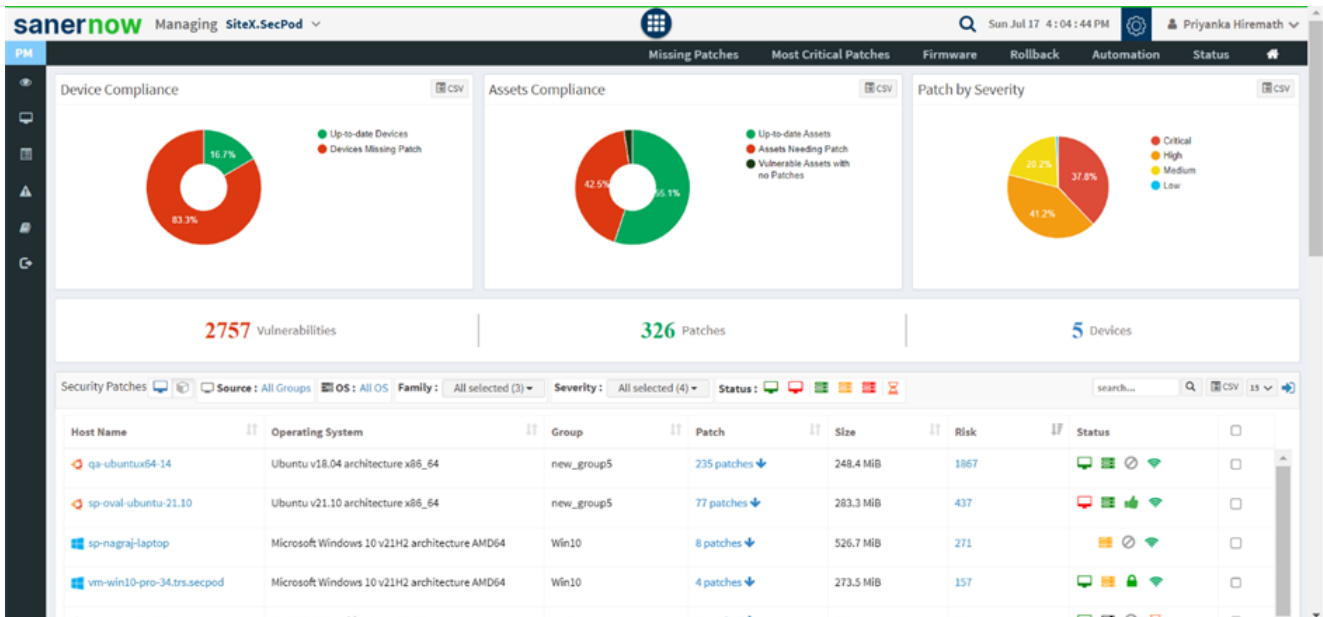


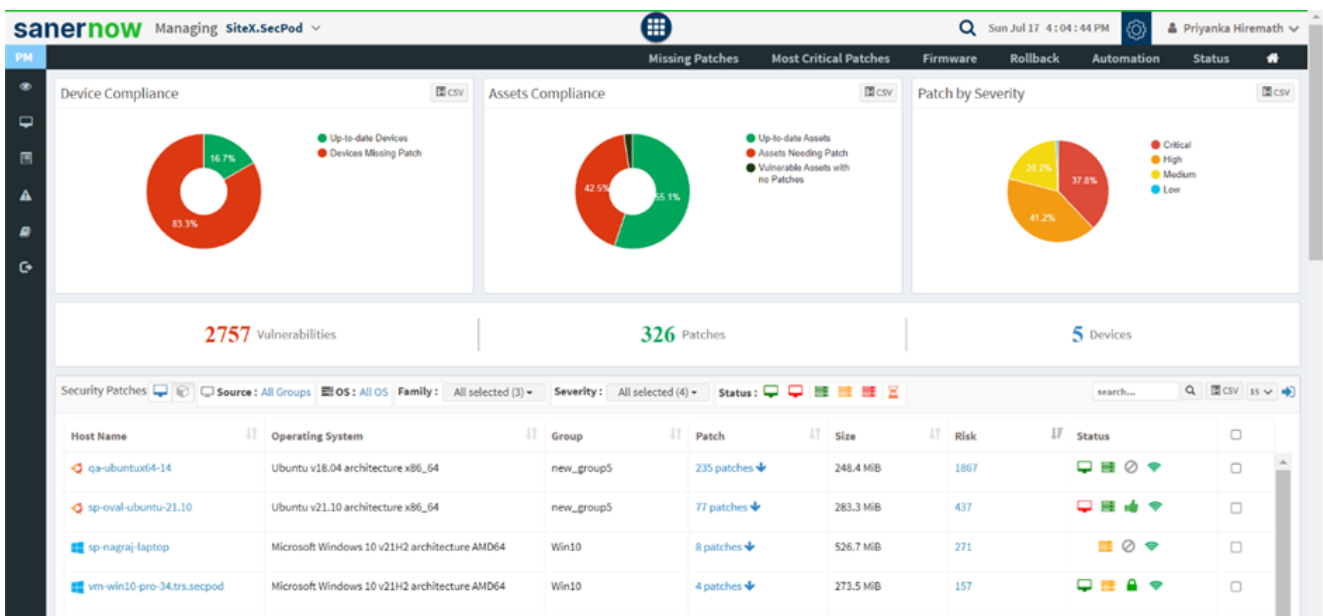
How to apply missing patches in SanerNow?

SanerNow lists all the security and non-security missing patches and allows remediation for the same. Let us learn how to apply missing patches in SanerNow.

1. In Sanernow, go to the **Patch management dashboard**.



2. In the patch management dashboard, click on **Missing patches**.



3. You will be displayed with all the missing patches, assigned vendor, asset name, patch size, and other details.

sanernow Managing SiteX.SecPod

Sun Jul 17 4:10:32 PM Priyanka Hiremath

Missing Patches Most Critical Patches Firmware Rollback Automation Status

Security Non-security Source: All Groups Operating System: All OS Family: Windows Linux Mac Severity: Critical High Medium Low Type: Third Party

Apply Selected Patches

<input type="checkbox"/>	Asset	Patch	Vendor	Size	Date	Reboot	Risk	Hosts
<input type="checkbox"/>	7-zip x86	7-zip-22.00-x86.exe	7-zip	1.2 MiB	2022-06-29 09:35:56 AM UTC	FALSE	High	2
<input type="checkbox"/>	accountsservice	accountsservice 0.6.55-0ubuntu14.1	ray_stode	58.7 KiB	2022-05-31 11:43:24 AM UTC	FALSE	High	1
<input type="checkbox"/>	Adobe Acrobat Reader DC 2020 Classic	acrobat_reader_dc_classic-20.005.30362-etc...	adobe	272.3 MiB	2022-07-16 05:57:46 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	Adobe Reader 9 x86 (Outdated)	acrobat_reader_dc_continuous-22.001.201...	adobe	315.5 MiB	2022-07-16 05:04:06 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	apache2	apache2 2.4.29-1ubuntu4.25	apache	92.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	apport	apport 2.20.9-0ubuntu7.28	apport	122.7 KiB	2022-04-27 11:08:22 AM UTC	FALSE	Critical	2
<input type="checkbox"/>	apt	apt 1.6.12ubuntu0.2	apt	1.1 MiB	2022-04-27 11:08:22 AM UTC	FALSE	Medium	1
<input type="checkbox"/>	aptdaemon	aptdaemon 1.1.1+bzr982-0ubuntu19.5	sebastian_heinlein	13.2 KiB	2022-06-16 01:54:56 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	aspell	aspell 0.60.7-20110707-4ubuntu0.2	aspell	65.7 KiB	2022-06-16 01:54:57 PM UTC	FALSE	High	1
<input type="checkbox"/>	avahi-autoipd	avahi-autoipd 0.7-3.1ubuntu1.3	avahi-autoipd	37.5 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	avahi-daemon	avahi-daemon 0.7-3.1ubuntu1.3	avahi	60.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	avahi-utils	avahi-utils 0.7-3.1ubuntu1.3	avahi-utils	24.1 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	bash	bash 4.4.19-2ubuntu1.3	gnu	600.2 KiB	2022-03-29 09:12:27 AM UTC	FALSE	High	1

