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Microsoft Intune Autopilot Deployment & implementation

Time logs 8/28/2024 to 9/4/2024
15 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
8/28/24	2 hours	Orientation	I reviewed the curriculum and put the due dates on my calendar app.	Challenges: Internet connectivity
8/29/24	0.5 hour	Orientation Quiz	Open book quiz regarding important due dates, calendar, etc.	Look for project and technical supervisor
8/30/24	1.5 hours	Outreach contacts	Reviewed the lists of people to contact and drafted up emails and sent it out. Sent out few emails. Heard back from both with positive answers.	Challenges: Feedback
8/31/24	4 hours	Reading	Reviewed all templates and submission criteria	
9/1/24	2 hours	Research	Project topics: Microsoft Intune Autopilot Deployment & Implementation.	Found Project & Supervisor. Next: Look up for resources
9/2/24	3 hours	Survey: Background Intake	I completed the Background Intake Survey in the hopes of being connected with any available possibilities.	
9/3/24	1 hour	Documen tation	Write out reflections on the time spent on the project so far, and prepare time log for submission	Block out dedicated project time in my calendar
9/4/24	0.5 hour	Survey: Project Proposal	Description entailing the project	Next: Project plan
9/4/24	0.5 hour	Reflection	Project goals, challenges occurred and project plans in progress	Next: Project plan

Reflection

What were your main goals in this time period?

During this period, my primary goals were to identify a meaningful project to work on and gather all the necessary resources and tools to ensure its success. This process involved researching potential opportunities and determining which projects aligned best with my skills and interests. To identify a suitable project, I had to establish connections with the right individuals or organizations, which required reaching out to various contacts, networking, and setting up meetings or discussions to explore potential collaborations. Additionally, I aimed to create a solid plan for managing my time effectively, balancing the demands of the project with other commitments, and ensuring that I was fully prepared to take on the

challenges ahead.

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

One of the main challenges during this phase was clearly defining the goals for the project, as it required not only a deep understanding of the project's scope but also aligning these goals with the resources available and the timeline. Despite the difficulty, I was able to meet this challenge by dedicating time to thorough planning and ensuring that every step was carefully executed. Consistency in progress was key; by staying focused and regularly assessing my work, I was able to keep the project on track. Additionally, logging the time spent on each task provided valuable insights, allowing me to measure my progress and adjust as needed. This disciplined approach helped in maintaining momentum and ultimately achieving the project's overall goals.

Time logs 9/5/2024 to 9/16/2024

15 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
9/5/24	1 hour	Survey: Project Proposal	Background Information, Project Metadata, and Project Overview are all partially answered questions.	Next: Survey continuation
9/6/24	1 hour	Survey: Project Proposal	Core Project Details, Supplementary Project Details, Project Technical Details are all partially answered questions.	Next: Survey continuation
9/7/24	1 hour	Survey: Project Proposal	Product and Project Management, Constraints and Technical Debt, Closing Section are all partially answered questions.	
9/9/24	1 hour	Submission Review	Proposal survey submitted	Next: Diagrams assignment
9/10/24	1 hour	Diagrams	Project Title, Contact Information, Supervisor, Abstract, Tools list the components you need to work on your project, such as software, hardware and their versions.	Diagrams assignment continuation
9/11/24	2.5 hours	Diagrams research	Designs and plans for the technical implementation	
9/12/24	1.5 hour	Data sources	Data sources: Datasets and data sources for a Microsoft Intune Autopilot deployment and implementation project with a primary focus on device configuration and administration	
9/13/24	1 hour	Use cases	Scenarios where the system will be applied, demonstrating automation, security enforcement, and efficient device management through the Intune platform.	
9/14/24	2 hours	Tentative schedule	Create an efficient and flexible schedule for the project such as phases, timeline duration for each week, responsible party and	Next: Reflections

			description.	
9/15/24	2 hours	Reflection & Time logs	Write out reflections on the time spent on the proposal survey and prepare time log for submission.	
9/16/24	1 hour	Submission Review	Diagrams assignment and time logs	Next: Project Progress Survey

Reflection

What were your main goals in this time period?

During this time, the main objectives were to finish the Survey project proposal questionnaire, complete the diagrams assignment, and efficiently keep time logs. Every goal sought to improve output quality, skill development, and productivity in a range of duties. The first task was to complete the Survey project proposal questionnaire, which necessitated thorough investigation and a precise explanation of the significance, methods, and goals of the proposed study. The second objective was finishing the project on diagrams, which required making thorough activity diagrams using the right modeling tools to adequately depict software application operations. It was necessary to pay close attention to details and comprehend both the technical standards and the user experience for this work. The ultimate objective entailed keeping meticulous time logs to monitor tasks related to work and evaluate production levels. The goal of this technique was to increase individual productivity and project management efficiency by assisting in the identification of patterns, the detection of inefficiencies, and the making of data-driven decisions on time management. All these objectives worked together to improve output quality, build skills, and increase productivity in a variety of tasks.

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

During this phase, the main challenges centered around the complexity and volume of questions in the proposal survey, which required extensive thought and research for accurate responses. The time-consuming nature of the research requirements added to the difficulty. Despite these obstacles, the challenges were successfully met through strategic approaches, primarily by repeatedly reading the questions to ensure deep understanding and conducting thorough research on each topic. Various resources, including academic papers, online databases, and peer discussions, proved beneficial in acquiring the necessary information. While the challenges were ultimately overcome, areas for improvement were identified, such as allocating more time for initial readings, creating structured outlines before answering questions, and collaborating with peers or mentors early on. These strategies could enhance efficiency and effectiveness in future proposal developments, contributing to both personal growth and improved project outcomes.

