foreman-tasks - Bug #27275
CVE-2019-10198 Authorization bypasses when accessing task details
07/11/2019 11:02 AM - Adam Ruzicka

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Adam Ruzicka</td>
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<tr>
<td>Category:</td>
<td>Foreman plugin</td>
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<td>Target version:</td>
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<td>Difficulty:</td>
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<td>Pull request:</td>
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| Triaged:      | No                   |
| Bugzilla link:| 1729149              |

| Fixed in Releases:   |                     |
| Found in Releases:   |                     |

Description
A user who has no roles or permissions can still view task's details both through the web UI and through api, if the user knows the UUID of the task. I know UUIDs are tough to guess, but...

This was introduced in foreman-tasks@79a0e2cb5 [1], before this commit tasks were looked up through find_resource which performed authorization checks. After this change, permissions are bypassed.

Steps to reproduce:
1) Have foreman with foreman-tasks >= 0.7.8
2) Trigger a couple of tasks
3) Create a user, assign no roles to the user
4.1) As the user, visit $foreman/foreman_tasks/tasks/$UUID, where $UUID is UUID of a task from 2)
4.2) As the user, visit $foreman/foreman_tasks/tasks/$UUID/sub_tasks, where $UUID is UUID of a task from 2) which has sub tasks
4.3) As the user, perform get request against $foreman/foreman_tasks/api/tasks/$UUID

Actual result:
In the UI, task details are shown. For task with sub tasks, sub tasks are shown on an index-like page.
In the API, details are provided.

Expected result:
In the UI, permission denied page is shown.
In the API, the request fails with either 403 or 404.

```bash
# curl -u user:changeme -k https://localhost/foreman_tasks/api/tasks/f4211c3e-467f-405e-a70c-980d6c4d4e0f 2>/dev/null | ruby -e "require 'json'; puts JSON.pretty_generate(JSON.parse(STDIN.read))"
```

```json
{
    "id": "f4211c3e-467f-405e-a70c-980d6c4d4e0f",
    "label": "Actions::RemoteExecution::RunHostJob",
    "pending": false,
    "action": "Remote action: Run sleep 60 on helpful-snipe.lxd",
    "username": "admin",
    "started_at": "2019-07-10 12:21:44 UTC",
    "ended_at": "2019-07-10 12:22:50 UTC",
    "state": "stopped",
    "result": "success",
    "progress": 1.0,
    "input": {
        "host": {
            "id": 1,
            "name": "helpful-snipe.lxd"
        },
        "job_category": "Commands",
        "description": "Run sleep 60",
        "delegated_action_id": 2,
        "locale": "en",
        "current_request_id": null,
        "current_timezone": "Europe/Prague",
```

03/15/2020
Associated revisions

Revision 3104a46c - 07/15/2019 11:33 AM - Adam Růžička
Fixes #27275 - Fix permission bypasses in controllers

History

#1 - 07/11/2019 01:02 PM - The Foreman Bot
- Status changed from Assigned to Ready For Testing
- Pull request https://github.com/theforeman/foreman-tasks/pull/434 added

#2 - 07/11/2019 01:15 PM - Tomer Brisker
- Subject changed from Authorization bypasses when accessing task details to CVE-2019-1019 Authorization bypasses when accessing task details

#3 - 07/11/2019 01:16 PM - Adam Ruzicka
- Bugzilla link set to 1729149

#4 - 07/11/2019 01:24 PM - Tomer Brisker
- Subject changed from CVE-2019-1019 Authorization bypasses when accessing task details to CVE-2019-10198 Authorization bypasses when accessing task details

#5 - 07/15/2019 12:01 PM - Anonymous
- Status changed from Ready For Testing to Closed

Applied in changeset 3104a46c669ae62f9034e9547cb93cc03384cd9.