4. You have got multiple filters to set and apply the patches.

- You can select security patches or non-security patches
- You can choose the group of devices to apply the patches
- Also, you can apply patches based on operating systems
- You can get the list of patches based on the severity of the vulnerability
- You can also list the third-party patches

sanernow Managing SiteX.SecPod

Sun Jul 17 4:10:32 PM Priyanka Hiremath

Missing Patches Most Critical Patches Firmware Rollback Automation Status

Security Non-security Source: All Groups Operating System: All OS Family: Windows Linux Mac Severity: Critical High Medium Low Type: Third Party

Apply Selected Patches

<input type="checkbox"/>	Asset	Patch	Vendor	Size	Date	Reboot	Risk	Hosts
<input type="checkbox"/>	7-zip x86	7-zip-22.00-x86.exe	7-zip	1.2 MiB	2022-06-29 09:35:56 AM UTC	FALSE	High	2
<input type="checkbox"/>	accountsservice	accountsservice 0.6.55-0ubuntu14.1	ray_stode	58.7 KiB	2022-05-31 11:43:24 AM UTC	FALSE	High	1
<input type="checkbox"/>	Adobe Acrobat Reader DC 2020 Classic	acrobat_reader_dc_classic-20.005.30362-etc...	adobe	272.3 MiB	2022-07-16 05:57:46 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	Adobe Reader 9 x86 (Outdated)	acrobat_reader_dc_continuous-22.001.201...	adobe	315.5 MiB	2022-07-16 05:04:06 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	apache2	apache2 2.4.29-1ubuntu4.25	apache	92.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Critical	1
<input type="checkbox"/>	apport	apport 2.20.9-0ubuntu7.28	apport	122.7 KiB	2022-04-27 11:08:22 AM UTC	FALSE	Critical	2
<input type="checkbox"/>	apt	apt 1.6.12ubuntu0.2	apt	1.1 MiB	2022-04-27 11:08:22 AM UTC	FALSE	Medium	1
<input type="checkbox"/>	aptdaemon	aptdaemon 1.1.1+bzr982-0ubuntu19.5	sebastian_heinlein	13.2 KiB	2022-06-16 01:54:56 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	aspell	aspell 0.60.7-20110707-4ubuntu0.2	aspell	65.7 KiB	2022-06-16 01:54:57 PM UTC	FALSE	High	1
<input type="checkbox"/>	avahi-autoipd	avahi-autoipd 0.7-3.1ubuntu1.3	avahi-autoipd	37.5 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	avahi-daemon	avahi-daemon 0.7-3.1ubuntu1.3	avahi	60.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	avahi-utils	avahi-utils 0.7-3.1ubuntu1.3	avahi-utils	24.1 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/>	bash	bash 4.4.19-2ubuntu1.3	gnu	600.2 KiB	2022-03-29 09:12:27 AM UTC	FALSE	High	1

5. Manually select the patches from the check box and click on **Apply Selected Patches**.

sanernow Managing SiteX.SecPod

Mon Jul 18 11:41:01 AM Priyanka Hiremath

Missing Patches Most Critical Patches Firmware Rollback Automation Status

Security Non-security Source: All Groups Operating System: All OS Family: Windows Linux Mac Severity: Critical High Medium Low Type: Third Party

Asset	Patch	Vendor	Size	Date	Reboot	Risk	Hosts
<input checked="" type="checkbox"/> 7-zip x86	7-zip-22.00-x86.exe	7-zip	1.2 MiB	2022-06-29 05:35:56 AM UTC	FALSE	High	2
<input checked="" type="checkbox"/> accountsservice	accountsservice 0.6.55-0ubuntu14.1	ray_stode	56.7 KiB	2022-05-31 11:43:24 AM UTC	FALSE	High	1
<input checked="" type="checkbox"/> Adobe Acrobat Reader DC 2020 Classic	acrobat_reader_dc_classic-20.005.20362-etc...	adobe	272.3 MiB	2022-07-16 05:57:46 PM UTC	FALSE	Critical	1
<input type="checkbox"/> Adobe Reader 9 x86 (Outdated)	acrobat_reader_dc_continuous-22.001.201...	adobe	315.5 MiB	2022-07-16 05:04:08 PM UTC	FALSE	Critical	1
<input type="checkbox"/> apache2	apache2 2.4.29-1ubuntu4.25	apache	92.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Critical	1
<input type="checkbox"/> appport	appport 2.20.9-0ubuntu7.28	appport	122.7 KiB	2022-04-27 11:08:22 AM UTC	FALSE	Critical	2
<input type="checkbox"/> apt	apt 1.6.12ubuntu0.2	apt	1.1 MiB	2022-04-27 11:08:22 AM UTC	FALSE	Medium	1
<input type="checkbox"/> aptdaemon	aptdaemon 1.1.1+bcr982-0ubuntu15.5	sebastian_heinlein	13.2 KiB	2022-06-16 01:54:56 PM UTC	FALSE	Medium	1
<input type="checkbox"/> aspell	aspell 0.60.7-20110707-4ubuntu0.2	aspell	85.7 KiB	2022-06-16 01:54:57 PM UTC	FALSE	High	1
<input type="checkbox"/> avahi-autoipd	avahi-autoipd 0.7-3.1ubuntu1.3	avahi-autoipd	37.5 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/> avahi-daemon	avahi-daemon 0.7-3.1ubuntu1.3	avahi	60.9 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/> avahi-utils	avahi-utils 0.7-3.1ubuntu1.3	avahi-utils	24.1 KiB	2022-06-16 01:54:57 PM UTC	FALSE	Medium	1
<input type="checkbox"/> bash	bash 4.4.19-2ubuntu1.3	gnu	600.2 KiB	2022-03-29 09:12:27 AM UTC	FALSE	High	1

6. You will be displayed with create patching task window.

sanernow Managing SiteX.SecPod

Mon Jul 18 11:48:15 AM Priyanka Hiremath

Create Patching Task

Task Controls

- ☐ Reboot Control
- ☐ Remediation End Time
- ☐ Patching Notification
- ☐ Remediation Scripts
- ☐ Test and Deploy