Time logs 9/16/2024 to 9/23/2024

22 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
9/16/24	1.5 hour	Project Progress Survey	Version Control Repository, Project Management Board, Time log, Miscellaneous	Encountered difficulties with formatting the GitHub README file and learned how to effectively manage my Trello account for organizing tasks on the project management board.
9/17/24	0.50 hour	Schedule Meeting	Scheduled live presentation demo meeting with Professor Katherine Chuang for 10/21 @8:10AM.	Set up GitHub repository, create a README file
9/17/24	2.5 hours	GitHub repository	Created my GitHub repository and made it public. Also created the README file.	Set up Trello management board
9/17/24	1.5hours	Tello board set up	I set up a Trello board to help track my intended tasks and goals for my semester project. This board allows me to organize all project-related activities into different phases, such as planning, execution, and completion, while monitoring progress in real time. Each task is assigned specific deadlines, making it easier to stay on schedule. Additionally, I've used labels and checklists to categorize tasks and track their status, ensuring I stay organized and focused throughout the project's lifecycle. This setup will aid in better task management and goal achievement.	
9/18/24	2 hours	Research study	How to make a README 101(A README is a text file that introduces and explains a project. It contains information that is commonly required to understand what the project is about.)	
9/19/24	2 hours	Meeting with supervisor	Discussed the project management board flow, README file, and project plan with the supervisor. **FEEDBACK:** He has offered suggestions on improving the project management board flow, enhancing the clarity of the README file, and refining the project plan.	Next meeting with supervisor scheduled for 9/21/24
9/2024	2hours	Slides	• Project Progress Survey slides such as updated slides showing links to GitHub repository and project management and screenshots. • Schedule Live Demo	
9/21/24	0.5 hour	Repository commits	Created the source code repository for the project and made the first few commits. The repository is at: < https://github.com/error404progtech/Intune-Autopilot.git>.	

9/21/24	2.5hours	Trello Board organization	I have added and organized all past and current tasks in my Trello management board by creating three main columns: **To Do**, **Doing**, and **Done**. The "To Do" column lists all upcoming tasks that need to be started, while the "Doing" column contains tasks currently in progress. The "Done" column is for completed tasks. Each task includes due dates, labels for categorization, and checklists to ensure that every step is covered. This structure keeps the project well-organized and helps me efficiently track and manage progress.	
9/21/24	0.5 hours	Meeting with Supervisor	Applied the feedback from the supervisor into the GitHub repository and Trollo board.	Next: Research, reflection, time logs, documentations
9/22/24	2.5 hours	Research study	Learned how to create folders, add a file, delete a file into GitHub repository.	
9/22/24	1 hour	Reflection	Write out reflections on the time spent on the project so far, and prepare time log for submission	
9/22/24	2 hours	Time logs	Time logs for the period of Time logs from 9/16 to 9/23 were 22 hours accumulated in this period	
9/22/24	0.5hours	Docu-mentation	Time logs for the following periods uploaded into GitHub repository. 1. 8/28/24 to 9/4/24 2. 9/5/24 to 9/16/24 3. 9/16/24 to 9/23/24	Review
9/23/24	1hour	Review before submission	Review the project progress survey to ensure all relevant sections are covered, including updated slides that display links to both the GitHub repository and project management board. Be sure to include screenshots of these, ensuring that the links and boards are publicly accessible. Additionally, examine the time logs to verify they accurately reflect my project work, and review any personal reflections or notes related to the project's development and my learning experiences. This will ensure a comprehensive and well-documented presentation of the project's progress.	

Reflection

What were your main goals in this period?

During this period, my primary objectives were to complete essential tasks like the Project Progress Survey, which included multiple key components such as the Version Control Repository, Project Management Board, Time Logs, and other miscellaneous elements. Additionally, I successfully finished updating slides that highlighted links to both the GitHub repository and project management board, accompanied by screenshots. I also scheduled

important activities, including live demos and meetings with my supervisor to ensure the project remains on track and properly documented. These steps contributed to the project's structured progress.

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

The main challenges during this phase involved formatting the GitHub README file and effectively organizing tasks in my Trello project management board. Navigating the markdown syntax and ensuring proper structure in the README was a bit tricky, but I managed to overcome it by researching best practices. In terms of Trello, I had to figure out how to categorize tasks efficiently to stay on track. What helped was utilizing online resources and tutorials. However, additional guidance on formatting complex README elements and better time management techniques could further improve these areas.

Time logs 9/23/2024 to 9/30/2024

17.25 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
9/23/24	1hours	Tentative schedule/ Project preparation	Ensure Licensing: Verify I have the appropriate Microsoft 365 or Enterprise Mobility + Security (EMS) licenses that include Intune. • Set Up Intune: Make sure Microsoft Intune is set up and configured in your Microsoft Endpoint Manager admin center. • Collect Device Information: Gather information about the devices you plan to enroll, such as hardware IDs.	

