

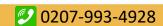
Check Point SOFTWARE TECHNOLOGIES LTD.

CCSE

Content Awareness

Step by Step Configuration Guide









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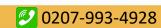






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Version Control

Version	Date	Notes	Created By	Release
1.0	18/12/2018	Student Workbook for LAB	Mazhar Minhas	Initial Release
1.1	31/04/2020	Formatting / Error Removal	Farooq Zafar	Final Release

Reference Document

Click for the Reference document

Assumption

- ✓ We understand that delegate already understand L2/L3, Routing.
- The delegate already knows the "Fortray Networks Checkpoint Firewall" physical and logical connection.
- The delegate already has basis Troubleshooting skill, such as ping and trace.
- The delegate already has access to the "Fortray Networks Checkpoint Firewall" Spreadsheet encompassing the Basic Layer, 2, 3 and allocated subnet information. For more details refer to the "Student Folder".
- ✓ This document is created to show an example for one topology only. The candidate needs to refer to his own topology and follow this step by step guide.
- ✓ We assume that delegate already have installed the VPN software and him/she have VPN user / Password. If any issue, contact our Technical team.
- Our VPN software is supported by PC, MAC, Android, and IOS devices.
- It's also assumed that delegate has access to PC/Laptop i5 with 4GB RAM.
- For optimal connectivity, we recommend at least 10MB Internet connection.
- We assume that we already have INTERNAL, DMZ, OUTISE interfaces are already configured.



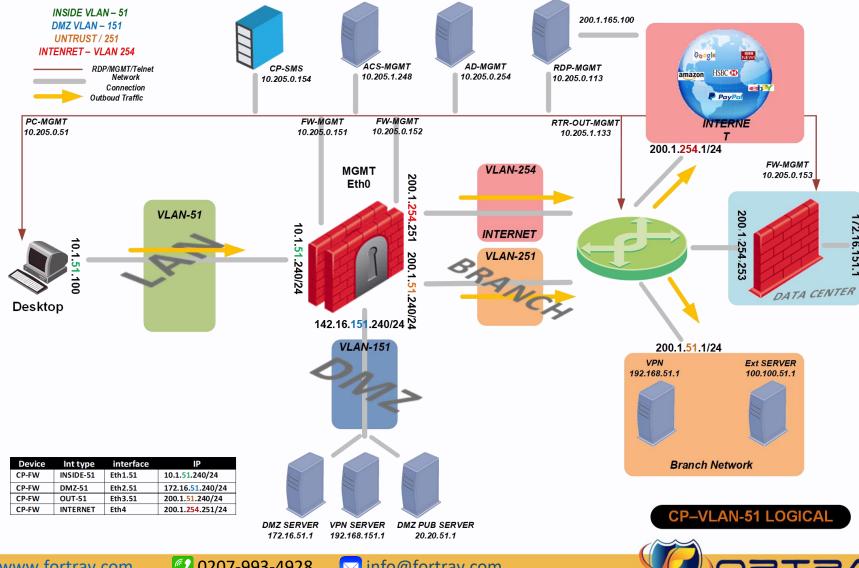


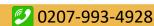




Network Topology

The below network topology is just for information purpose only. Please refer to your student folder and your designated topology. If any doubt, please ask your instructor.





5. Check Point – Task: Content Awareness



According to new company policy no employee allowed to upload or download any windows executable file.

As a security engineer it is our job to block all executable files inside or outside of organization.

Summary of the steps

- Logging to Security Management Server
- > Enabling Content Awareness on Desired Gateways
- Enabling Content Layer in Policy Editor
- Adding Rule to Block Executable files
- Verification





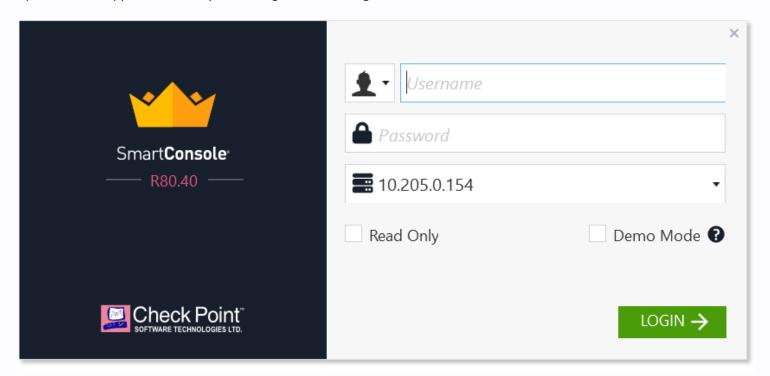


6. Check Point – Configuration: Content Awareness

In this section we will block executable files to be uploaded/downloaded.

