

## dns domain-lookup through dynamic-filter whitelist Commands

Γ

### dns domain-lookup

To enable the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands, use the **dns domain-lookup** command in global configuration mode. To disable DNS requests, use the **no** form of this command.

**dns domain-lookup** *interface\_name* 

no dns domain-lookup interface\_name

Syntax Description	<i>interface_name</i> Specifies the name of the configured interface.							
Defaults	No default behavio	or or values.						
Command Modes	The following table	e shows the n	nodes in whic	h you can enter	the comma	nd:		
			Firewall N	lode	Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Global configurati	ion	•		•		—	
Command History	Release Modification							
,	8.4(2)     This command was introduced.							
Usage Guidelines Examples	The command enal supported comman The following exam for the inside intert	nds. mple enable th		-		-	-	
	hostname(config)# <b>dns domain-lookup inside</b>							
Related Commands	Command		Description					
	clear configure di	ns	-	DNS command	ls.			
	dns server-group		Enters dns-s server group	erver-group mo	de, in whic	h you can con	figure a DNS	
	show running-configShows one or all the existing DNS server group configurations.dns-server group							

### dns expire-entry-timer

Γ

To remove the IP address of a resolved FQDN after its TTL expires, use the **dns expire-entry-timer** command in global configuration mode. To remove the timer, use the **no** form of this command.

dns expire-entry-timer minutes minutes

no dns expire-entry-timer minutes minutes

Syntax Description	<b>minutes</b> <i>minutes</i> Specifies the timer time in minutes. Valid values range from 1 to 65535 minutes.							
Defaults	By default, the DNS expire-ent	ry-timer value	e is 1 minute.					
Command Modes	The following table shows the r	nodes in whic	h you can enter	the comma	ind:			
		Firewall N	lode	Security C	Context			
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration mode	•		•				
Command History	Release Modi	figation						
Command History	ReleaseModification8.4(2)This command was introduced.							
Usage Guidelines	The command specifies the time to remove the IP address of a resolved FQDN after its TTL expires. When the IP address is removed, the ASA recompiles the tmatch lookup table.							
•	Specifying this command is only effective when the associated network object for the DNS is activated The default DNS expire-entry-timer value is 1 minute, which means that IP addresses are removed 1 minute after the TTL of the DNS entry expires.							
Note	The default setting might result TTL of common FQDN hosts, s DNS expire-entry timer value to maintaining security.	such as www.s	sample.com, is a	short time	period. You ca	n specify a long		
Examples	The following example remove: hostname(config)# <b>dns expire</b>			inutes:				

<b>Related Commands</b>	Command	Description
	clear configure dns	Removes all DNS commands.
	dns server-group	Enters dns-server-group mode, in which you can configure a DNS server group.
	show running-config dns-server group	Shows one or all the existing DNS server group configurations.

#### dns name-server

Γ

To configure a DNS server for the ASA, user the **dns name-server** command in global configuration mode. To remove the configuration, use the **no** form of this command.

**dns name-server** *ipv4\_addr* | *ipv6\_addr* 

no dns name-server ipv4\_addr | ipv6\_addr

Syntax Description	<i>ipv4_addr</i> Specifies the IPv4 address of the DNS server.							
	<i>ipv6_addr</i> Specifies the IPv6 address of the DNS server.							
Defaults	No default behav	vior or values.						
Command Modes	The following ta	ble shows the m	nodes in whic	h you can enter	the comma	ind:		
			Firewall N	lode	Security (	Context		
						Multiple		
	Command Mode	1	Routed	Transparent	Single	Context	System	
	Global configur	ation	•		•			
	<u></u>							
Command History	Release     Modification							
	8.4(2)This command was introduced.9.0(1)Support of IPv6 addresses was added.							
Usage Guidelines	Use this commar addresses for DN		DNS server a	ldress for the AS	SA. The AS	A supports bot	h IPv4 and IPv6	
Examples	The following example configures a DNS server with an IPv6 address:							
	hostname (config hostname (config hostname (config	g)# <b>dns name-s</b>	erver 8080: s 4	1:2::2				
	nostname (contig							
Related Commands	Command		Description					

Command	Description
dns server-group	Enters dns-server-group mode, in which you can configure a DNS server group.
show running-config dns-server group	Shows one or all the existing DNS server group configurations.