Task Name

Remediation Schedule

Task Impact

1 Patch

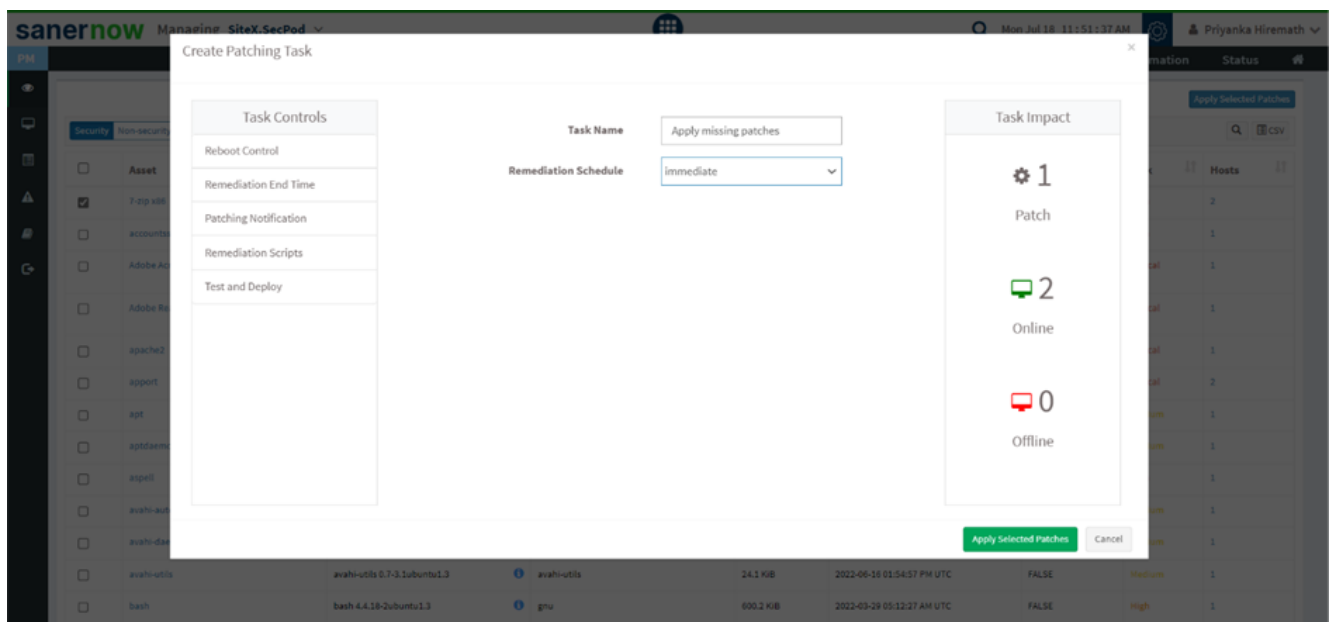
2 Online

0 Offline

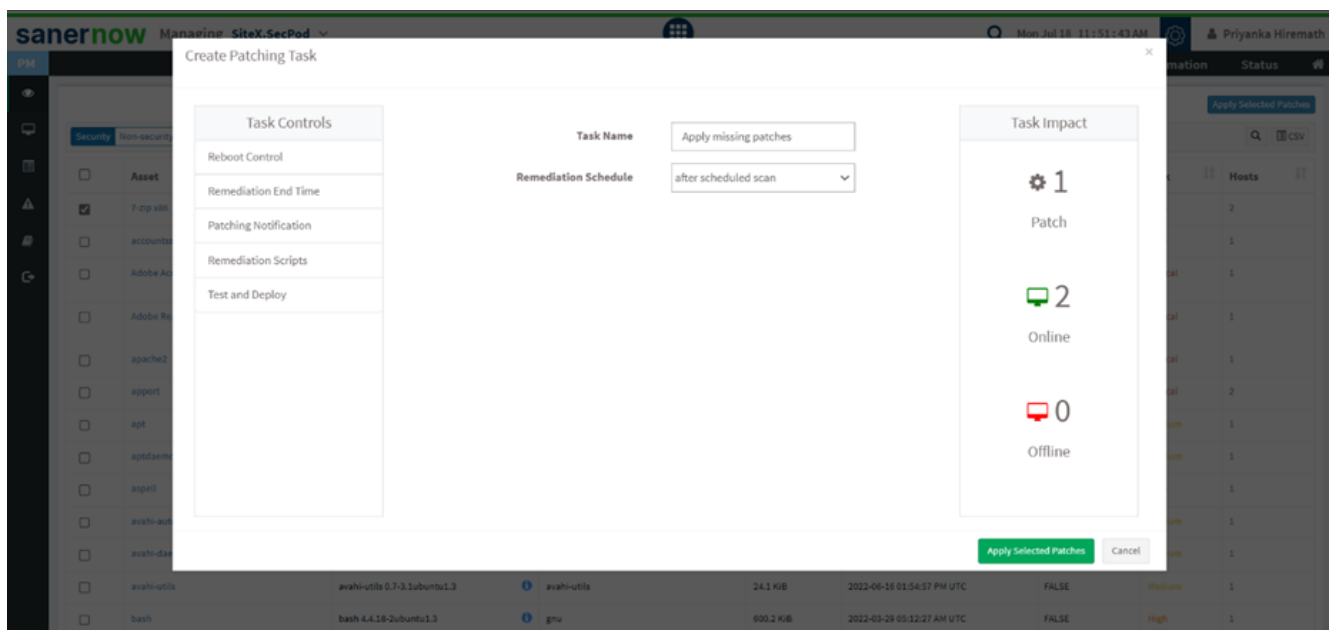
Apply Selected Patches Cancel

7. You get various Task Controls to apply missing patches. Here, assign the task name and schedule the remediation time.

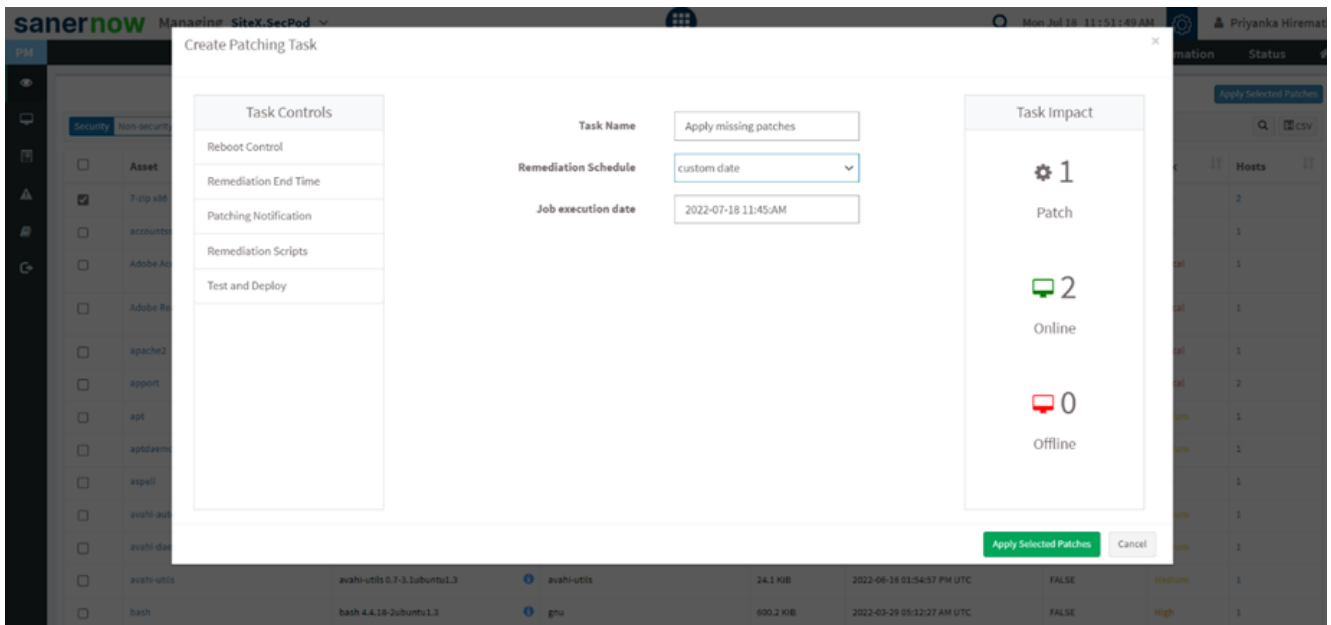
- You can immediately apply patches



- You can apply patches after the scheduled scan

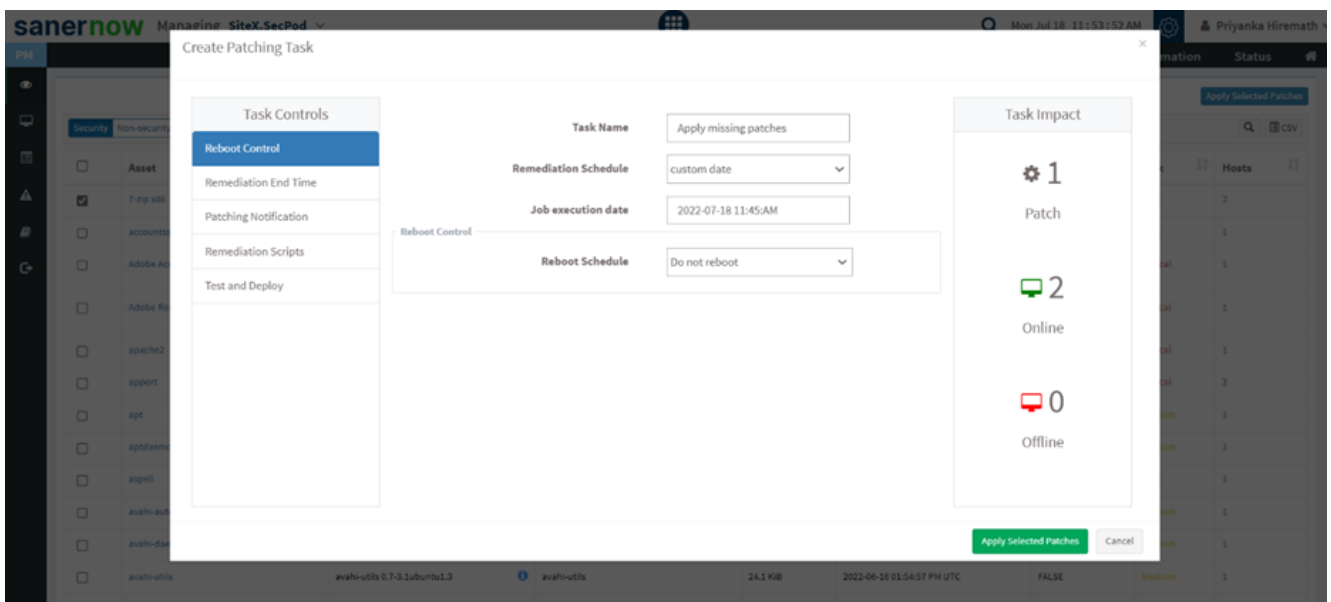


- You can apply patches on a custom date



8. You can schedule the reboot time from the Reboot control option.

- Do not reboot



- Reboot automatically: Once the patch is applied, the system gets rebooted automatically with a prior reboot notification.

Create Patching Task

Task Controls

- Reboot Control
- Remediation End Time
- Patching Notification
- Remediation Scripts
- Test and Deploy

Task Name: Apply missing patches

Remediation Schedule: custom date

Job execution date: 2022-07-18 11:45:AM

Reboot Control

Reboot Schedule: Reboot automatically

Reboot message: Your system is rebooting after success

Task Impact

- 1 Patch
- 2 Online
- 0 Offline

Assets Table

Asset	Version	Size	Last Update	Status
avahi-utls	0.7-3.1ubuntu1.3	24.1 KIB	2022-06-16 01:54:57 PM UTC	FALSE
bash	4.4.19-2ubuntu1.3	600.2 KIB	2022-03-29 05:12:27 AM UTC	FALSE

- **Schedule date and time:** You can schedule a date and time with a reboot message.

Create Patching Task

Task Controls

- Reboot Control
- Remediation End Time
- Patching Notification
- Remediation Scripts
- Test and Deploy

Task Name: Apply missing patches

Remediation Schedule: custom date

