Forticlient EMS Server & forticlient OPSDOC

Overview

Antimalware software on every machine is a must these days. This anti malware solution should be manageable from a central server. The users shouldn't be able to disable the antimalware protection. We choose for the professional endpoint security management from Fortinet. This solution includes:

- Forticlient Endpoint Management Server (server for performing remote scans and remotely management for the endpoint like servers and computers)
- Forticlient client installation for interaction with the EMS server

This Forticlient solution provided our servers with:

- Application Firewall
- Webfilter
- Protection against botnets, zero-day malware,...
- Real time reporting and patching of vulnerabilities
- Real time Malware and antivirus protection
- For more specific details visit: www.forticlient.com/

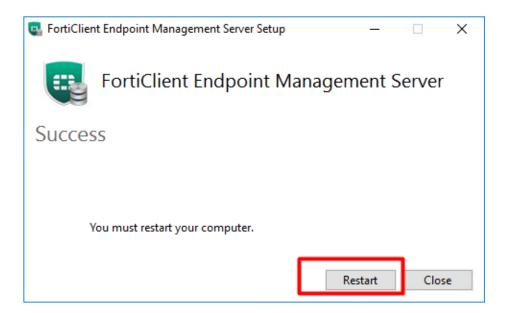
Bugs and problems can be reported using the bug tracker or the ticketing system. The guide for using these systems can be found in the OPSDoc bundle.

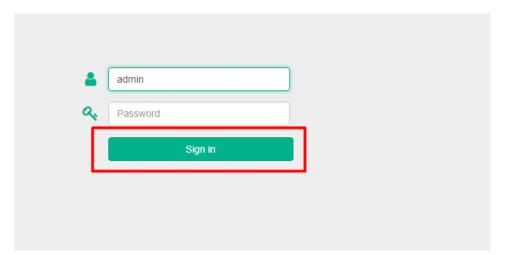
The primary contact person for this service is: Brent De Vos

Prerequisites

- Windows server 2016 or newer virtual machine

Installation





sign in with admin and the credentials you will find in the password safe.

Forticlient client installation on ubuntu servers

ccs2@opensupport:~/forticlient\$ wget http://172.27.66.125/forticlient_6.2.6.0356_amd64.deb wget the custom .deb installation file from our own webserver using the command above.

sudo apt-get install /home/ccs2/forticlient/forticlient_6.2.6.0356_amd64.deb Install.deb file

sudo /opt/forticlient/epctrl -r 172.27.66.124

Connect the machine to the endpoint management server using the ip address of the server.

ccs2@opensupport:~/forticlient\$ sudo /opt/forticlient/epctrl -r 172.27.66.124 Registering to EMS 172.27.66.124:8013. Connected!

You should get the 'Connected!' message. This machine is now successfully connected to the EMS server.

For more information about the 'epctrl' command and the usage visit the website bellow:

https://docs.fortinet.com/document/forticlient/6.2.0/administration-guide/41299/appendix-e-forticlient-linux-cli-commands

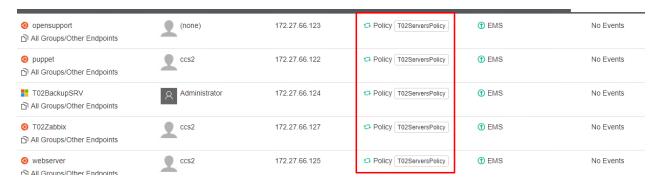
Forticlient client installation on windows servers

Browse with the webbrowser on the windows server to: https://172.27.66.124:10443/installers/win installers

	Name	Last modified	Size
	Parent Directory		-
	msi/	2020-05-13 12:53	-
F	FortiClient_6.4.0.dmg	2020-05-13 12:55	84M
619	FortiClientSetup_6.4.0_x64.exe	2020-05-13 12:53	123M
OF T	FortiClientSetup_6.4.0_x86.exe	2020-05-13 12:53	101M

Download and run the x64.exe installation file. This is a customized installation file. The win client is after this installation automatically registered to our EMS server.