### dns poll-timer

Γ

To specify the timer during which the ASA queries the DNS server to resolve fully qualified domain names (FQDN) that are defined in a network object group, use the **dns poll-timer** command in global configuration mode. To remove the timer, use the **no** form of this command.

dns poll-timer minutes minutes

no dns poll-timer minutes minutes

Syntax Description	<b>minutes</b> <i>minutes</i> Specifies the timer in minutes. Valid values are from 1 to 65535 minutes.								
Defaults	By default, the DNS	timer is 240	minutes or a	4 hours.					
Command Modes	The following table s	shows the mo	des in whic	h you can enter	the comma	nd:			
			Firewall N	lode	Security C	ontext			
					-	Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Global configuration	n	•		•				
Command History	Release Modification								
	8.4(2)   This command was introduced.								
Usage Guidelines	This command specifies the timer during which the ASA queries the DNS server to resolve the FQDI that was defined in a network object group. A FQDN is resolved periodically when the poll DNS time has expired or when the TTL of the resolved IP entry has expired, whichever comes first. This command has effect only when at least one network object group has been activated.						poll DNS timer st.		
Examples	The following example sets the DNS poll timer to 240 minutes:								
	hostname(config)# (	dns poll-tim	mer minute:	s 240					
Related Commands	Command	[	Description						
	clear configure dns	i I	Removes al	DNS command	ls.				
	dns server-group		Enters dns-s server group	erver-group mo	de, in whic	h you can conf	ïgure a DNS		
	show running-confi dns-server group	ig S	Shows one of	or all the existing	g DNS serv	ver-group confi	gurations.		

### dns update

To start DNS lookup to resolve the designated hostnames without waiting for the expiration of the DNS poll timer, use the **dns update** command in privileged EXEC mode.

**dns update** [**host** *fqdn\_name*] [**timeout seconds** *seconds*]

Syntax Description	<b>host</b> fqdn_name	ost <i>fqdn_name</i> Specifies the fully qualified domain name of the host on which to run DNS updates.						
	timeout seconds     Specifies the timeout in seconds.       seconds     Seconds							
Defaults	By default, the time	eout is 30 seco	onds.					
Command Modes	The following table	e shows the m	odes in whic	h you can enter	the comma	nd:		
			Firewall N	lode	Security (	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Privileged EXEC n	node	•		•			
Command History	Release Modification							
	8.4(2)This command was introduced.							
Usage Guidelines	This command imn for the expiration o activated host group running, the ASA d	f the DNS pol ps and FQDN	ll timer. Whe hosts are se	en you run DNS lected for DNS 1	update wit ookup. Wh	hout specifying the comman	g an option, all nd finishes	
	When the update op is aborted after the update operation is	timer has exp	ired, another	syslog message	is generat	ed. Only one of		
Examples	The following exam hostname# <b>dns upd</b> hostname# hostname# [Done]	late	a DNS upda	ite:				

Γ

Related Commands	Command	Description
	clear configure dns	Removes all DNS commands.
	dns server-group	Enters dns-server-group mode, in which you can configure a DNS server group.
	show running-config dns-server group	Shows one or all the existing DNS server group configurations.