Job execution date: 2022-07-18 11:45:AM

Reboot Control

Reboot Schedule: Schedule date and time

Reboot date time: reboot date

Reboot message: Your system is rebooting after success

Task Impact

- 1 Patch
- 2 Online
- 0 Offline

Assets Table

Asset	Version	Size	Last Update	Status
avahi-utls	0.7-3.1ubuntu1.3	24.1 KIB	2022-06-16 01:54:57 PM UTC	FALSE
bash	4.4.19-2ubuntu1.3	600.2 KIB	2022-03-29 05:12:27 AM UTC	FALSE

Note: This value specifies the local date and time at which reboot will be mandated on all endpoints. Logged-in users can postpone reboot on their machines until this date-time value is reached. A prompt will appear on the user's screen before initiating a reboot.

- **Remediation End Time:** Remediation will be completed at the specified time.

Create Patching Task

Task Controls

- Reboot Control
- Remediation End Time**
- Patching Notification
- Remediation Scripts
- Test and Deploy

Task Name: Apply missing patches

Remediation Schedule: custom date

Job execution date: 2022-07-18 11:45:AM

Remediation End Time: 02 / 01 / PM

Task Impact

- 1 Patch
- 2 Online
- 0 Offline

Assets Table

Asset	Version	Size	Last Update	Status
avahi-utis	0.7.3-1ubuntu1.3	24.1 KIB	2022-06-16 03:54:57 PM UTC	FALSE
bash	4.4.18-2ubuntu1.3	600.2 KIB	2022-03-29 05:12:27 AM UTC	FALSE
bind9		Unspecified	2022-06-27 06:42:21 AM UTC	FALSE

- Patching Notification: Give notification start message and notification end message so that you can be informed about the patching activity.

Create Patching Task

Task Controls

- Reboot Control
- Remediation End Time
- Patching Notification**
- Remediation Scripts
- Test and Deploy