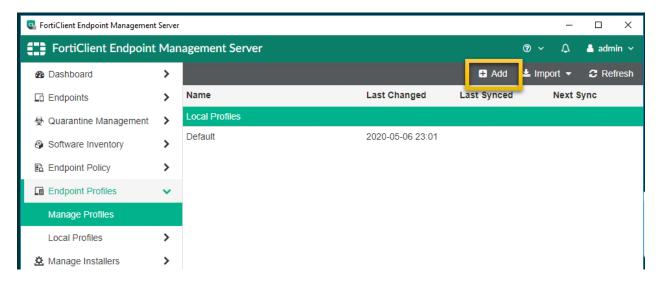
All of our registered clients appear in the all endpoints overview:



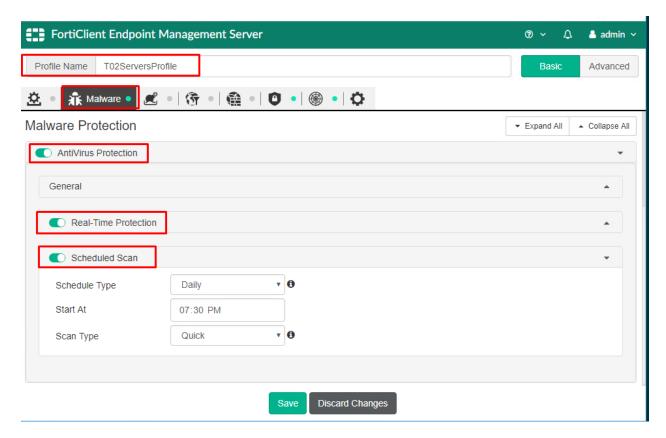
Applying security profiles to the registered clients in EMS Server



On EMS server dashboard browse to the endpoint profiles tab on the sidebar and click manage profiles.

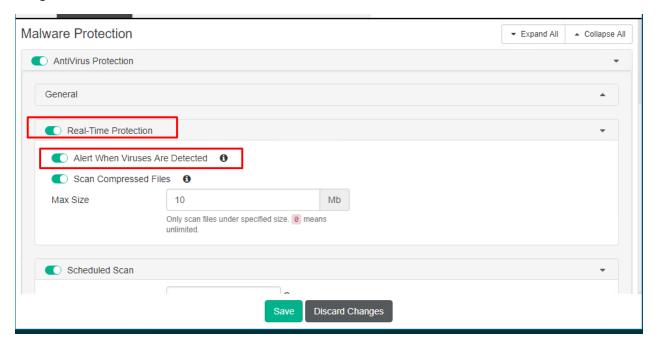


By default we will only see the Default Profile which is automatically applied to all (new) registered endpoints. We van change this Default profile butt we are going to create a new customized profile for our servers. We can do this by clicking on 'Add' in the bar at the top.

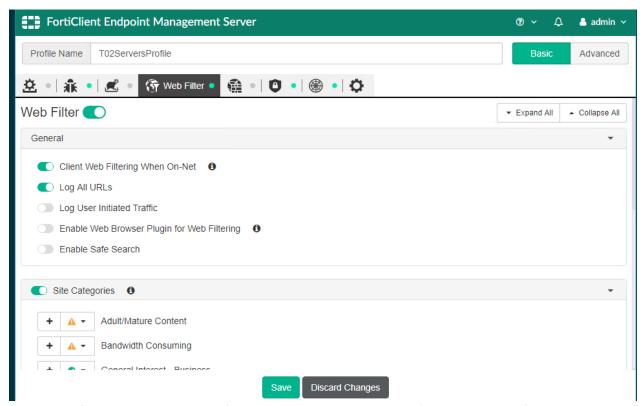


At the malware tab we enable Antivirus protection, Real-Time protection and we will configure a daily quick av scan.

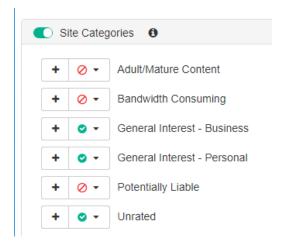
If we expand the Real-Time Protection tab make sure 'Alert when Viruses are detected is checked' so we will get an alert in EMS server when a server has a virus.



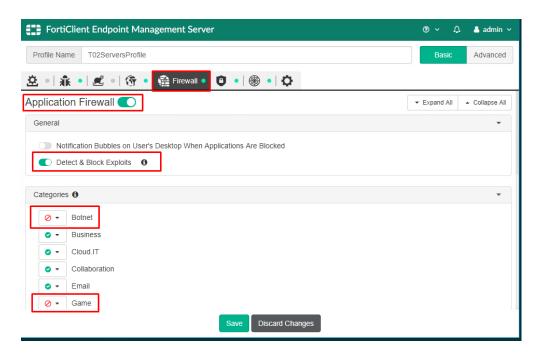
The next tab is Sandbox detection butt we don't have a license for fortinet fortisandbox so we can't configure sandbox detection.