6.1 Step 1: Login to SMS using SmartConsole

Open the SMS Application from your PC, login to SMS using default credential i.e., admin/admin123.





Assumption: This task assumes that we have already downloaded and installed the SMS R80.X software from the SMS via GUI.



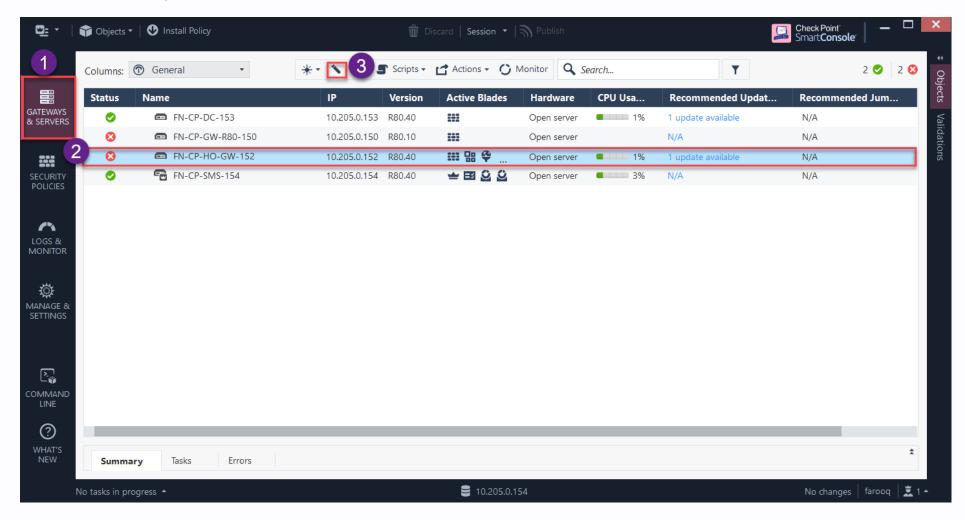


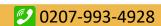




6.2 Step 2: Enabling Content Awareness Blade

Select GW from Gateways & Servers and click on Edit.