9/23/24	4hours	Reading	Tutorial: Set up and configure a cloud-native Windows endpoint with Microsoft Intune. Phase 1 – Set up the environment • Step 1 - Network requirements • Step 2 - Enrollment and Licensing • Step 3 - Import your test device • Step 4 - Create Microsoft Entra dynamic group for the device • Step 5 - Configure the Enrollment Status Page • Step 6 - Create and assign the Windows Autopilot profile Step 7 - Sync Windows Autopilot devices • Step 8 - Configure settings for an optimal Microsoft 365 experience • Step 9 - Create and assign some applications.	**Challenge:** The main challenge faced was that the reading material was quite dense and required a significant amount of time to fully grasp. However, as I worked through the steps, gaining a deeper understanding of the concepts and how they are applied in practice, the process became enjoyable. Breaking down complex information and gradually applying it to real-world scenarios provided a rewarding experience, making the effort worthwhile. It was fulfilling to see how theoretical knowledge could be translated into practical solutions.
9/24/24	2hours	Implementation of the above reading	• Created Microsoft Entra dynamic group for the device • Configure the Enrollment Status Page • Create and assign the Windows Autopilot profile	
9/26/24	2hours	Continue Implementation of the reading	• Configure settings for an optimal Microsoft 365 experience (Microsoft Outlook, Microsoft Edge, Microsoft OneDrive) • Create and assign some applications. For instance, I deployed some apps such as DC Browser, Microsoft 365 Apps for windows 10 and later, and Mozilla Firefox.	**Next:** 1st Demo Recording preparation
9/27/24	1hour	1st Demo Recording questions preparation	Prepare a 2–5-minute video recording. Suggestions on items to describe in your demo: • Design documents: Design documents may include preparing sketches diagramming data flow, programming logic flow, user interfaces, etc. • Project Management Board - how is it set up? • Version Control Repository - how often do you commit? do you have any organization schemes for your repository? • Overview of design documents, including changes since initial draft • Prototype showing initial implementation of your design ideas • Updates to your Project Management Board since the beginning of the semester	**Challenge:** The primary challenge I faced while preparing for the first demo recording was uncertainty about which software would best meet the requirements for uploading the demo. I needed to ensure that the chosen software would be compatible with the platform and easy to use. Additionally, I was concerned about preventing potential errors, such as broken links leading to 404 or 403 error codes. This meant verifying the link's accessibility and reliability before final submission to avoid any issues during the presentation or review process.

			• Updates to your Version Control Repository since the beginning of the semester	
9/28/24	2 hours	Meeting with the supervisor	The meeting recap with my supervisor primarily focused on discussing the reading materials and the progress I made implementing the necessary features within the Microsoft Intune admin center. We reviewed the key concepts I had covered, including how they translated into practical configurations and deployments in Intune. The conversation also highlighted areas where additional attention might be needed for smoother deployments, as well as strategies for optimizing the existing setups. Overall, the meeting provided valuable feedback on both the theoretical and practical aspects of the project.	
9/29/24	0.75hours	Record the 1sr demo	This first demo recording displays the progress made in the Microsoft Intune Autopilot Deployment and Implementation project. It also highlights the project management board, which monitors all past, ongoing, and upcoming tasks. Additionally, the recording reviews the GitHub repository containing all relevant documents.	**Challenges:** One of the challenges I encountered was learning how to record and download video or audio clips using Microsoft Teams. For this first demo recording, I utilized Microsoft Teams' recording feature. Before the final recording, I practiced answering some of the assigned questions, which primarily focused on the project management board, the GitHub repository, and the platform used for my project—Microsoft Intune Admin Center. Additionally, I rehearsed my responses to ensure that I could stay within the 5-minute time limit.
9/29/24	1.5hour	Reflection Docu-mentations	As I reflect on the time spent on the project so far, it's clear that significant progress has been made. From setting up foundational components like Microsoft Intune Autopilot deployment to understanding how to configure cloud-native environments, each task has been critical to the overall success of the project. Alongside technical implementations, keeping an accurate time log has proven essential in tracking every stage of progress. Preparing the time logs for submission will include detailed documentation of each task, helping to assess productivity and streamline future steps. In these logs, I will record the duration and nature of each task, including any challenges encountered and the solutions applied. This time log not only demonstrates my commitment to the project but also helps in identifying areas where improvements can be made.	

9/29/24	2hours	Time logs Documentations	The time logs from *September 23rd to September 30th, 2024*, provide a comprehensive reflection of all the tasks and activities completed during this period. These logs document the key milestones achieved, such as implementing features in Microsoft Intune, configuring settings, addressing deployment challenges, and updating project-related documents. Each entry details the specific work done on a given day, helping track progress while ensuring that the project remains aligned with the planned schedule. Additionally, these logs offer insights into the time spent on each task, which can inform future planning and optimizations.	
9/30/24	1hour	1st Demo Recording and Time logs Due	Before submitting the project, I thoroughly reviewed all key elements, including time logs, reflections, demo recordings, and GitHub documentation. This review process ensured that all activities and progress were accurately documented and organized. Additionally, I cross-checked the tasks on the project management board to confirm that each task was properly tracked, updated, and completed. Ensuring everything was aligned helped streamline the final submission process.	**Next steps** • Continue readings • Implementations • Deployments • CISC 4900 Live Presentation

Reflection

What were your main goals in this period?

During this period, my primary focus was the successful deployment and setup of Microsoft Intune Autopilot. This required ensuring that appropriate Microsoft 365 or EMS licenses were verified and fully operational. Configuring Intune within the Microsoft Endpoint Manager was also a critical part of the process, involving the collection of device information and setting up necessary profiles for deployment. These preliminary steps were essential to lay the foundation for the actual deployment phase of the project.

In addition to these technical implementations, I dedicated significant time to understanding cloud-native Windows endpoint configurations. This was a critical knowledge-building exercise, and completing this reading helped advance the project by providing context and technical insights essential for successful deployment.