#### dns-group

To specify the DNS server to use for a WebVPN tunnel group, use the **dns-group** command in tunnel-group webvpn configuration mode. To restore the default DNS group, use the **no** form of this command.

dns-group name

no dns-group

Syntax Description	<i>name</i> Specifies the name of the DNS server group configuration to use for the tunnel group.								
Defaults	The default value is DefaultDNS.								
Command Modes	The following table shows the mo	odes in whic	ch you can enter	the comma	ind:				
		Firewall N	lode	Security (	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Tunnel-group webvpn-attributes configuration	•		•	_	_			
Command History	Release Modification								
	7.1(1) This co	mmand wa	s introduced.						
Usage Guidelines	The name can specify any DNS group. The <b>dns-group</b> command resolves the hostname to the appropriate DNS server for the tunnel group.								
	You configure the DNS group using the <b>dns server-group</b> command.								
Examples	The following example shows a cu "dnsgroup1": hostname(config)# tunnel-group hostname(config)# tunnel-group hostname(config-tunnel-webvpn hostname(config-tunnel-webvpn	p test typ p test web )# dns-gro	e webvpn vpn-attributes	specifies th	e use of the DI	NS group named			

Γ

Related Commands	Command	Description			
	clear configure dns Removes all DNS commands.				
	dns server-group	Enters dns-server-group mode, in which you can configure a DNS server group.			
	show running-config dns-server group	Shows one or all the existing DNS server group configurations.			
	tunnel-group webvpn-attributes	Enters the config-webvpn mode for configuring WebVPN tunnel group attributes.			

#### dns-guard

To enable the DNS guard function, which enforces one DNS response per query, use the **dns-guard** command in parameters configuration mode. To disable this feature, use the **no** form of this command.

dns-guard

no dns-guard

#### **Syntax Description** This command has no arguments or keywords.

DefaultsDNS guard is enabled by default. This feature can be enabled when the inspect dns command is<br/>configured even if a policy-map type inspect dns command is not defined. To disable, the no dns-guard<br/>command must explicitly be stated in the policy map configuration. If the inspect dns command is not<br/>configured, the behavior is determined by the global dns-guard command.

#### **Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Parameters configuration	•	•	•	•	_

 Release
 Modification

 7.2(1)
 This command was introduced.

**Usage Guidelines** The identification field in the DNS header is used to match the DNS response with the DNS header. One response per query is allowed through the ASA.

**Examples** The following example shows how to enable DNS guard in a DNS inspection policy map:

hostname(config)# policy-map type inspect dns preset\_dns\_map hostname(config-pmap)# parameters hostname(config-pmap-p)# dns-guard

Related Commands	Command	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.

Γ

Command	Description
policy-map	Creates a Layer 3/4 policy map.
show running-config policy-map	Display all current policy map configurations.

#### dns-server

To set the IP address of the primary and secondary DNS servers, use the **dns-server** command in group-policy configuration mode. To remove the attribute from the running configuration, use the **no** form of this command.

**dns-server** {**value** *ip\_address* [*ip\_address*] | **none**}

no dns-server

Syntax Description	noneSets the dns-server command to a null value, thereby allowing no DNS servers.Prevents inheriting a value from a default or specified group policy.							
	value <i>ip_address</i> Specifies the IP address of the primary and secondary DNS servers.							
Defaults	No default behavior	or values.						
Command Modes	The following table	shows the r	nodes in whic	ch you can enter	the comma	ind:		
			Firewall N	lode	Security (	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Group-policy confi	guration	•		•			
Command History	Release Modification							
	7.0(1)This command was introduced.							
Usage Guidelines	This command allows inheritance of a DNS server from another group policy. To prevent inheriting a server, use the <b>dns-server none</b> command. Each time you issue the <b>dns-server</b> command, you overwrite the existing setting. For example, if you configure DNS server x.x.x.x and then configure DNS server y.y.y.y, the second command overwrites the first, and y.y.y.y becomes the sole DNS server. The same holds true for multiple servers. To add a DNS server rather than overwrite previously configured servers, include the IP addresses of all DNS servers when you enter this command.							
Examples	The following exam 10.10.10.30, and 10 hostname(config)# hostname(config-g	.10.10.45 fc group-poli	or the group p	olicy named Firs	stGroup.			