Task Name: Apply missing patches

Remediation Schedule: custom date

Job execution date: 2022-07-18 11:45:AM

Notification Start Message: System patching activity is scheduled

Notification End Message: System patching activity is completed

Task Impact

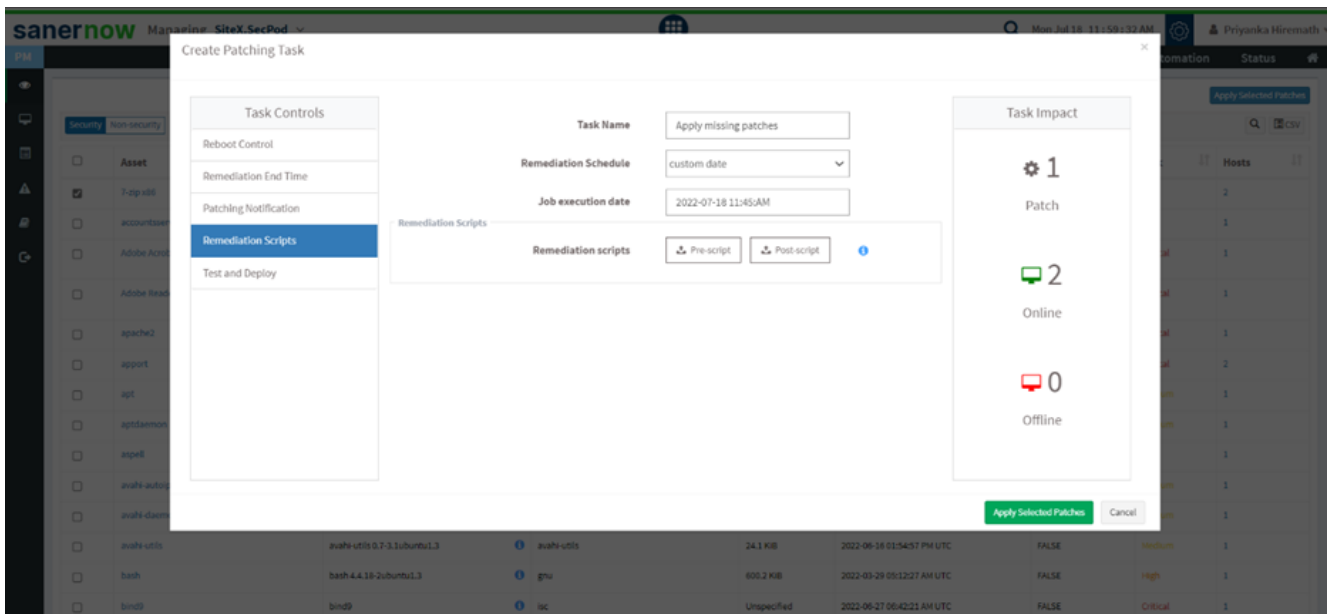
- 1 Patch
- 2 Online
- 0 Offline

Assets Table

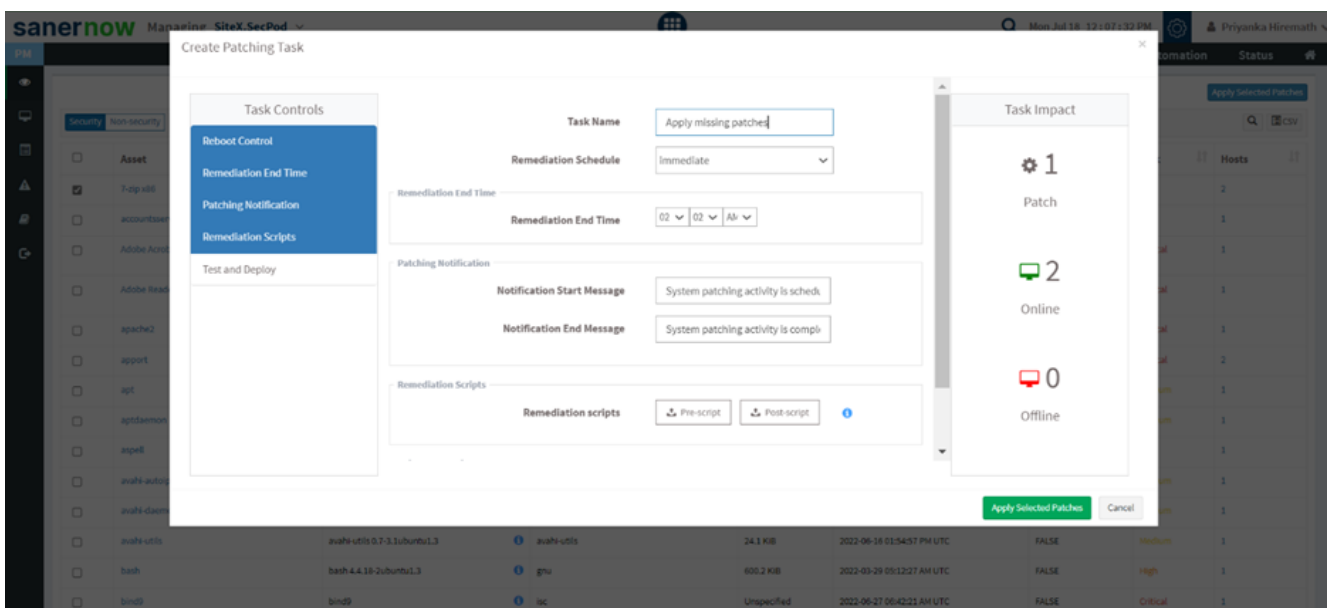
Asset	Version	Size	Last Update	Status
avahi-utis	0.7.3-1ubuntu1.3	24.1 KIB	2022-06-16 03:54:57 PM UTC	FALSE
bash	4.4.18-2ubuntu1.3	600.2 KIB	2022-03-29 05:12:27 AM UTC	FALSE
bind9		Unspecified	2022-06-27 06:42:21 AM UTC	FALSE

9. Remediation Scripts: You can upload pre-remediation scripts and post-remediation scripts in the given file formats.

- Windows: inf, reg, ps1, bat, exe, msi, msp
- Linux: sh, deb, rpm
- macOS: sh, pkg, dmg (pkg, app)



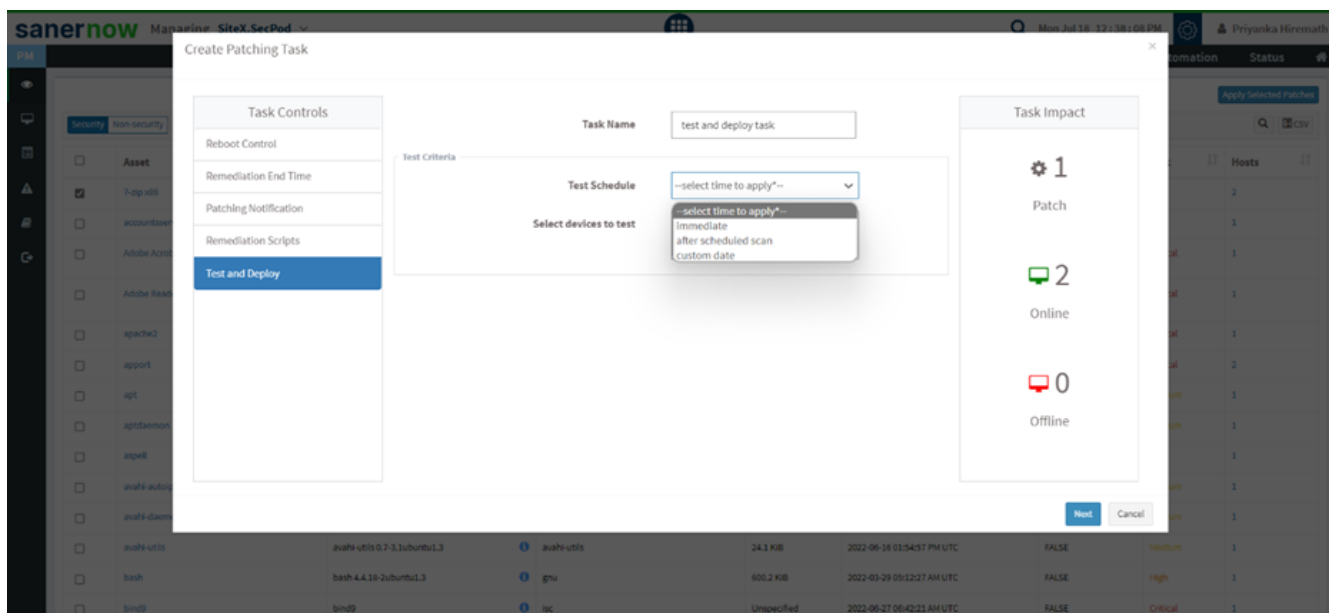
10. Click on **Apply Selected Patches**.



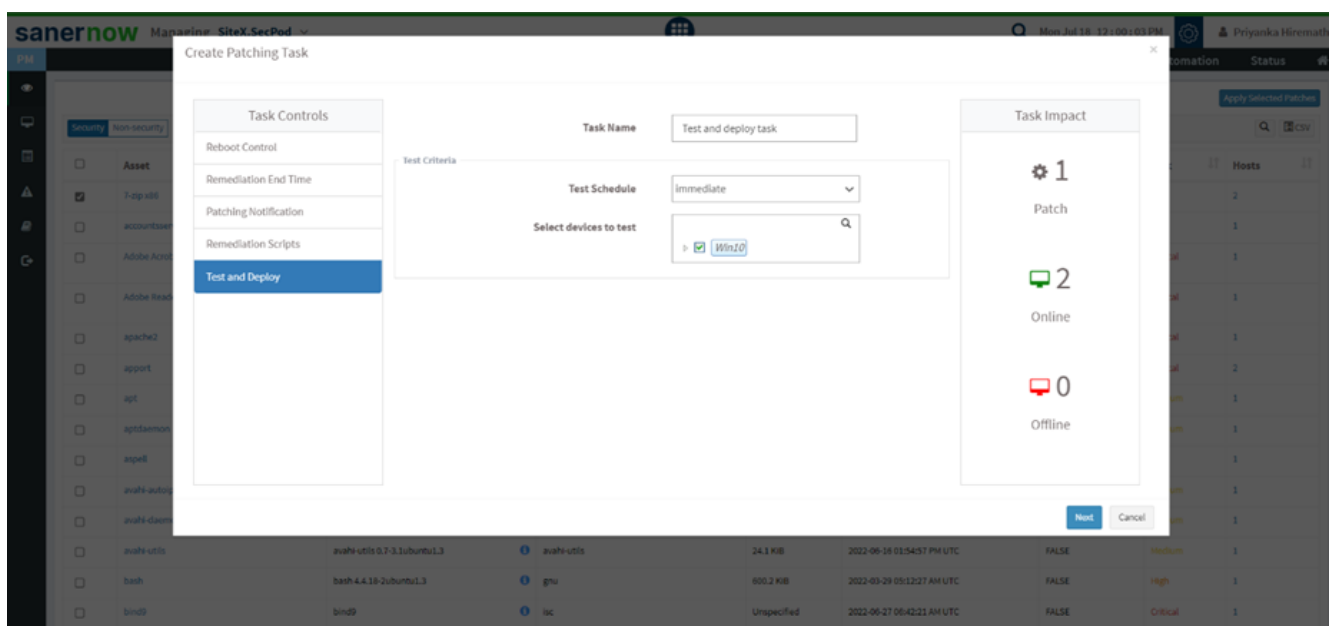
How to test and deploy Patches in SanerNow