Apart from the technical elements, I also focused on administrative tasks such as keeping my project management board updated, tracking my progress in the "To Do," "Doing," and "Done" sections, and preparing the first demo recording. Documenting time logs for all the activities performed during this period and reflecting on my learning process were equally important tasks that ensured the overall structure of the project remained organized.

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

The primary challenge I faced during this period was the sheer volume of reading material. The content was dense and required careful attention to detail, making it a time-consuming process. However, I tackled this issue by breaking the readings into smaller, manageable sections, allowing me to better understand the complex concepts in incremental steps. This approach transformed the reading from a burden into an engaging learning experience as I could immediately apply the knowledge to practical tasks.

Another key challenge was in preparing the first demo. I was uncertain about which software would best meet the requirements for recording and uploading the demo to ensure smooth viewing and prevent issues like 404 or 403 error codes. To overcome this, I researched and tested several options to confirm that the software I selected would produce a link that worked seamlessly, eliminating any potential technical glitches during the review process.

As I navigated through these challenges, I realized that they were instrumental in preparing me for the next steps. The combination of theoretical learning and practical implementation helped solidify the foundation of my project. Furthermore, the ongoing process of documentation, reflection, and organizing my tasks on the project management board has proven to be highly effective for tracking progress and keeping the project aligned with my initial goals.

Moving forward, the focus will shift toward further configuring applications within Microsoft 365, preparing for additional testing, and recording the second demo. The administrative tasks will continue, with regular updates to the project management board, version control repository, and documentation to ensure that all aspects of the project remain synchronized. This ongoing process of reflection, planning, and implementation will streamline the final phases of the deployment and ensure that the project stays on track for successful completion.

Time logs 9/30/2024 to 10/6/2024

15.5 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
9/30/24	1.50hour	Meeting with supervisor	The meeting primarily focused on outlining what to expect in the next phase of the project. We discussed the upcoming tasks related to the continued implementation and deployment process. Many of these tasks are complex and will require significant time to thoroughly read and understand	**Next steps:** 1. Reading day 2. Update management board and GitHub repository 3. Implementation 4. Meeting with

			the relevant materials. Additionally, we reviewed the tentative schedule to ensure that deadlines are realistic, considering the effort needed for in-depth research and execution. Moving forward, we emphasized the importance of staying organized and proactive in managing time to meet the milestones outlined for this phase of the project.	supervisor 5. Complete time logs for this period.
10/1/24	1 hour	Documentation	Updating all new tasks to my management board and GitHub repository for the week of 9/30/2024 to 10/6/2024.	
10/2/24	4 hours	Reading	Secure your cloud-native Windows endpoint • Microsoft Defender Antivirus (MDAV) • Microsoft Defender Firewall • BitLocker Encryption • Windows Local Administrator Password Solution (LAPS) • Security baselines	
10/3/24	2 hours	Implementations & deployments	• Microsoft Defender Antivirus (MDAV) • BitLocker Encryption • Windows Local Administrator Password Solution (LAPS)	**Challenge:** During this period, the writer has encountered some issue while implementing the Microsoft Defender Antivirus.
10/3/24	2hour	Meeting with supervisor	During this meeting, we discussed the feedback provided by the professor regarding the first demo recording. The feedback highlighted areas for improvement, and we drafted an email seeking further clarification on specific points to ensure that we address the concerns thoroughly. Additionally, we reviewed the progress made so far, particularly focusing on the successful implementation of key security features such as Microsoft Defender Antivirus (MDAV), BitLocker Encryption, and the Windows Local Administrator Password Solution (LAPS). This review helped identify any areas that might need further adjustments or refinements as we move forward with the project. The conversation also emphasized the importance of refining future demos to align more closely with the professor's expectations.	
10/4/24	2 hours	Reading	Windows Update for Business Update rings for Windows 10 and later policy in Intune 1. Prerequisites 2. Create and assign update rings 3. Manage your Windows Update rings 4. Validation and reporting	
10/4/24	0.25 hours	Research presenting sample use cases	Professor Katherine Chuang suggested" I recommend presenting sample use cases. Perhaps you can walk us through an example end to end of deploying sample apps? Time logs should show hours accumulated since the beginning of the semester. For future time log submission please include all hours since beginning of the semester". Student has resubmitted all time logs as requested and taken the professor's feedback into consideration for future demo recordings and live presentations.	

10/4/24	1.5hours	Implementations & deployments	Windows Update for Business • Create and assign update rings • Manage your Windows Update rings The policy actions for managing Windows Update rings in Intune allow you to delete, pause, or resume updates. Deleting an update ring stops Intune from enforcing its settings, but devices retain their current configurations and can still receive updates from other active rings. Pausing a ring halts feature or quality updates for up to 35 days, after which updates automatically resume unless paused again. Resuming a paused ring restores updates for the selected ring. These actions are applied when devices check in with Intune, though scheduled updates may still install beforehand.	**Challenge:** During this time, I encountered issues while implementing Windows Update for Business, which is a cloud-based solution for managing how and when updates are installed on devices. In Microsoft Intune, Windows Update for Business can be configured through Windows update rings and Windows Feature Updates. The challenge involved setting up these configurations properly to ensure seamless update delivery across all devices, while maintaining control over update timing and preventing disruptions in operations.
10/5/24	0.50 hour	Reflection For this period	Write out reflections on the time spent on the project so far and prepare time log for submission.	
10/6/24	0.75 hours	Time logs	Write out reflections on the time spent on the project so far, and prepare time log for submission	**Next steps** • Continue readings • Implementations • Deployments • CISC 4900 Live Presentation

Reflection

What were your main goals in this period?