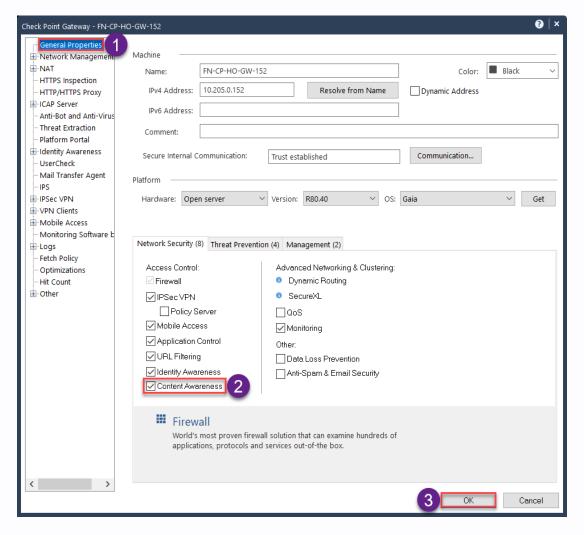








Enable Content Awareness Blade by clicking on Checkbox in General Properties



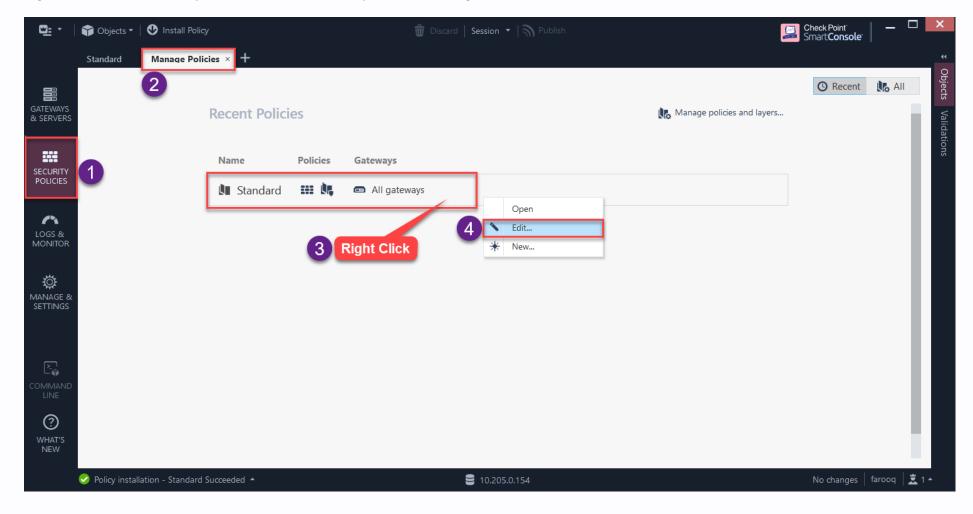






6.3 Step 3: Enabling Content Awareness Layer

Right Click on Standard Policy and Click on Edit in Security Policies > Manage Policies.

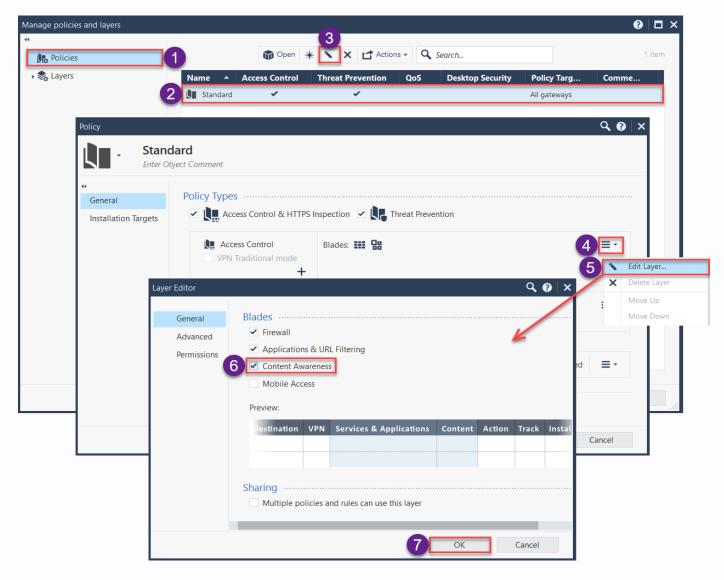








Then select Standard Policy in Policies and click Edit. In new setting window click on options > Edit Layer. Here Click on Content Awareness Checkbox and click OK. And click OK on all opened windows.



