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CVE-2020-11799 - Z-Cron Lack of Access Control

Website URL: https://www.z-cron.com/

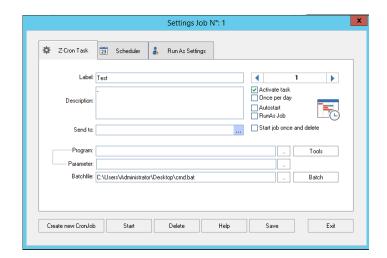
Version: 5.6 Build 04

Description: Z-Cron is a task scheduling software that enables Administrators and Users to schedule tasks on a system. Exploit Details: Z-Cron tasks are shared globally throughout the system, enabling any user to open the software, modify a task (which is classified as Insecure Access Control), and have it executed. If the executable is stored in a publicly accessible location, all logged in users will have the task executed.

Video Demonstrating the Exploit: https://youtu.be/hFFhCZ-4qSw

Steps To Reproduce

 Create a scheduled task (In our instance, we're going to create the task as a privileged user)



 Ensure the task is being executed on some time of a schedule in the scheduler tab, for example, here we're going to create a task to execute every 5 minutes

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• Ensure the credentials of the user you want the task to run as are implemented

0

Delete

✓ Monday

✓ Tuesday

✓ Thursday

✓ Saturday

✓ Sunday

✓ Friday

✓ Wednesday

✓ Activate task

OK

Last Starting time

11:55:00

Schedule

Month

✓ Weekday

Create new CronJob

Scheduler - Z-Cron Job: 1

(a) 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23

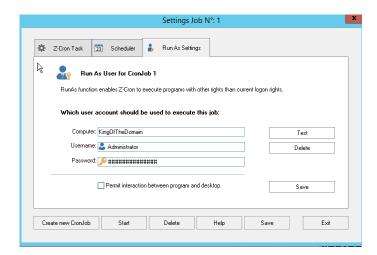
4/13/2020

Settings for period: weekday

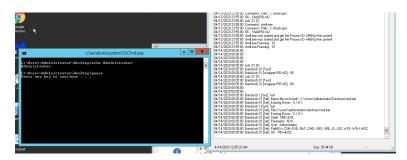
Every 5 minutes ▼

Save

Exit



Ensure the task is saved, run a demo and make sure the task executes successfully



Above is a screenshot of the task being executed as well as the log files.

Now we're going to begin the exploitation portion - An unprivileged user can modify the privileged users task



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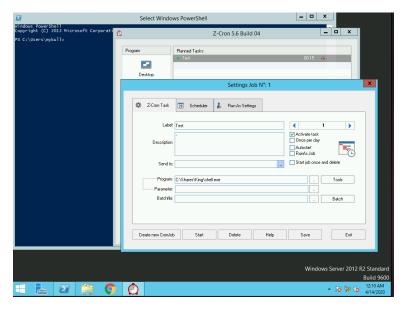
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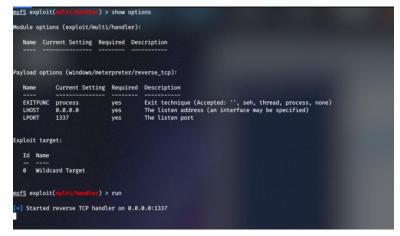
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Next we're going to put the payload in a publicly accessible location, and modify the task as a normal, different, unprivileged user:



• In the background we have exploit/multi/handler listening for the reverse shell to get executed on the 5 minute mark:



• Watch out for all the incoming shells. For every user that has been logged into the box, vou'll recieve a shell:

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```
,
:1337 → 192.168.191.148:57104) at 2020-04-14 03:14:59 -0400
```

This should be a lesson about access control and how powerful it is when any user can modify something that a privileged user has created.

Credits:

Thank you to @OptionalCTF (https://twitter.com/optionalctf) for editing the video demonstrating the exploit and @OrielOrielOriel (https://twitter.com/OrielOrielOrielOriel) for confirming my sanity throughout this long-long-long night.

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