During this period, the main goal was to advance the Microsoft Intune Autopilot Deployment and Implementation project by focusing on several key tasks. These included implementing Windows Update for Business by configuring and managing update rings, successfully deploying security features such as Microsoft Defender Antivirus (MDAV), BitLocker Encryption, and Windows Local Administrator Password Solution (LAPS), and updating the project management board with all relevant tasks while adjusting schedules to ensure steady progress. Additionally, I addressed feedback from the first demo recording and planned improvements for future presentations. The overall objective was to solidify the technical aspects of the deployment and security implementation while keeping the project on track.

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

The main challenges faced during this period included configuring Microsoft Defender Antivirus (MDAV) to meet security requirements, which involved troubleshooting and testing to ensure compatibility with the system's existing protocols without compromising endpoint security. Additionally, implementing Windows Update for Business was complex, particularly in configuring update rings and managing Windows Feature Updates through Intune, requiring careful validation to avoid operational disruptions. Despite these challenges, I was able to overcome most of them through extensive research, testing, and support from regular meetings with my supervisor. These discussions provided insights and led to a clarifying email to the professor. Following a structured approach and documentation helped manage the configurations for Windows Update for Business. Moving forward, dedicating more time to pre-implementation testing and exploring advanced Intune configurations could help avoid similar challenges during deployment.

Time logs 10/7/2024 to 10/13/2024
16.5 hours accumulated in this period

Date	**Duration**	**Type**	**Description of completed work**	**Challenges and/or Next steps**
10/7/24	0.5 hour	Professor's feedback	The writer reviewed the feedback from the project proposal and will ty to adjust according to the professor's feedback.	
10/8/24	2 hours	Material reading	• Update rings for Windows 10 and later policy in Intune • Feature updates for Windows 10 and later policy in Intune • Limitations for Feature updates for Windows 10 and later policy • Create and assign Feature updates for Windows 10 and later policy • Manage your Windows Update rings (Manage Feature updates for Windows 10 and later policy)	
10/9/24	1.5 hours	Live Presen-tation preparation research.	The writer reviewed and prepared some of the questions such as the following for the live presentation. • Diagrams such as your system's data flow, programming logic flow, user interfaces, etc. • Project Management Board • Version Control Repository • Diagrams, including any changes made since initial draft • Prototype showing initial implementation of your design ideas • Updates to either your Project Management Board or VCS repository since the beginning of the semester.	
10/9/24	1.5hours	Implemen-tation of above readings	• Create and assign Feature updates for Windows 10 and later policy • Manage Feature updates for Windows 10 and later policy	

			• Create two additional groups for each Windows called. 1. Windows 10 Features updates 2. Windows Upgrade 11 Also created two security groups for Windows 10 Features updates and Windows Upgrade 11	
10/10/24	1.5 hours	Research	Watched several YouTube videos to learn How to Create Free Virtual Machine on Hyper-V with Free Windows 11.	**Challenges:** The steps to were durable and understandable until the Download Windows 11 Disk Image (ISO) for x64 devices. It turned out his feature is not available for downloading yet on the Microsoft website.
10/13/24	0.5 hours	Draft an e-mail to the professors	Dear Professors Chuang & AJ, I am writing to seek clarification regarding the upcoming live presentation. My name is Moise Polycarpe, and my Zoom meeting is scheduled for October 21st at 8:10 AM. Am I expected to record a 10-minute video explaining the points listed below, or will you be simply asking me questions during the presentation? "During the middle of the semester, you will be responsible for explaining your design documents and demonstrating your work in progress in real time over Zoom. Your presentation time slot will be 10 minutes long, during which you will present your demo and have a Q&A. Items to show during your presentation can include: **• Diagrams such as your system's data flow, programming logic flow, user interfaces, etc.** **• Project Management Board** **• Version Control Repository** **• Diagrams, including any changes made since the initial draft** **• Prototype showing the initial implementation of your design ideas** **• Updates to either your Project Management Board or VCS repository since the beginning of the semester."** Additionally, I noticed the reminder announcement and wanted to confirm whether I have missed submitting any required deliverables.	

10/13/24	0.5hours	Research	Watch a YouTube video about Windows Autopilot Fundamentals in Intune.	Next: Build a virtual machine using Windows 10.
10/13/24	3hours	Research	Watched a YouTube video to learn How to Create Free Virtual Machine on Hyper-V using Windows 10 since windows 11 was not successful in the previous attempts. Create a virtual machine • Specify Name and Location • Specify Generation • Assign Memory • Configure Networking • Connect Virtual Hard Disk • Installation Options Create Windows 10 installation Media Installing Windows 10 on virtual machine	
10/13/24	1.5hours	Update Board management & GitHub repository	All completed tasks for this period have been updated and documented on all platforms.	
10/13/24	2hours	Time logs & Reflection	Write out reflections on the time spent on the project so far and prepare time log for submission.	
10/13/24	1.5hours	Meeting with supervisor	This meeting was held due to many challenges during implementation of the reading and while also creating a virtual machine using installing windows 11 occurred during this period.	**Next:** • How to Generate Hardware Hash /import Windows 10 Intune Autopilot device? • 10/21 - Live Presentation • 10/28 - Deliverable: Presentation Slides (1st Draft)

Reflection

What were your main goals in this period?