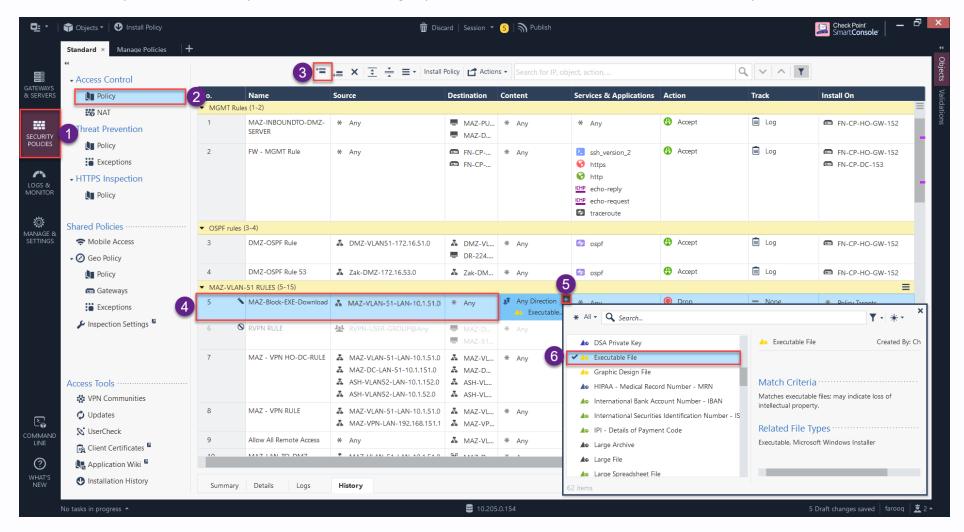






6.4 Step 4: Adding Policy to Block Executable Files

In Security Policies > Add Policy > Enter Values According to your VLAN. In content Field select Executable File in any Direction.

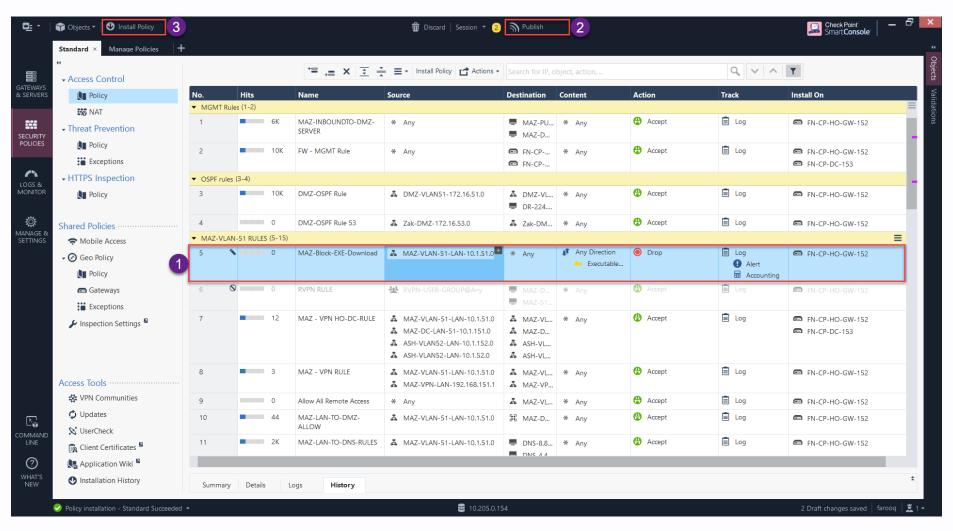




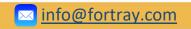




After completing Policy Fields click on Publish and then Install Policy.







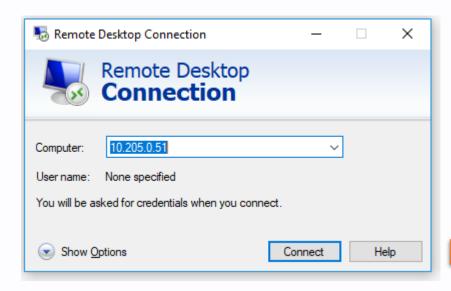


7. Verification

To verify Content Awareness and created policy we need to do following steps

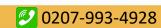
7.1 Step 1: Login to Remote Test PC

Login to your assigned Remote Test PC using Remote Desktop Connection Application, Use Administrator/Cisco as username/password to connect.