Γ

Related Commands Command		Description			
	clear configure dns	Removes all DNS commands.			
	show running-config dns server-group	Shows the current running DNS server group configuration.			

### dns server-group

To specify the domain name, name server, number of retries, and timeout values for a DNS server to use for a tunnel group, use the **dns server-group** command in global configuration mode. To remove a particular DNS server group, use the **no** form of this command.

dns server -group name

no dns server-group

Syntax Description	<i>name</i> Specifies the name of the DNS server group configuration to use for the tunnel group.							
Defaults	The default value is Defa	aultDNS.						
Command Modes	The following table show	vs the modes in whic	h you can enter	the comma	nd:			
		Firewall M	lode	Security C	Context			
				Single •	Multiple			
	<b>Command Mode</b> Global configuration	Routed •	Transparent		Context	System		
command History	Release Modification							
	7.1(1)	This command was	introduced.					
Jsage Guidelines	The name can specify an command.	y DNS group. You c	onfigure the DN	S group us	ing the <b>dns ser</b>	ver-group		
Usage Guidelines Examples					ing the <b>dns ser</b>	ver-group		

Γ

Related Commands Command		Description				
	clear configure dns	Removes all DNS commands.				
	show running-config dns server-group	Shows the current running DNS server group configuration.				

### domain-name

To set the default domain name, use the **domain-name** command in global configuration mode. To remove the domain name, use the **no** form of this command.

domain-name name

no domain-name [name]

Syntax Description	<i>name</i> Sets the domain name, up to 63 characters.							
Defaults	The default domain name is default.domain.invalid.							
Command Modes	The following table sh	ows the modes in which	ch you can enter	the comma	nd:			
		Firewall Mode		Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Global configuration	•	•	•	•	•		
Command History	Release	Modification						
	7.0(1)     This command was introduced.							
Usage Guidelines	The ASA appends the domain name as a suffix to unqualified names. For example, if you set the doma name to "example.com" and specify a syslog server by the unqualified name of "jupiter," then the AS qualifies the name to "jupiter.example.com." For multiple context mode, you can set the domain nam for each context, as well as within the system execution space.							
Examples	The following example sets the domain to example.com:							
	hostname(config)# domain-name example.com							
Related Commands	Command	Description						
	dns domain-lookup	Enables the ASA t	1	-				
	dns name-server	Identifies a DNS s	erver for the $\overline{AS}$ .	А.				
	hostname	Sets the ASA host	name.					
	show running-config Shows the domain name configuration.							

domain-name

### domain-name (dns server-group)

ſ

To set the default domain name, use the **domain-name** command in dns server-group configuration mode. To remove the domain name, use the **no** form of this command.

domain-name name

no domain-name [name]

Syntax Description	name Sets the domain name, up to 63 characters.							
Defaults	The default domain name is default.domain.invalid.							
Command Modes	The following table shows the	modes in whic	ch you can enter	the comma	ınd:			
	Firewall Mode Security Context							
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Dns server-group configuration	n •	•	•	•	•		
ommand History	Release Modification							
		command rep ecated.	laces the <b>dns do</b>	main-look	<b>up</b> command,	which has beer		
Jsage Guidelines	The ASA appends the domain name to "example.com," and sp qualifies the name to "jupiter.c for each context, as well as wi	pecify a syslog xample.com."	server by the un For multiple cor	qualified n	ame of "jupiter	;" then the AS		
	The following example sets the domain to "example.com" for "dnsgroup1":							
xamples	The following example sets the	e domain to "e	xample.com" for	r "dnsgroup	o1":			
xamples	The following example sets the hostname(config)# dns serve hostname(config-dns-server-	er-group dnsg	roup1		o1":			
	hostname(config)# <b>dns serve</b> hostname(config-dns-server-	er-group dnsg group)# doma	roup1		p1":			
Examples Related Commands	hostname(config)# <b>dns serve</b> hostname(config-dns-server-	er-group dnsg	roup1 in-name example		p1":			

Command	Description
domain-name	Sets the default domain name globally.
show running-config dns-server group	Shows one or all the current DNS server group configurations.