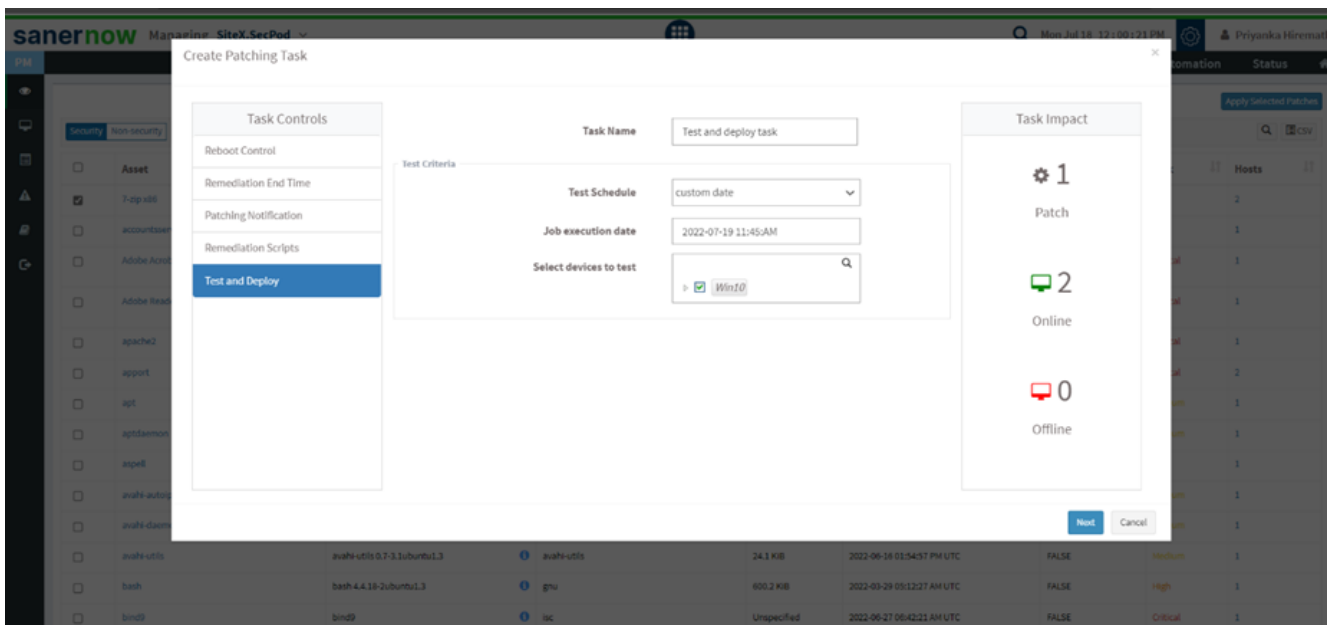
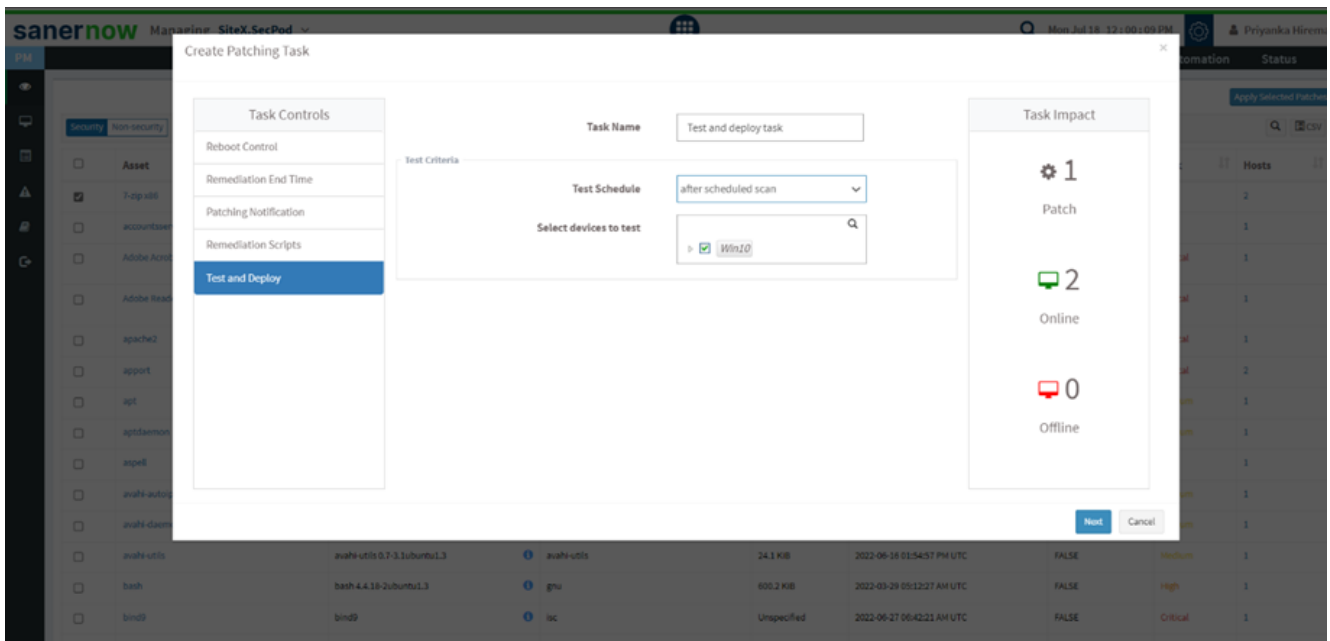
To deploy the right and compatible patches, SanerNow facilitates testing the patches before applying. Let us know how to test and deploy patches in SanerNow.

1. In create patching task window, click on **Test and deploy task controls**.



2. In **Test Criteria**, assign the task name and schedule the test immediately, after a scheduled scan, or on a custom date.

