3.x*