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CPS 4301

Sprint1

Abstract: After we had our call with Leif, the Bit Foundry will consist of writing additional software for Remote monitoring and management (RMM). RMM is capable of patching and updating all applications simultaneously. The roles for each member of this operation will be established as soon as we have complete understanding of the planning process.

1. ***Project Description:***

What is your project at a high level?

The product is software written as additional software to work with a remote software called Tactical RMM which in return will automatically update all of the software on each individual machines for BitFoundry’s clients.

What problem does it solve?

Generally, with Tactical you have to individually remote into each machine separately and you would have to update each piece of software separately on each individual machine.

Who is the target audience you expect to use the product?

The target audience is BitFoundry. Our client will use this product to automatically manage their clients’ machines.

Justify why you have chosen these roles?

We choose these roles based off of the skillset that everyone has.

Will the roles differ for different project sprints?

Once specific tasks begin to be completed yes people will have to do different roles.

How will disagreement be resolved?

Theoretically there shouldn’t be any disagreement in the event that the client wants the software written in a specific way. However, in reality there are times when software cannot be written exactly how a client may want.

If individual behavior impacts team success, how will the team identify the problem and resolve the problem to enable team success?

Probably one of the best ways to settle disagreement in a team is to have the team vote on specific solutions.

2. *Requirements:*

The requirement for this operation will consist of:

a. multiple small scripts of Python
b. We are also in charge of writing down arguments (default, keyword, positional, etc.).
c. Setting up this structure will require knowledge of RMM and implementing scripts of Python, log files, our own domains, and web servers.
d. It would also be very efficient to properly insert our choice of VMware (Digital Ocean), which is a cloud computing software provider. A functional computer network plays a major role towards this as well.
e. The roles of our team of five consists of everyone contributing code, but established two testers, documenter, client liaison, and a team leader.

3. *User Stories:*

a. I want the software to be written with the function of remote control. So that it can be able to automatically update the software on all the end users' computers overnight.
b. I would like my system to have a GUI and I want to implement APIs instead of hand coding so that it will be easy to update.

4. *Process Description:*

Software Toolset:

- a. Programming Languages
  - i. Main language is Python
  - ii. Secondary language Javascript
- b. Programming Tools
  - i. VM console (view)
  - ii. Automation IDE (ex: Katalon)
    1. If the client decides he wants to automate the entire process we can use any IDE that allows for automation
  - iii. RMM Tactical
    1. Which will give us access to the existing codes and Computers
  - iv. Visual Studio Code to build our script and then implement on our tester
- c. Testing
  - i. Virtual Machine (Digital Ocean)
    1. Ubuntu 20.04 (LTS) x64
    2. 1 GB Memory
    3. SSD: 25 GB Disk
    4. Shared CPU
    5. Transfer: 1 TB

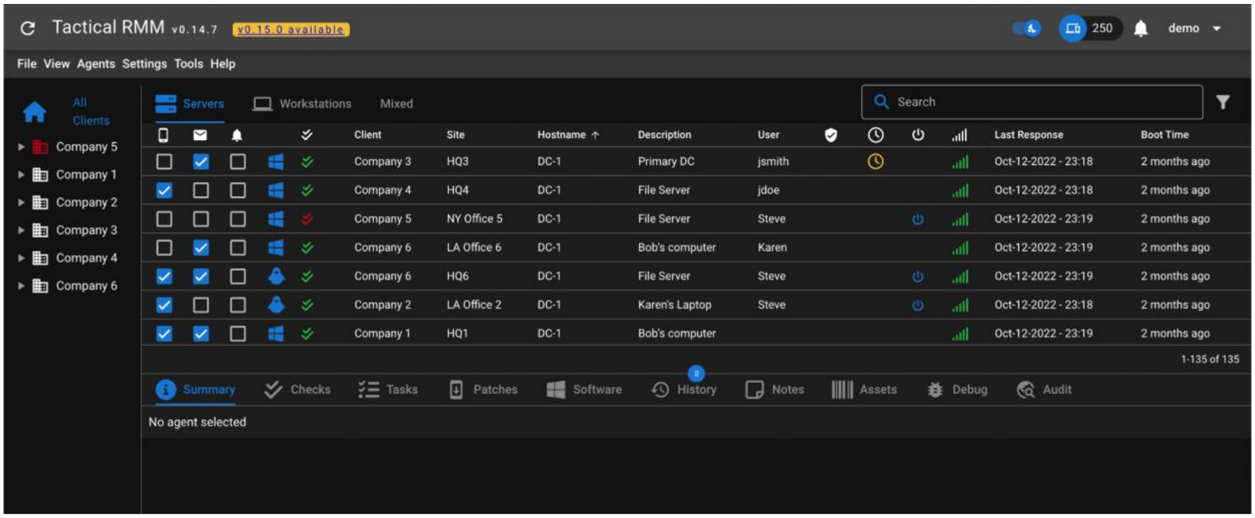
        6. No Firewalls setup (will do in future)

- ii. RMM Tactical (Remote Monitoring and Management Software)
    1. Setting up Tactical User
    2. Built with Django, Vue, Golang
    3. Features
        - a. Event Log Viewer
        - b. Services management
        - c. Windows Patch Management
        - d. Automated Checks
        - e. Automated Task Runner

Explanation:

We are using the listed tools for programming and testing because we thought this would be the best fit since BitFoundry uses RMM Tactical for their computers. All their users have RMM downloaded on their workstations at home and at the office. We are using a Virtual Machine from Digital Ocean because Chris and I found it to be User friendly as opposed to AWS VM and Google's version of a VM. Digital Ocean’s VM will not only help connect to RMM Tactical but also allow us to test without any supposed security concern for connecting to personal or work related stations. Tactical RMM is a remote monitoring & management tool built with Django, Vue and Golang. It uses an agent written in Golang and integrates with MeshCentral.

Tactical RMM Display:



			✓	Client	Site	Hostname ↑	Description	User			Last Response	Boot Time
☐	☑	☐	✓	Company 3	HQ3	DC-1	Primary DC	jsmith	◷		Oct-12-2022 - 23:18	2 months ago
☑	☐	☐	✓	Company 4	HQ4	DC-1	File Server	jdoe			Oct-12-2022 - 23:18	2 months ago
☐	☐	☐	✓	Company 5	NY Office 5	DC-1	File Server	Steve		⏻	Oct-12-2022 - 23:19	2 months ago
☐	☑	☐	✓	Company 6	LA Office 6	DC-1	Bob's computer	Karen			Oct-12-2022 - 23:19	2 months ago
☑	☑	☐	✓	Company 6	HQ6	DC-1	File Server	Steve		⏻	Oct-12-2022 - 23:19	2 months ago
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No agent selected