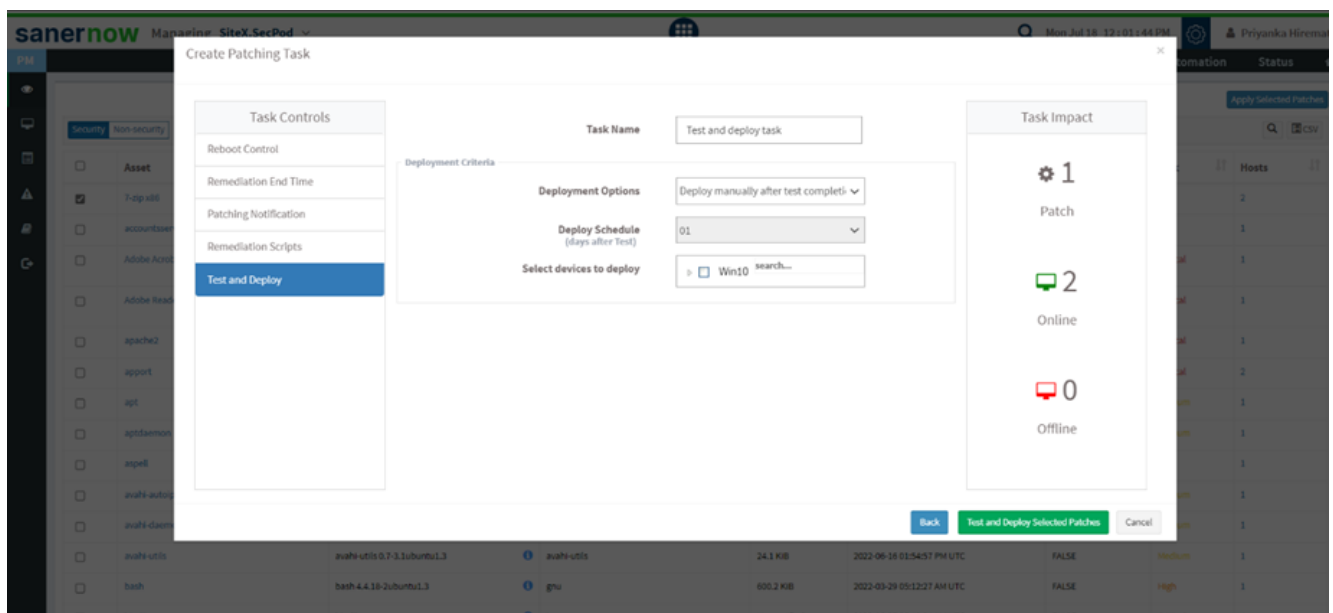




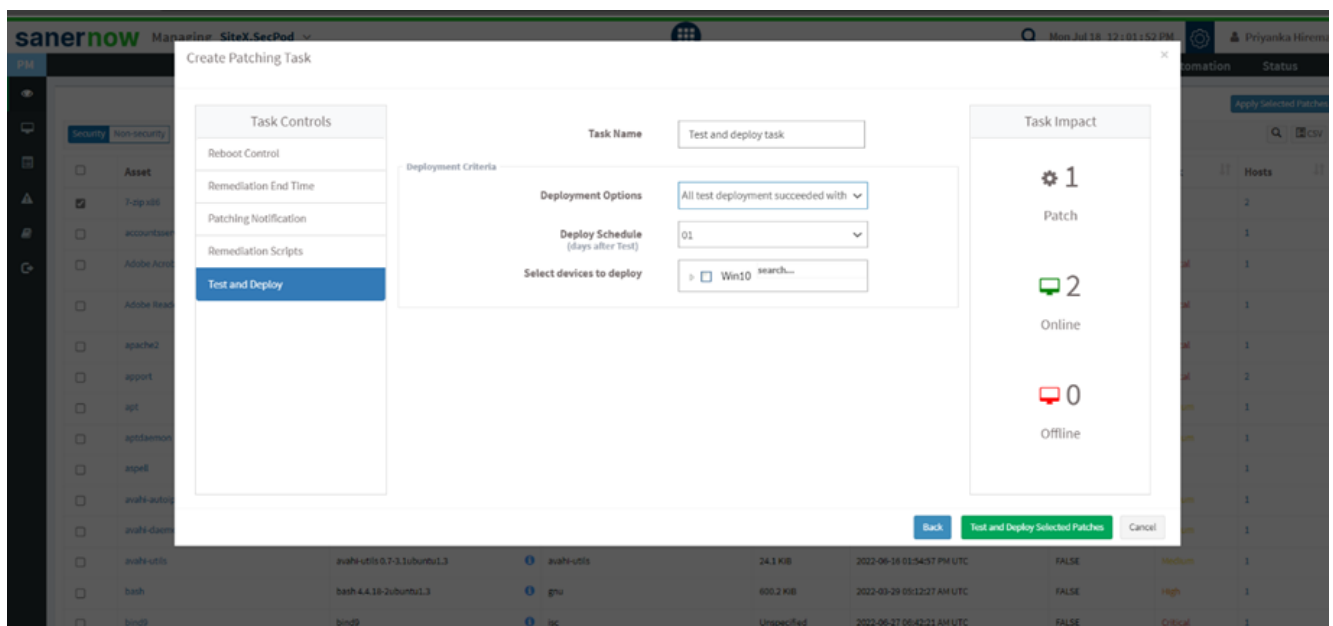
3. Now, select the devices to test the patches and click on **Next**.

4. In **Deployment Criteria**, you got three deployment options.

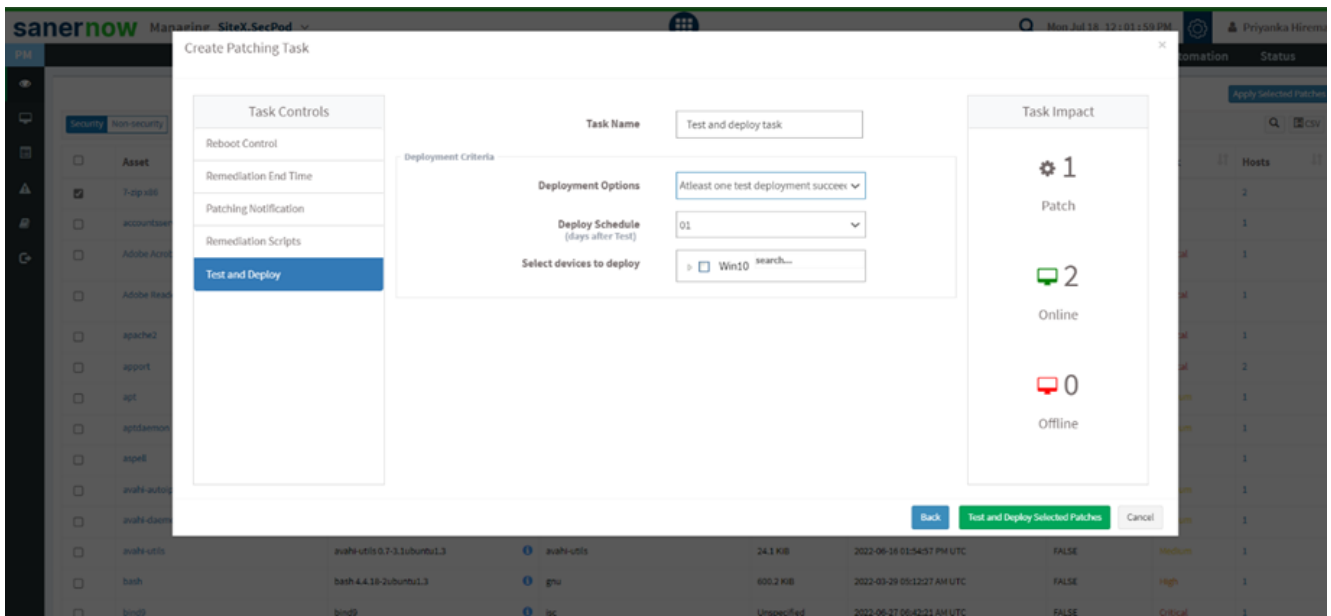
- **Deploy manually after test completion:** The patches are tested in a test environment and then manually deployed to a production environment.