The primary goals during this period centered on progressing the implementation and deployment of key components, specifically setting up Windows Update policies and creating feature update rings within Microsoft Intune. This was a crucial step in ensuring that devices are regularly and efficiently updated according to organizational needs. Another significant goal was preparing thoroughly for the upcoming live presentation. This included reviewing and refining materials such as diagrams for data flow, programming logic, and system interfaces, along with making sure the project management board and version control repository were up-to-date. Additionally, I focused on setting up virtual machines on Hyper-V, which was essential for testing various configurations. Finally, updating the project management board and the GitHub repository with completed tasks ensured that everything was well-documented and ready for review. A key part of this phase was responding to feedback from my professors, seeking clarification on certain aspects of the presentation, and ensuring that I addressed all concerns thoroughly to avoid future delays.

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 most significant challenges encountered were technical in nature, primarily related to setting up a Windows 11 virtual machine. The Windows 11 ISO download, which is required for the installation, was unavailable, posing a major obstacle in the virtual machine creation process. To overcome this, I shifted my focus to setting up a Windows 10 virtual machine instead, which allowed me to continue with the testing and development processes. This workaround enabled me to make progress, although it was not the ideal solution I initially intended. Another challenge was configuring the Windows Update rings, which required in-depth research and precise adjustments to ensure smooth deployment and update management.

Addressing these challenges required a combination of research, watching tutorial videos, and tapping into available online resources. Regular meetings with my supervisor also played a key role, as they provided guidance and helped clarify some of the technical difficulties.

Additionally, I reached out to my professors to ask for further clarification on expectations for the live presentation, which helped alleviate uncertainties. Though I was able to overcome most challenges during this period, future obstacles could be minimized by allocating more time to troubleshooting potential issues before they arise and ensuring that I stay updated on software releases and available resources. This would allow for smoother transitions during critical phases of implementation and development.

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	***How to Generate Hardware Hash /import Windows 10 Intune Autopilot device? Atera prevents problems before they happen... IT problems ***READING* Manually register devices with Windows Autopilot. Manually register devices with Windows Autopilot | Microsoft Learn *** Windows PowerShell prompt. 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	**Challenges:** 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.

		Source Code	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. 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 ***Verify the hardware hash uploaded** To confirm the hardware hash for the device was uploaded into Intune and that the device shows as a Windows Autopilot device: 1. Sign into the Microsoft Intune admin center. 2. In the Home screen, select Devices in the left-hand pane. 3. In the Devices | Overview screen, under by platform, select Windows. 4. In the Windows | Windows devices screen, under Device onboarding, select Enrollment. 5. In the Windows | Windows enrollment screen, under Windows Autopilot, select Devices. 6. In the Windows Autopilot devices screen, select Sync in the toolbar. 7. Wait for the sync to finish. The sync might take several minutes. 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.	
10/15/24	1.5hour	Documentations	• Windows PowerShell scripts committed to GitHub repository. • Time logs with reflection for the period of October 7th through October 13th. • Board Management tasks updated	
10/15/24	2.5 hours	Troubleshooting Profile status	• In this step, to provision computers, the profile status must be assigned. After troubleshooting the issue, it	**Challenges:** The virtual machine was not uploaded to the Windows Autopilot devices, but after

			started working, and the status changed from "not assigned" to "pending," and then to "assigned."	troubleshooting, the problem was resolved.
10/16/24	1hour	Troubleshooting Managmnt Setting checks list	• Autopilot deployment profile • Company Portal • Licenses • Certificate connectors • Conditional access • Enrollment status page • Guest invitation settings • OneDrive • Self-service password reset • Update rings for Windows 10 or later • Windows Hello for Business • Windows apps	**Challenges:** 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	Built a second virtual machine with Windows 10 media on the VM and deleted it due to insufficient space. Steps: 1. Name & location 2. Assign memory 3. Configure network 4. Connect virtual hard disk 5. Installation option	**Challenges:** 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 Repository Documentations	• Tentative project management board schedule restructured due to troubleshooting issues. • PowerShell source codes committed to repository • Virtual machine autopilot not assigned, pending, assigned • Diagram • Time logs & reflection as well	
10/19/24	3hours	Live presentation preparation completed	What is autopilot? Why is autopilot important? 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.	
10/20/24	2hours	Time logs & Reflection Documentation	Written time logs for the period of 10/14/24 to 10/20/24.	**Next:** • Deliverable: Presentation Slides (1st Draft) • troubleshooting issues • Create more resources • Register Devices with Autopilot • Assign devices to development profiles • Configure Additional settings

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? It 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.

Time logs 10/21/2024 to 10/27/2024

15.5 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
10/21/24	4 hours	Research & Documentations	• Read the General expectation of slides presentation (1st draft). • Fill out Part I of Interim Supervisor Evaluation form and email to the supervisor. • Commit time logs of period 10/14/24 to 10/20/24 to GitHub repository. • Presented live presentation with Professor Katherine Chaung. • Bean deliverable: presentation slides • Draft an email to the professor requesting clarification about the interim evaluation form.	Block out dedicated project time in my calendar for live presentation with Professor Katherine.
10/22/24	1.5 hour	Project deliverable slides	Continue to work on the slides (Adding explanation screenshots/diagrams) for better visualization.	
10/23/24	2.5 hours	Research reading	Read "Prepare Win32 app content for upload" • This reading summarizes the key points. knowing the prerequisites such as to use Win32 app management, be sure you meet the following criteria:	