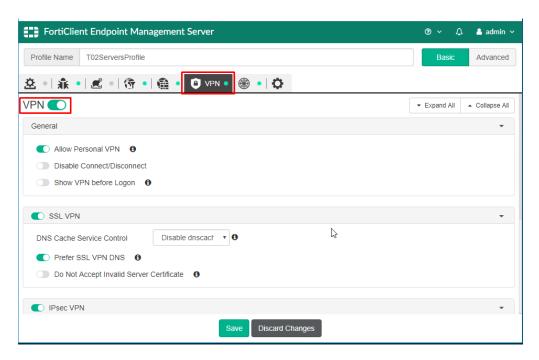
On the webfilter tab we enable webfilter and the options Log All URL's and client web filtering when On-Net because wedont want to visit malicious websites.



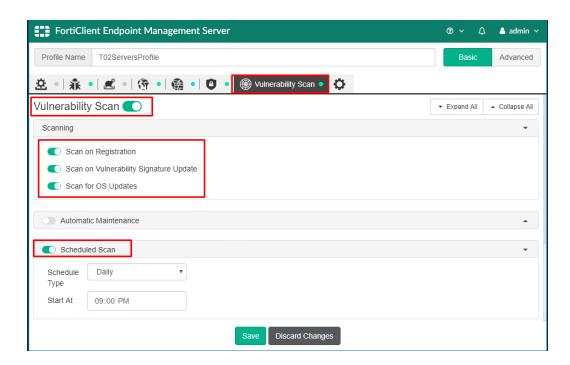
We will block adult /mature content, bandwith consuming websites and Potentially liable websites.



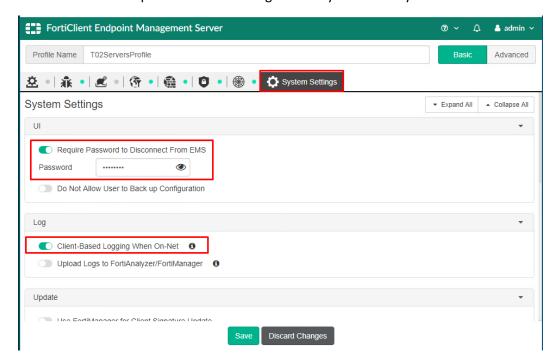
On the Firewall tab enable the Application Firewall. We want the firewall to detect and block Exploits. We will also block botnet connections and connection to Game services.



On the VPN tab enable the VPN service, we leaeve all options on default settings.

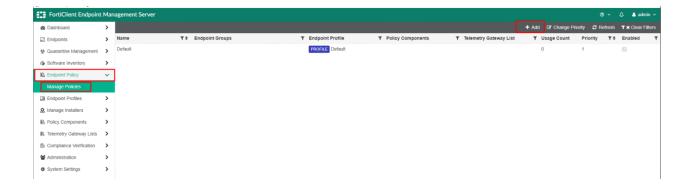


On the vulnerability scan tab enable Vulnerability Scan (this is normally done by default). We enable all scan options. We also configure a daily vulnerability scan.

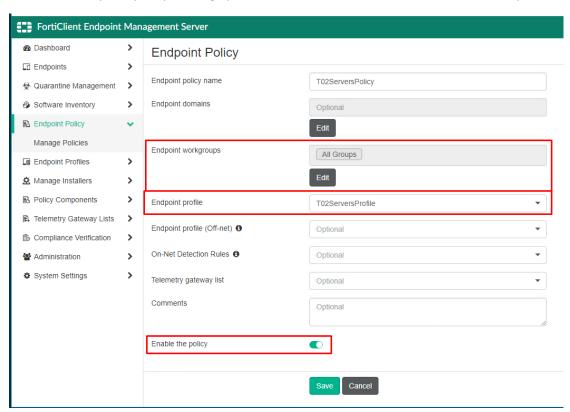


The last tab is the system settings tab. We only want to make deregistering a client possible on the EMS server and not the client himself. So we will set a password so only persons who know this password can deregister a client.

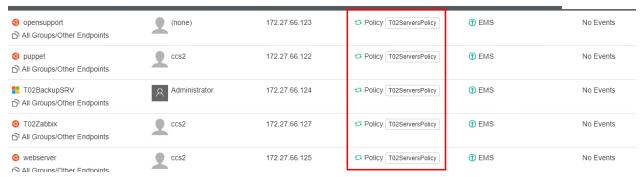
Click Save to end this profile configuration.