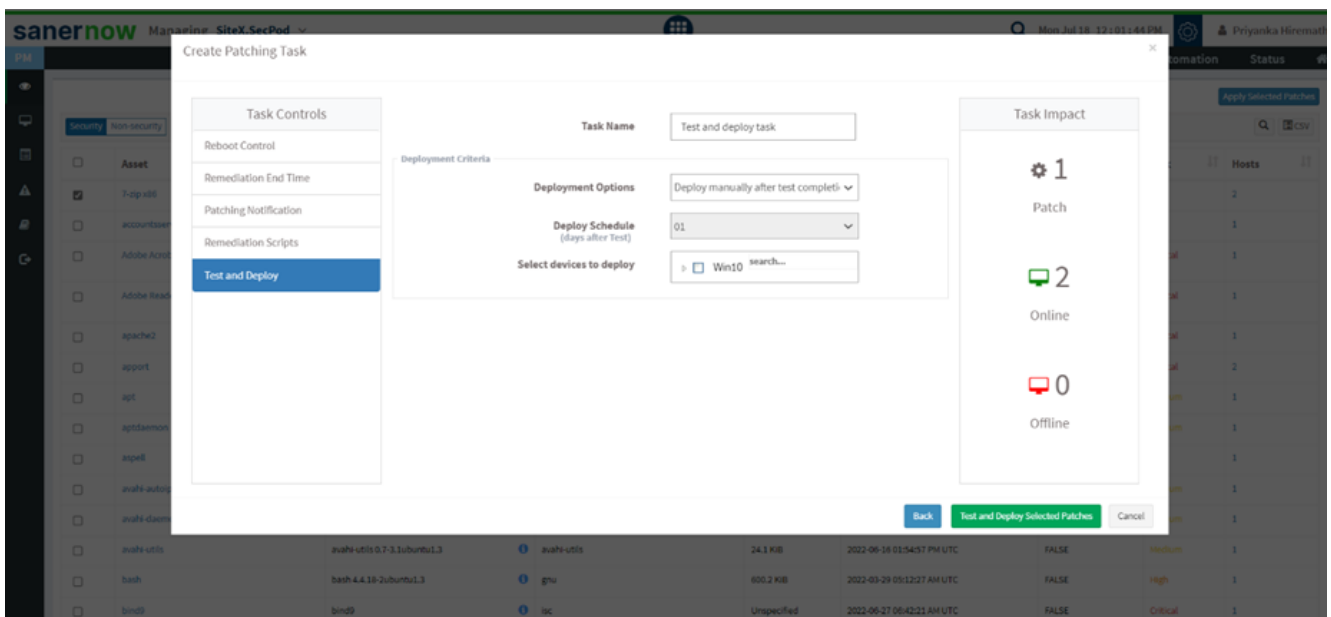
- **All test deployment succeeded with no failures:** This condition states that if all the patches in the test environment are successfully deployed with no failures, the patches are deployed in the production environment.



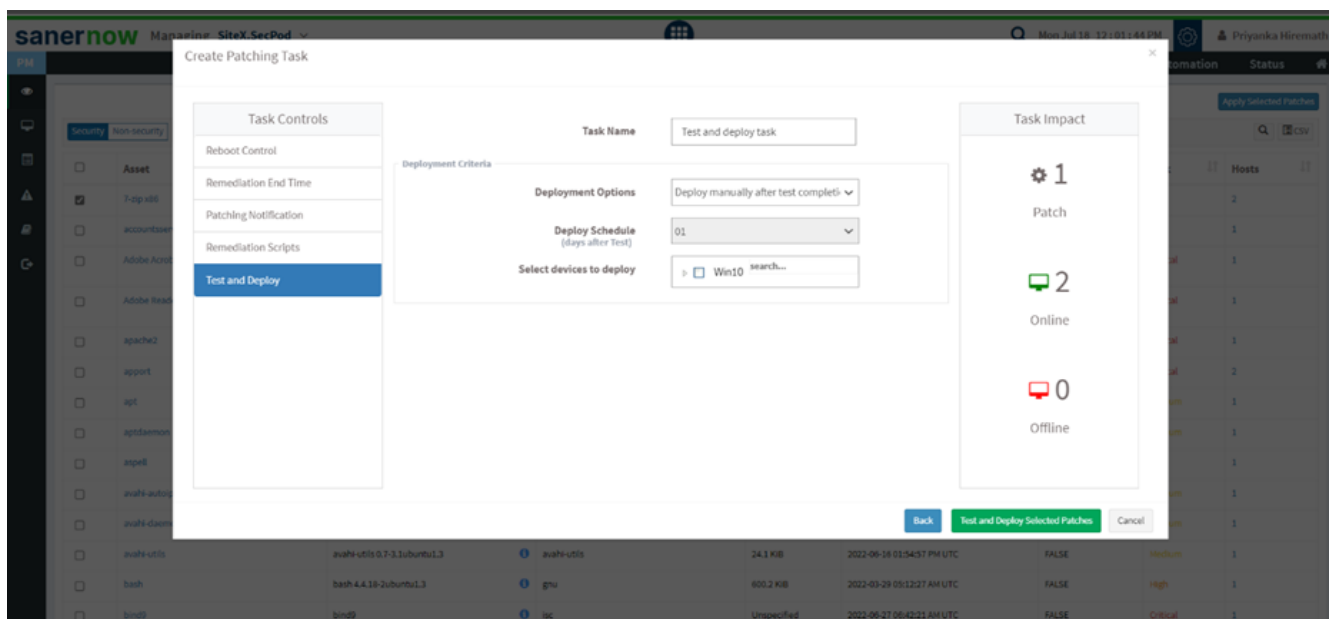
- **At least one test deployment succeeded with no failures:** In this condition, at least one system in the testing environment has successfully deployed the patches. Later, patches will be deployed in a production environment.



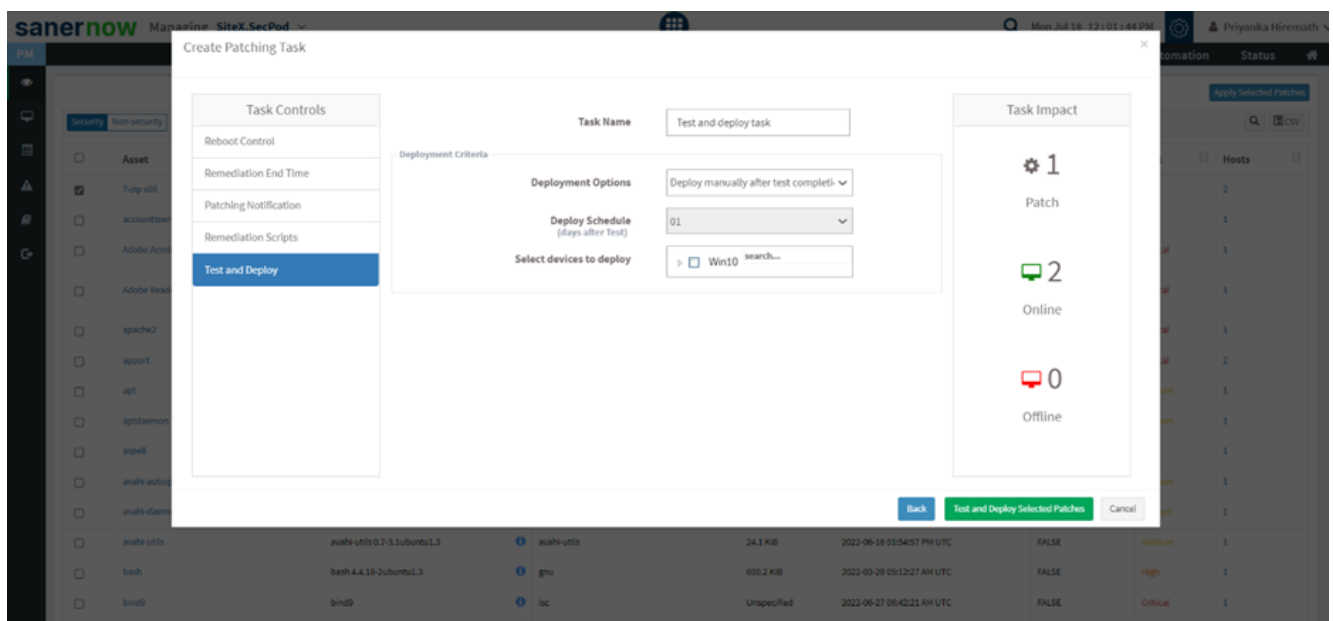
5. You can also schedule the patch deployment by selecting the number of days after the test is completed.



6. Now, select the devices to deploy.



7. Click on Test and Deploy Selected Patches.



You have successfully created a task to test and deploy missing patches.