

```
27
28
       def mark temp(resource):
29
           if 'DBInstanceArn' in resource:
               key = 'Instances'
30
               identifier = resource['DBInstanceArn']
31
32
           else:
               key = 'Snapshots'
33
               identifier = resource['DBSnapshotArn']
34
35
           data = read_temp()
           data[key][identifier] = resource
36
           write temp(data)
37
38
39
40
       def remove temp(resource):
           if 'DBInstanceArn' in resource:
41
               key = 'Instances'
42
43
               identifier = resource['DBInstanceArn']
44
           else:
               key = 'Snapshots'
45
               identifier = resource['DBSnapshotArn']
46
47
           data = read temp()
           del data[key][identifier]
48
           write_temp(data)
49
50
51
52
       def read_temp():
           with TEMP_FILE.open('r') as infile:
53
54
               data = json.load(infile)
           return data
55
56
57
       def write_temp(data):
58
           with TEMP FILE.open('w') as outfile:
59
               json.dump(data, outfile, default=str)
60
61
62
63
       def cleanup(pacu):
64
           data = read_temp()
65
           success = True
           for instance in data['Instances']:
66
               client = pacu.get_boto3_client('rds', data['Instances'][instance]['AvailabilityZone'][:-1])
67
               if not delete_instance(client, instance, pacu.print):
68
69
                    success = False
70
           for snapshot in data['Snapshots']:
71
               client = pacu.get_boto3_client('rds', data['Snapshots'][snapshot]['AvailabilityZone'][:-1])
72
               if not delete_snapshot(client, snapshot, pacu.print):
```

```
73
                    success = False
 74
            return success
 75
76
 77
        def main(args, pacu):
 78
            """Main module function, called from Pacu"""
 79
            args = parser.parse_args(args)
 80
            if args.regions:
 81
                regions = args.regions.split(',')
 82
            else:
 83
                regions = pacu.get_regions('rds')
            if not cleanup(pacu):
 84
 85
                if pacu.input(' Cleanup Failed. Continue? (y/n) ') != 'y':
 86
                     return {'fail': 'Failed to delete temporary data.'}
            summary_data = {'instances': 0}
            for region in regions:
 88
 89
                pacu.print('Region: {}'.format(region))
 90
                client = pacu.get boto3 client('rds', region)
 91
                pacu.print(' Getting RDS instances...')
 92
                active_instances = get_all_region_instances(client, pacu.print)
 93
                pacu.print(' Found {} RDS instance(s)'.format(len(active_instances)))
 94
                for instance in active_instances:
 95
                    prompt = '
                                  Target: {} (y/n)? '.format(instance['DBInstanceIdentifier'])
 96
                    if pacu.input(prompt).lower() != 'y':
 97
                         continue
98
                    pacu.print('
                                     Creating temporary snapshot...')
 99
                    temp_snapshot = create_snapshot_from_instance(client, instance, pacu.print)
100
                     if not temp_snapshot:
101
                         pacu.print('
                                         Failed to create temporary snapshot')
102
                         continue
103
                    pacu.print('
                                     Restoring temporary instance from snapshot...')
104
105
                    temp_instance = restore_instance_from_snapshot(client, temp_snapshot, pacu.print)
                     if not temp instance:
106
                         pacu.print('
                                         Failed to create temporary instance')
107
108
                         delete_snapshot(client, temp_snapshot, pacu.print)
109
                         continue
110
                    process_instance(pacu, client, temp_instance)
111
112
113
                     pacu.print('
                                     Deleting temporary resources...')
                    delete_instance(client, temp_instance, pacu.print)
114
115
                     delete_snapshot(client, temp_snapshot, pacu.print)
116
                     summary_data['instances'] += 1
            if not cleanup(pacu):
117
112
                 summary data['fail'] = 'Failed to delete temporary data '
```

https://github.com/RhinoSecurityLabs/pacu/blob/866376cd711666c775bbfcde0524c817f2c5b181/pacu/modules/rds__explore

Summary_addat raff j - raffed to defect temporary adda. ___

```
180
                WaiterConfig=WAIT_CONFIG,
            )
181
            try:
182
                response = client.delete_db_snapshot(
183
                     DBSnapshotIdentifier=snapshot['DBSnapshotIdentifier']
184
185
                )
                remove_temp(response['DBSnapshot'])
186
187
                return True
            except ClientError as error:
188
                              ' + error.response['Error']['Code'])
189
            return False
190
191
192
        def delete_instance(client, instance, print):
193 🗸
            waiter = client.get_waiter('db_instance_available')
194
195
            waiter.wait(
196
                DBInstanceIdentifier=instance['DBInstanceIdentifier'],
                WaiterConfig=WAIT_CONFIG,
197
198
            )
199
            try:
                response = client.delete_db_instance(
200
201
                     DBInstanceIdentifier=instance['DBInstanceIdentifier'],
202
                     SkipFinalSnapshot=True,
203
                )
204
                remove_temp(response['DBInstance'])
205
            except ClientError as error:
                              ' + error.response['Error']['Code'])
                print('
206
                return False
207
            waiter = client.get_waiter('db_instance_deleted')
208
209
            waiter.wait(
```

```
DBInstanceIdentifier=instance['DBInstanceIdentifier'],
210
211
                WaiterConfig=WAIT CONFIG,
            )
212
213
            return True
214
215
        def create_snapshot_from_instance(client, instance, print):
216
            waiter = client.get waiter('db instance available')
217
            waiter.wait(
218
                DBInstanceIdentifier=instance['DBInstanceIdentifier'],
219
220
                WaiterConfig=WAIT CONFIG,
            )
221
            try:
222
                response = client.create_db_snapshot(
223
224
                    DBSnapshotIdentifier=instance['DBInstanceIdentifier'] + '-copy',
                    DBInstanceIdentifier=instance['DBInstanceIdentifier'],
225
                )
226
                mark_temp(response['DBSnapshot'])
227
                return response['DBSnapshot']
228
            except ClientError as error:
229
                            ' + error.response['Error']['Code'])
230
                print('
            return {}
231
232
233
        def get_all_region_instances(client, print):
234
235
            out = []
236
            paginator = client.get paginator('describe db instances')
            pages = paginator.paginate()
237
            try:
238
239
                for page in pages:
                    out.extend(page['DBInstances'])
240
                return out
241
            except ClientError as error:
242
                          ' + error.response['Error']['Code'])
243
                return []
244
245
246
       def summary(data, pacu_main):
247 ∨
            if 'fail' in data:
248
                out = data['fail'] + '\n'
249
            else:
250
                out = ' No issues cleaning up temporary data\n'
251
            out += ' {} Copy Instance(s) Launched'.format(data['instances'])
252
            return out
253
```