Go the the endpoint policy, manage profiles tab and click on 'add' in the bar at the top



Select as endpoint profiles our previous configured profile and enable the policy. Click on Save.

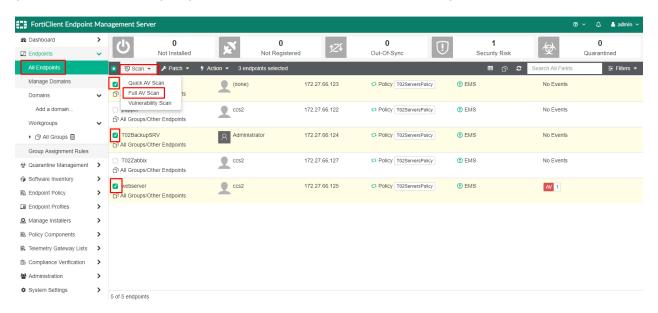


If go to the 'all endpoints' tab we will see that all of our servers now have our configured security policy. all our servers are now fully protected.

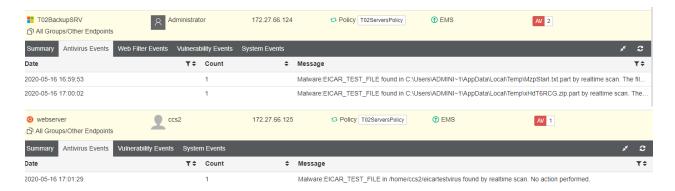
1. Performing remote AV, vulnerability, ... scans

We will add an EICAR Virus test file on two systems for testing purposes

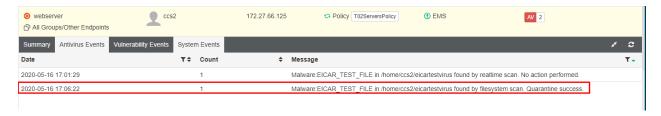
Our systems do a full malware scan and vulnertability scan every day and are real time protected. But you can follow these steps if you want to do a manual remote scan of a system.



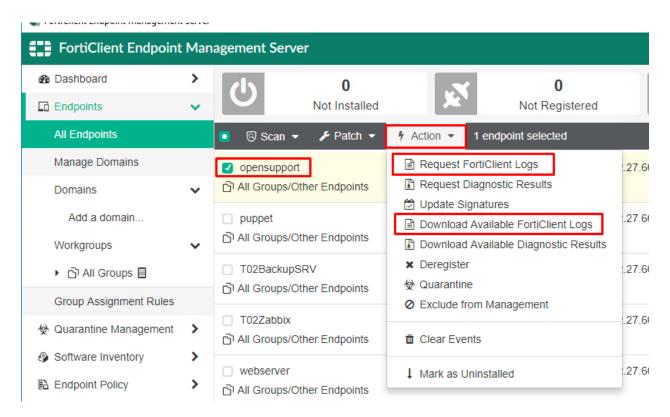
Select the systems you want to scan and select the scan type you want. These systems are now going to do your selected scan type and will report the results to this dashboard.



As you can see our windows server and our webserver have some security problems. The 2 virus files our windows server was trying to download were automaticly quarantained and deleted automaticily according the the message. Our webserver needed some more time but was also able to quarantine the malicious file.

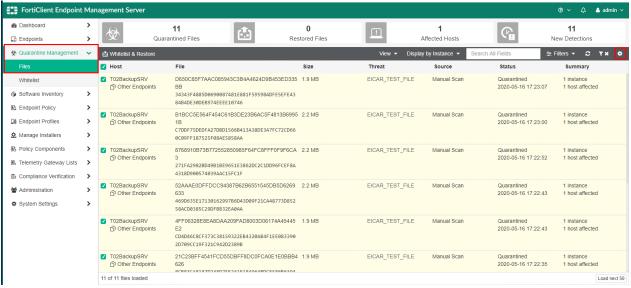


2. Requesting logs from clients

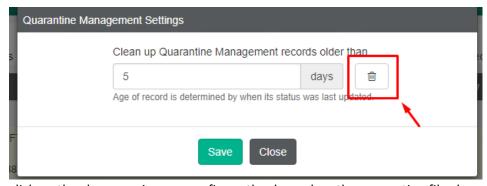


By selecting clients and select the request or download logs action you can manually request en view logs from specific clients

3. Viewing and deleting quarantined records



Click on the settings icon in quarantine management.



click on the clear now icon or configure the days when the quarantine files have to be removed