Research Report

Case Study

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Tutor:

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Date:

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# Introduction

During our work, we have encountered some problems. Our problem solve method was mostly googling, however, sometimes we needed help from our teachers.

Our

# Meeting agenda:

* 22/03/2020 14:00-17:00

Started project plan, discussed case study.

* 27/03/2020 15:00-16:30

Worked on project plan.

* 29/03/2020 13:00-17:00

Worked on project plan, DHCP server and installed Firewall. Configuration of the firewall.

* 30/03/2020 15:00-20:00

Configuration of the firewall.

* 31/03/2020 15:00-19:00

Working on the project plan. Started design document.

* 02/04/2020 14:00-16:00

Added more users, configuration of the group policies.

*Questions encountered during this meeting:*

*How much users do client want? – Minimum 3 different users.*

* 06/04/2020 14:00-17:00

Meeting with project mentor. Fixing project plan, expanding design document

* 08/04/2020 15:00-17:00

Configuration of the group policies.

* 09/04/2020 13:00-15:30

Researching info for the application, making folder redirection on the server

*Questions encountered during this meeting:*

*What do you prefer more: Tabs or Open Windows? – Tabs are more preferable by the client*

*Does client want to have statistics minimalistic or more detailed? – Client wants to see organized but detailed statistics.*

*What for should we use database? – For storing system information.*

* 10/04/2020 13:00-17:30

Putting a lot of effort into making Folder redirection work. Asking teacher for help.

*Questions encountered during this meeting:*

*Why folder redirection is not working? – Because there was a wrong path written*

*Why group policy is not applied? – It did not see users in a group, adding users separately to GPO solved the problem (it was a system problem)*

* 11/04/2020 13:00-15:00

Started making VPN

*Questions encountered during this meeting:*

*Does client wants users to use VPN to connect directly to certain VMs? Client wants to use VPN to connect directly to VMs*

* 12/04/2020 13:00-19:00

Updating design document, testing VPN.

* 16/04/2020 13:00-20:00

Testing, polishing everything that was done.

* 17/04/2020 14:00-16:00

Trying to make IDS work, configuring Linux

*Questions encountered during this meeting:*

*How to configure Linux network interface? – Executing dhclient command, which took IP address from DHCP pool*

* 18/04/2020 13:00-15:30

Researching libraries for the application, discussing.

* 19/04/2020 13:00-19:00

Started making application. GUI. Backups of the server

* 21/04/2020 14:00-20:30

Finishing design document. Making application. Getting system information.

* 22/04/2020 13:00-21:00

Polishing design document. Application – getting system information in a real time.

* 23/04/2020 14:00-20:30

Polishing design document. Writing Research Report. Application – making graphs.

* 25/04/2020 14:00-21:00

Polishing design document. Polishing research report. Application – creating database for storing logs, adding 2 more graphs, starting on socket connection.

* 26/04/2020 9:00-22:00

Polishing design document. Polishing research report. Application – implementing socket module to the code, adding additional .py file for sending and receiving information via TCP, polishing graphs(adding y axis’ labels), testing app on server.

# Work Division

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| --- | --- |
| Robert | Dima |
| Installed VMs | Application GUI |
| Backup policies | VPN |
| Users, Group Policies | Configured Linux Server |
| DHCP, DNS | Application Graphs |
| Firewall, Proxy | Application Logs |
| Application database |  |
| Polished application |  |
| Documentation | |