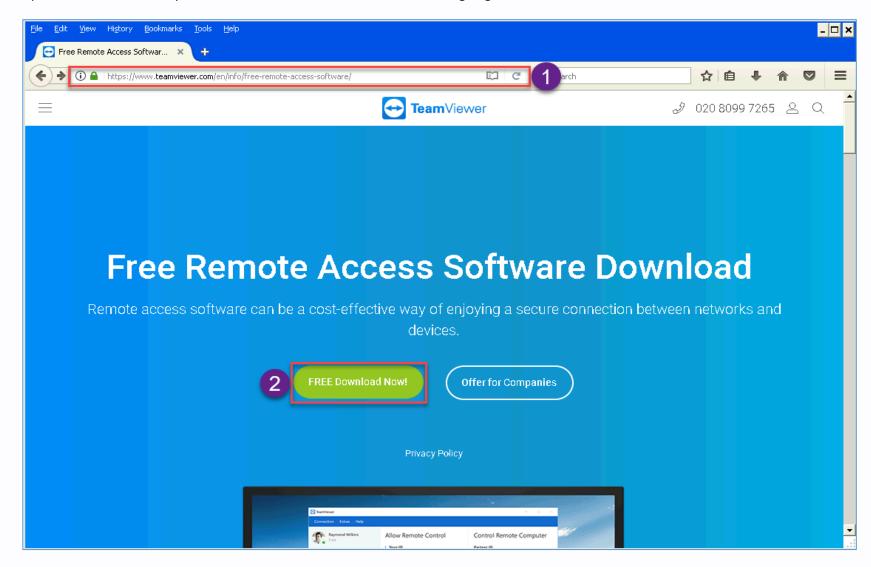


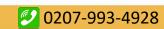




7.2 Step 2: Downloading Some Executable File

Open web browser and try to download and executable file. Here we are going to download TeamViewer.

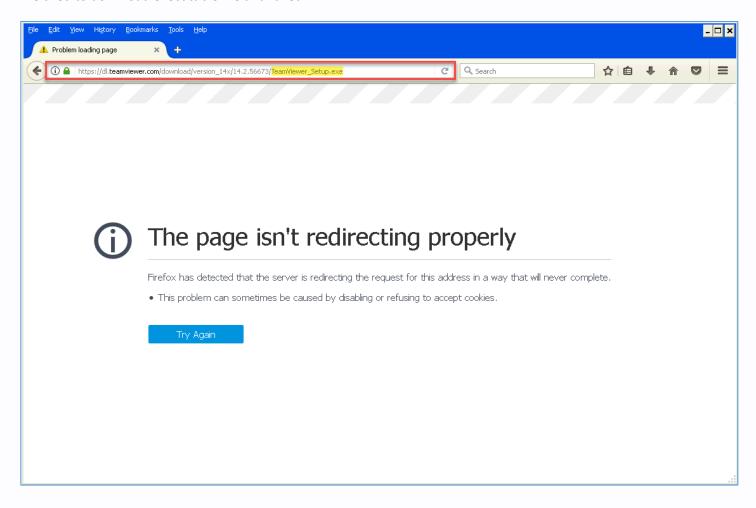








We tried to download executable file and failed.



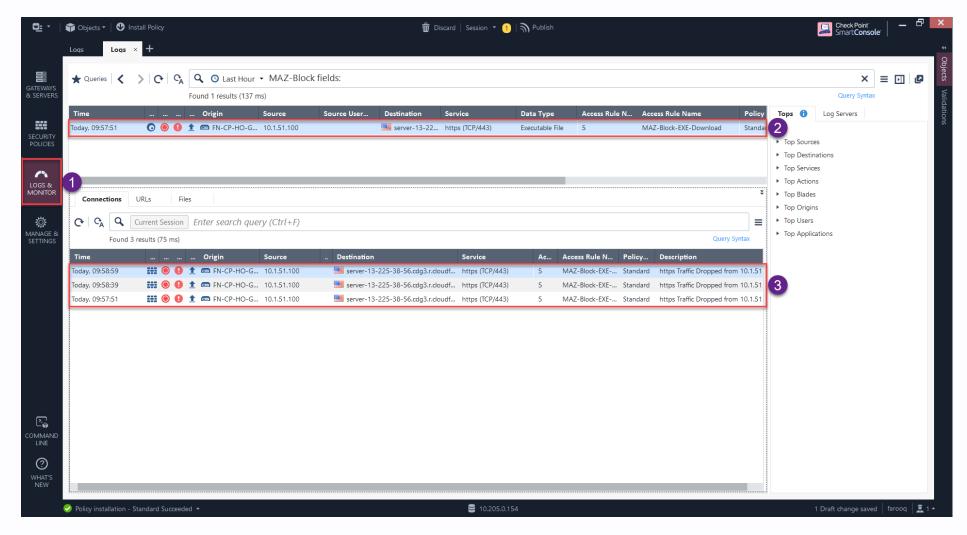


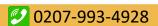


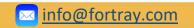


7.3 Step 3: Verification Via Logs

In SMS click on LOGS & MONITOR, here we can see logs.









Thanks, and Good Luck