			• Use Windows 10 version 1607 or later (Enterprise, Pro, and Education versions). • Devices must be registered or joined to Microsoft Entra ID and auto enrolled. The Intune management extension supports devices that are Microsoft Entra registered, Microsoft Entra joined, hybrid domain joined, and group policy enrolled. • Convert the Win32 app content • Process flow to create a. intunewin file • Running the Microsoft Win32 content Prep Tool. Before you install and use the Microsoft Win32 Content Prep Tool, you must: • Review the Microsoft License Terms for Microsoft Win32 Content Prep Tool. • Review the Privacy and personal data in Intune for information on the privacy policy of the Microsoft Win32 Content Prep Tool.	
10/24/24	1.25hour	Virtual Machine troubleshooting	Setting up a virtual machine and installing Windows 11 didn't proceed as expected, and the issues encountered will need to be resolved through troubleshooting.	**Challenges:** Virtual Machine Boot Summary 1. Network Adapter (00155D38010C) A boot image was not found. 2. SCSI Disk (0,0) The boot loader did not load an operating system. 3. SCSI DVD (0,1) The boot loader failed. No operating system was loaded. Your virtual machine may be configured incorrectly. Exit and re-configure your VM or click restart to retry the current boot sequence again.
10/25/24	2hours	Research reading	Add an Enterprise App Catalog app to Microsoft Intune. To complete this task, it requires dedicated amount of time to reach and understand the reading and it's done in numerous steps. 1. Step 1: App information 2. Step 2: Program 3. Step 3: Requirements 4. Step 4: Detection rules 5. Step 5: Select scope tags (optional) 6. Step 6: Assignments 7. Step 7: Review and create	
10/25/24	0.75hours	Project deliverable slides & To-date logs	Complete the presentation slides along with the necessary explanations and finalize the up-to-date documentation.	

10/26/24	1.5 hour	Update management board	All past, current, and future tasks have been updated in their respective sections. This process helps me manage my time efficiently.	
10/27/24	1.5hours	Documentation of time logs and reflection	Write out reflections on the time spent on the project so far, and prepare time log for submission	
10/27/24	0.5hours	Commit to GitHub repository	• Active users • Microsoft Entra ID • OS requirements • Windows overview • Device overview • Windows enrollment • Microsoft Intune • High Level Architecture • Time logs with reflection for period of 10/21 to 10/27/2024 • To-date document • 10/28 Deliverable Presentation Slides (1st Draft)	

Reflection

What were your main goals in this period?

During this period, my main goals included preparing and delivering a live presentation with Professor Katherine Chaung, alongside developing project deliverable slides enhanced with screenshots and diagrams for better clarity. I also focused on conducting in-depth research on essential topics, such as preparing Win32 app content, meeting its prerequisites, and learning the process of adding apps to the Enterprise App Catalog in Microsoft Intune. Additionally, I aimed to set up a virtual machine with Windows 11 for project testing, though troubleshooting issues arose during the process. To stay organized, I documented time logs, managed the project board, and reflected on my progress to ensure everything stayed on track with the project plan. This phase was vital in laying the groundwork for key deliverables and refining the deployment steps needed for a successful project outcome.

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 period included virtual machine setup issues, understanding complex research topics, and balancing multiple tasks effectively. Booting the virtual machine proved problematic, with errors like missing boot images and failed OS loads. Although I attempted to troubleshoot by reconfiguring the settings, further assistance through documentation, forums, or peers might be needed for quicker resolution in future attempts. Some research tasks, such as preparing Win32 app content and configuring the Enterprise App Catalog, were intricate and time-consuming. Breaking them down into smaller, manageable steps proved helpful in ensuring smooth progress. Additionally, time management was a challenge, as balancing the preparation of presentations, documentation, and project work required careful planning. Blocking out dedicated time and using a project board allowed me to stay on track. Overall, these challenges were met with effective troubleshooting, task segmentation, and time management strategies. However, continued research and external guidance may further enhance my ability to resolve technical issues and maintain consistent progress moving forward.

Time logs 10/28/2024 to 11/2/2024

15 hours accumulated in this period

Date	**Duration**	**Type**	**Description of completed work**	**Challenges and/or Next steps**
10/28/24	2 hours	Meeting with supervisor	This meeting was conducted to concentrate on specific aspects of the project. As the project moves forward, numerous troubleshooting issues arise, impacting the project's timeline. Despite these challenges, the project leader, who is the author, remains undiscouraged.	Challenges: Troubleshooting Of technical support for the project deployment
10/29/24	3.5hours	Troubleshooting research	Virtual Machine Boot Summary 1. Network adapter (Boot image was not found) 2. SCSI Disk (Boot loader did not load an operating system) 3. SCSI DVD (Boot loader failed) 4. No operating system was loaded. The VM may be configured incorrectly	Challenges: Insufficient storage for virtual machine.
10/30/24	4 hours	Reading & Implementation	Create and assign an app protection policy • Prerequisites • Sign in to Intune • Create an app protection policy Create and assign a custom role • Prerequisites • Sign in to Intune • Create a custom role • Assign the role to a group • Clean up resources • Next steps	
10/31/24	3.5 hours	Troubleshooting of virtual machine resolved	The second virtual machine VM2 has been created and functioning, and storage wise issue has been also resolved. Windows installation has been added to the VM successfully	
11/1/24	0.5hour	Documentation	Update project management board and commit to GitHub repository	
11/2/24	1.5hour	Documen tation of time logs and reflection	Write out reflections on the time spent on the project so far, and prepare time log for submission	**Next:** - Directly upload the hardware hash to an MDM service using Windows PowerShell. - Prepare 2nd demo recording

Reflection

What were your main goals in this time period?

