RACI Matrix

Responsible	Accountable	Consulted	Informed

Tasks \ Team	Lorenzo Matilla	Alexandre Catala	Tanguy Cailleaux	Théo Pasqualini	Louis Vernanchet	Frederic Paillart	Jessica giacobi
Gantt							
Requirements Collection							
Project Charter							
RACI Matrix							
WBS							
OBS							
Risk Analysis							
EBIOS RM							
Identify system requirements for personnal and enterprise firewall functionnalities							
Allocate VMs and school cluster resources for development and testing							
Study landlock LSM and syscalls interception							
Investigate Kubernetes deployment strategies for entreprise scalling							
Explore Landlock's capabilities for file and network control							
Research syscalls interception using BPF							
Implement syscall interception for unkonown binaries							
Enable dynamic rule application based on user input (allow/deny)							
Store and manage rules in database							

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Test sandbox with common linux applications	I	C	A	R	C	C	I
Validate rule enforcement against real-world scenario (file access, network connections)	A	R	C	I	C	C	I
Prepare presentation for sandbox prototype	R	R	R	R	A	C	I
Collect feedback from testers and professors	C	I	R	A	C	C	I
Design basic WEB UI prototype	A	C	I	C	R	C	I
Develop the web interface using a framework to display essential features	R	I	C	A	R	C	I
Develop a database for rules using Rust	I	R	A	R	C	C	I
Write a short manual explaining how to use the interface rule management	C	I	R	C	A	C	I
design of centralized rule management system	R	A	I	R	C	C	I
Define stucture for creating global and local rules	I	R	C	A	C	C	I
Determine methods for secure rule propagation to SuperNanny posts	C	I	R	R	A	C	I
Implement control plane for monitoring SuperNanny posts	A	R	I	R	C	C	I
Test rule distribution across multiple endpoints	I	R	A	C	R	C	I
Set up mechanisms for the distributions rules	R	C	R	A	I	C	I
Allow admin to define security rules	R	A	C	I	R	C	I
Develop scripts that allow Master to connect, can apply rules	A	R	R	C	I	C	I

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Local tests to ensure the Master can apply rules on remote machines							
Deploy master and the SuperNanny machines on Kubernetes							
Ensure that the master can communicate with multiple SuperNanny machines deployed on Kubernetes							
Configure the school's server to add our kubernetes configuration							
Verify that the Master can enforce rules on multiple machines in parallel							
Write a guide for deploying and managing the solution in a Kubernetes solution							
Verify that each system component is fully operational							
Analyze scalability tests and adjust Kubernetes configurations if needed							
Reevaluate the security rules and their application across endpoints							
Provide additional support for the deployment of Master and SuperNanny							
Adjust connection scripts and validate communications between components							
Update the Kubernetes deployment guide with final adjustments							
Add best practices and lessons learned during the implementation phase							