

Moise Polycarpe (VC1C)  
[moisepolycarpe@gmail.com](mailto:moisepolycarpe@gmail.com)  
 Microsoft Intune Autopilot Deployment & implementation

**Time logs 10/14/2024 to 10/20/2024**  
 16 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
10/14/24	2.5 hours	Research	<p><b>***How to Generate Hardware Hash /import Windows 10 Intune Autopilot device?</b></p> <p><a href="#">Atera prevents problems before they happen... IT problems</a></p> <p><b>***READING* Manually register devices with Windows Autopilot.</b></p> <p><a href="#">Manually register devices with Windows Autopilot   Microsoft Learn</a></p> <p><b>*** Windows PowerShell prompt.</b></p> <p>The PowerShell script Get-WindowsAutopilotInfo.ps1 is used to gather hardware hashes and serial numbers of Windows devices, which are essential for registering devices with Windows Autopilot. This script can either save the hardware hash locally as a CSV file on devices that have already undergone Windows Setup and OOBE or directly upload the hash to a mobile device management (MDM) service like Intune for devices in the initial setup phase. By running the script through an elevated PowerShell session, it simplifies the process of collecting necessary device information for Autopilot deployment.</p>	<p><b>Challenges:</b> The writer encountered several problems with the PowerShell script before successfully getting it to work. One of the issues was needing to run Windows PowerShell with administrator privileges to resolve the script errors.</p>
		Source Code	<pre>New-Item -Type Directory -Path "C:\HWID" Set-Location -Path "C:\HWID" \$env:Path += ";C:\Program Files\WindowsPowerShell\Scripts" Set-ExecutionPolicy -Scope Process -ExecutionPolicy RemoteSigned Install-Script -Name Get-WindowsAutopilotInfo Get-WindowsAutopilotInfo -OutputFile AutopilotHWID.csv</pre> <p><b>***Verify the hardware hash uploaded</b></p> <p>To confirm the hardware hash for the device was uploaded into Intune and that</p>	

			<p>the device shows as a Windows Autopilot device:</p> <ol style="list-style-type: none"> <li>1. Sign into the Microsoft Intune admin center.</li> <li>2. In the Home screen, select Devices in the left-hand pane.</li> <li>3. In the Devices   Overview screen, under by platform, select Windows.</li> <li>4. In the Windows   Windows devices screen, under Device onboarding, select Enrollment.</li> <li>5. In the Windows   Windows enrollment screen, under Windows Autopilot, select Devices.</li> <li>6. In the Windows Autopilot devices screen, select Sync in the toolbar.</li> <li>7. Wait for the sync to finish. The sync might take several minutes.</li> </ol> <p>After the sync completes and the device appears in the device list in the Windows Autopilot devices screen in Intune, the device is ready for a Windows Autopilot deployment if a Windows Autopilot profile is assigned to the device.</p>	
10/15/24	1.5hour	Documentations	<ul style="list-style-type: none"> <li>• Windows PowerShell scripts committed to GitHub repository.</li> <li>• Time logs with reflection for the period of October 7<sup>th</sup> through October 13<sup>th</sup>.</li> <li>• Board Management tasks updated</li> </ul>	
10/15/24	2.5 hours	Troubleshooting Profile status	<ul style="list-style-type: none"> <li>• In this step, to provision computers, the profile status must be assigned. After troubleshooting the issue, it started working, and the status changed from "not assigned" to "pending," and then to "assigned."</li> </ul>	<b>Challenges:</b> The virtual machine was not uploaded to the Windows Autopilot devices, but after troubleshooting, the problem was resolved.
10/16/24	1hour	Troubleshooting Managmnt Setting checks list	<ul style="list-style-type: none"> <li>• Autopilot deployment profile</li> <li>• Company Portal</li> <li>• Licenses</li> <li>• Certificate connectors</li> <li>• Conditional access</li> <li>• Enrollment status page</li> <li>• Guest invitation settings</li> <li>• OneDrive</li> <li>• Self-service password reset</li> <li>• Update rings for Windows 10 or later</li> <li>• Windows Hello for Business</li> <li>• Windows apps</li> </ul>	<b>Challenges:</b> Technical issues caused these elements to fail. Troubleshooting is needed to resolve these problems, as they are crucial to the project's success.
10/17/24	1hour	Built a VM	<p>Built a second virtual machine with Windows 10 media on the VM and deleted it due to insufficient space.</p> <p>Steps:</p> <ol style="list-style-type: none"> <li>1. Name &amp; location</li> <li>2. Assign memory</li> <li>3. Configure network</li> <li>4. Connect virtual hard disk</li> <li>5. Installation option</li> </ol>	<b>Challenges:</b> I had to delete the second virtual machine built with Windows 10 media due to insufficient space on my laptop.
10/20/24	2.5hours	Board Management & GitHub	<ul style="list-style-type: none"> <li>• Tentative project management board schedule restructured due to troubleshooting issues.</li> </ul>	

		Repository Documentations	<ul style="list-style-type: none"> <li>PowerShell source codes committed to repository</li> <li>Virtual machine autopilot not assigned, pending, assigned</li> <li>Diagram</li> <li>Time logs &amp; reflection as well</li> </ul>	
10/19/24	3hours	Live presentation preparation completed	<p>What is autopilot?</p> <p>Why is autopilot important?</p> <p>Display diagrams, display management board, display Microsoft Intune Admin Center, and GitHub repository documentations of What are you trying to achieve for the semester, what have you worked on so far, what is the next task you'll work on.</p>	
10/20/24	2hours	Time logs & Reflection Documentation	Written time logs for the period of 10/14/24 to 10/20/24.	<p><b>Next:</b></p> <ul style="list-style-type: none"> <li>Deliverable: Presentation Slides (1st Draft)</li> <li>troubleshooting issues</li> <li>Create more resources</li> <li>Register Devices with Autopilot</li> <li>Assign devices to development profiles</li> <li>Configure Additional settings</li> </ul>

### Reflection

#### *What were your main goals in this time period?*

The primary goals for this period involved conducting research on generating hardware hashes and registering devices with Windows Autopilot. This included troubleshooting issues with virtual machine registration, managing Windows Autopilot profiles to ensure proper assignment of devices, and creating or deleting virtual machines to manage space constraints. Additionally, updating the GitHub repository with PowerShell scripts and project documentation was a key task. Another major goal was preparing for a live presentation that covered Autopilot's significance, configuration, and progress on the project.

#### *What were the main challenges during this phase? Were you able to meet the challenge, if so, what helped? If not, what could help?*

The main challenges during this phase included issues with running the PowerShell script needed to gather hardware hashes, which was resolved by using administrative privileges. There were also difficulties in uploading virtual machines to Windows Autopilot, which required troubleshooting to resolve. Technical failures occurred with certain Autopilot settings such as conditional access and device enrollment, requiring further investigation. Additionally, limited storage led to the deletion of a virtual machine, impacting progress. While these challenges were mostly overcome, further troubleshooting and increased storage capacity will be necessary in the next phase.