During this time period, my main goals were to progress through Microsoft Intune Autopilot deployment and implementation, address technical troubleshooting issues, and document project updates. Specifically, I aimed to create app protection policies, assign custom roles, troubleshoot virtual machines, and ensure storage capacity for deployment. Each of these tasks contributed to the foundation necessary for a successful Autopilot setup, allowing users to have a more secure and seamless experience upon device configuration.

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

The primary challenges during this phase included troubleshooting the virtual machine boot issues, which were caused by insufficient storage and boot loader errors. Resolving these issues required detailed research, implementation of additional resources, and collaboration with the supervisor to address technical bottlenecks effectively. Although time-intensive, I managed to overcome these obstacles through targeted research and applying best practices in virtual machine setup, such as adjusting storage and boot settings. Moving forward, uploading hardware hashes directly to the MDM service will streamline the deployment process.

Time logs 11/4/2024 to 11/10/2024

17.25 hours accumulated in this period

Date	Duration	Type	Description of completed work	Challenges and/or Next steps
11/4/24	1.25 hours	Meeting with supervisor	The meeting focused on discussing the project's progress, particularly addressing several critical troubleshooting issues, such as storage, performance, and efficiency of the virtual machine. While I was able to resolve the storage issue, I noticed that the VM was still running very slowly. To move forward, I opted to use a device with sufficient storage capacity.	Challenge: Improving the virtual machine's performance, particularly in terms of storage capacity, speed, and efficiency. Access to a device with greater processing power and additional RAM would significantly boost the VM's speed and responsiveness. Furthermore, fine-tuning the VM settings and using SSD storage rather than an HDD could further enhance its overall performance.
11/6/2024	4 hours	Implementation	• Create an additional virtual machine • Reset the virtual machine directly from PC and Hyper-V manager • Fix troubleshooting resources allocations • Complete new virtual hard drive wizard to drive storage issue • Directly uploading the hardware hash to an MDM service using Windows PowerShell scripts: PowerShell.exe -ExecutionPolicy Bypass Install-Script -Name Get-WindowsAutopilotInfo -Force Set-ExecutionPolicy -Scope Process -ExecutionPolicy RemoteSigned	

			Get-WindowsAutopilotInfo -Online	
11/7/24	3.5 hours	Demonstration, implementation	• Captured a live demonstration of the virtual machine setup and installation process. • Captured a live demonstration of using Windows PowerShell to directly upload the hardware hash to an MDM service via scripts. • Created a third virtual machine because the second one was running too slowly, impacting the project timeline. • Short meeting with supervisor	
11/8/24	2.5 hours	Research	• How to update from Microsoft windows 11 home to pro for free. (Because Hyper-V manager does not run on Windows Pro) • How to use the Command Prompt to recover your Windows Product Key. • Read “Windows Autopilot Reset”	
11/9/24	1hours	Demo prep	Prepare the second demo recording prepare a 2–5-minute video • Diagrams, including changes since initial draft • Prototype showing initial implementation of your design ideas • Updates to your Project Management Board since the beginning of the semester • Updates to your Version Control Repository since the beginning of the semester • Time Logs - one time log document per individual, showing accumulated project activities from the beginning of the semester	
11/9/24	3.5hours	Research, Troubleshooting	• Enable TMP which stands for Trusted Platform Module. This is a special purpose microprocessor which provides cryptography services to a compute platform. • Manage BitLocker on the VM. It warns that using disk encryption software other than BitLocker or Windows device encryption might prevent Windows from starting after encryption. If this happens, a full Windows reinstall may be necessary, resulting in data loss. • Autopilot reset the virtual machines on Microsoft Intune and watches the behavior behind the scenes. • Check for possible Windows Updates • Record 2nd demo	Challenges: Some difficulties arose when performing an Autopilot reset, as one of the devices failed unexpectedly, and I am currently investigating the cause. Additionally, managing BitLocker drive encryption has proven challenging due to various troubleshooting issues.

11/10/24	1.5 hours	Documentation	Write out reflection, time logs on the time spent on the project this period, commit to GitHub repository, and update board management	**Next:** - Troubleshooting BitLocker encryption - autopilot reset failure - Add an Enterprise App Catalog app to Microsoft Intune - Prepare Win32 app content for upload.

Reflection

What were your main goals in this period?

The primary goals during this period were to progress with the deployment and configuration of Microsoft Intune Autopilot, optimize virtual machine performance, and prepare for the second demo recording. This included tasks such as creating additional virtual machines, resetting them when necessary, troubleshooting storage issues, and using PowerShell scripts to automate the upload of hardware hashes. Additionally, I focused on preparing demo recordings, updating project documentation, and refining diagrams and prototypes to reflect the latest progress.

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

One of the significant challenges was dealing with the Autopilot reset process. One device failed unexpectedly during the reset, and I am currently investigating the root cause of the issue. Additionally, managing BitLocker drive encryption posed difficulties, particularly when it came to troubleshooting conflicts with other disk encryption software, which could potentially result in system boot failures. To overcome these challenges, research into troubleshooting techniques and leveraging Windows documentation helped resolve some issues. However, better hardware with increased processing power and dedicated support for TPM could streamline the encryption and reset processes. Further, more thorough testing and optimization of PowerShell scripts might help in reducing errors during device configuration.