[Background]

The IPS is used for detecting the traffic from OSI layer $5\sim$ layer 7, administrators are able to prevent the intrusion from internet or intranet by setting up the IDP rules.

IPS with ZoneDefense feature is able to block some internal or internet intended users to breach the service servers.

The current example is trying to block the users who are intended to make the dictionary on the FTP server.



[Configuraion]

STEP1. Find the signature we want to apply via WebUI and then copy the string for creating the following IDP rule.

	17045	anonymous.USER.FTP.Policy
DFL-800	17048	SYST.FTP.Policy
o System	17049	PORT.FTP.Policy
- 📁 Objects	17050	FTP.FEATURE.A.POLICY
- 🙀 Rules	17051	PWD.FTP.Policy
- 🔂 Interfaces	17052	TYPE.FTP.Policy
- 🔯 Routing	17054	QUIT.FTP.Policy
- 🚰 IDP / IPS	17067	PASSIVE.A. FTP. POLICY
IDP Factory Signatures	17068	FTP.CWD.C.POLICY
IDP Rules	👘 🐔 17069	FTP.MKD.A.POLICY
- Ref Liser Authentication	1/0/2	FTP.CWD.A.POLICY
User Authentication	17072	FTP.CWD.A.POLICY FTP.CWD_INCOMING.C.POLICY
Construction	17072 17073 17078	FTP.CWD_INCOMING.CPOLICY FTP.CWD_INCOMING.CPOLICY FTP.CWD.BPOLICY
Iser Authentication Image: Comparison of	17072 17073 17078 17091	FTP.CWD.A.POLICY FTP.CWD_INCOMING.C.POLICY FTP.CWD.B.POLICY FTP.ABORT.A.POLICY
User Authentication Imagement Imagement Imagement Imagement Imagement Imagement Imagement	17072 17073 17078 17078 17091 17132	FTP.CWD.A.POLICY FTP.CWD_INCOMING.C.POLICY FTP.CWD.B.POLICY FTP.ABORT.A.POLICY REST.100.POLICY REST.100.POLICY
User Authentication Inaffic Management Inaffic Management Inaffic Management	17072 17073 17078 17078 17091 17132 17134	FTP.CWD.A.POLICY FTP.CWD_INCOMING.C.POLICY FTP.CWD.B.POLICY FTP.ABORT.A.POLICY REST.100.POLICY LIST.POLICY LIST.POLICY
i User Authentication i Traffic Management i ZoneDefense	17072 17073 17078 17091 17132 17134 17134	FIP: CWD_INCOMING.CPOLICY FTP: CWD_INCOMING.CPOLICY FTP: CWD.B.POLICY FTP.ABORT.A.POLICY REST.IPOLICY LIST.POLICY REST.I.POLICY
i User Authentication i Traffic Management i JoneDefense i JoneDefense	17072 17073 17078 17091 17132 17134 17144 17164	FIP.CWD_INCOMING.C.POLICY FTP.CWD_INCOMING.C.POLICY FTP.ABORT.A.POLICY FTP.ABORT.A.POLICY REST.100.POLICY LIST.POLICY REST.1.POLICY FTP.CWD_INCOMING.D.POLICY
i User Authentication i Traffic Management i ZoneDefense	17072 17073 17078 17091 17132 17134 17143 17143 17164 17214	FTP.CWD_APOLICY FTP.CWD_INCOMING.C.POLICY FTP.CWD.B.POLICY FTP.ABORT.A.POLICY REST.100.POLICY LIST.POLICY REST.1.POLICY FTP.CWD_INCOMING.D.POLICY FTP.CWD_INCOMING.A.POLICY

STEP2. Create rules via CLI.

set Address IP4Address InterfaceAddresses/wan1_ip Address=10.90.90.90 set Address IP4Address InterfaceAddresses/wan1net Address=10.90.90.0/24

add IDPRule SourceInterface=lan SourceNetwork=InterfaceAddresses/lannet DestinationInterface=wan1 DestinationNetwork=all-nets Service=ftp-passthrough Name=ftp-policy

cc IDPRule 1(ftp-policy) add IDPRuleAction Action=Protect Signatures=FTP.MKD.A.POLICY LogEnabled=Yes ZoneDefense=Yes BlackList=No // The string <u>FTP.MKD.A.POLICY</u> was copied from STEP1.

add ZoneDefenseSwitch dgs-3200-10 IP=192.168.1.100 SNMPCommunity=private Enabled=Yes

[Result]

1. Check if the PC1 was triggered by IPS rule via WebUI. Go to Status-->IDP/IPS Status.

ach searc	/ IPS Status	ching policy, Wildcard s	earches are done by u	sing '*' to match zero	or more arbitrary cha	iracters. "7 mate	ches one arbitrany charac
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	Source	Destination					
terface:							
^a Address	s:						
ort:							
vent:		Action:					
everity:	(Any) 💌	Category:	(Any)	-			
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						Pofr	esh Log Clearle
nternal Lo	ogging (11:1)					- Contraction	con Log orcar to

2.Check if the ZoneDefense was triggered via WebUI. Go to "Status"-->"ZoneDefense"

-	Blocked 🚽	Time 🚽	AlertType 🚽	RuleName 🚽	Description 🚽
	192.168.1.200	2010-10-21 09:31:33	Idrules	ftp-policy	Signature "FTP.MKD.A.POLICY

3. Check if the ACL was built on Switch.

DGS-3200-10:4#show access_profile Command: show access_profile

Access Profile Table

Total Unused Rule Entries:199 Total Used Rule Entries :1

Access Profile ID: 3	Type : IP
	=====
Owner : ACL MASK Option : Source IP MASK 255.255.255.255	
Access ID : 1 Ports : 1-10	Mode: Deny
192.168.1.200	
==============	=====
Unused Entries: 199	

4. Now the PC1 (192.168.1.200) shall not be able to access anywhere.