### downgrade

Γ

To downgrade your software version, use the **downgrade** command in global configuration mode.

downgrade [/noconfirm] old\_image\_url old\_config\_url [activation-key old\_key]

the old ault this						
em						
Release Modification						
8.3(1)This command was introduced.						
This command is a shortcut for completing the following functions:						
1. Clearing the boot image configuration (clear configure boot).						
2. Setting the boot image to be the old image ( <b>boot system</b> ).						
<b>3.</b> (Optional) Entering a new activation key ( <b>activation-key</b> ).						
<ol> <li>Saving the running configuration to startup (write memory). This sets the BOOT environment variable to the old image, so when you reload, the old image is loaded.</li> </ol>						
config).						
config).						
config).						
<ul> <li>8.3(1) This command was introduced.</li> <li>This command is a shortcut for completing the following functions:</li> <li>1. Clearing the boot image configuration (clear configure boot).</li> <li>2. Setting the boot image to be the old image (boot system).</li> <li>3. (Optional) Entering a new activation key (activation-key).</li> </ul>						

#### Related Commands

nmands	Command	Description			
	activation-key	Enters an activation key.			
	boot system	Sets the image to boot from.			
	clear configure boot	Clears the boot image configuration.			
	copy startup-config	Copies a configuration to the startup configuration.			

### download-max-size

Γ

To specify the maximum size allowed for an object to download, use the **download-max-size** command in group-policy webvpn configuration mode. To remove this object from the configuration, use the **no** version of this command.

download-max-size size

no download-max-size

Syntax DescriptionsizeSpecifies the maximum size allowed for a downloaded object. The ran 0 through 2147483647.								
Defaults	The default size is 21474836	547.						
Command Modes	The following table shows the	ne modes in whic	h you can enter	the comma	nd:			
		Firewall N	lode	Security Context				
					Multiple			
	Command Mode	Routed	Transparent	Single	Context	System		
	Group-policy webvpn configuration mode	•		•				
Command History	Release Modification							
	8.0(2) Th	nis command was	s introduced.					
Usage Guidelines	Setting the size to 0 effective	ely disallows obj	ect downloading	<b>[</b> .				
Examples	The following example sets	the maximum siz	e for a downloa	ded object	to 1500 bytes:			
	hostname(config)# group-policy test attributes hostname(config-group-policy)# webvpn hostname(config-group-webvpn)# download-max-size 1500							
Related Commands	Command	Desc	ription					
	post-max-size	Spec	ifies the maxim	um size of a	an object to po	ost.		
	upload-max-size	Spec	ifies the maxim	um size of a	an object to up	load.		

Command	Description
webvpn	Use in group-policy configuration mode or in username configuration mode. Lets you enter webvpn mode to configure parameters that apply to group policies or usernames.
webvpn	Use in global configuration mode. Lets you configure global settings for WebVPN.

### drop

Γ

To drop all packets that match the **match** command or **class** command, use the **drop** command in match or class configuration mode. To disable this action, use the **no** form of this command.

drop [send-protocol-error] [log]

no drop [send-protocol-error] [log]

Syntax Description	log Logs the match. The syslog message number depends on the application.								
	send-protocol-error Sen	ds a protocol e	rror message.						
Defaults	No default behaviors or values	5.							
Command Modes	The following table shows the	modes in which	ch you can enter	the comma	ind:				
		Firewall N	Aode	Security (	Context				
					Multiple				
	Command Mode	Routed	Transparent		Context	System			
	Match and class configuration	1 •	•	•	•				
Command History	Release Modification								
<b>-</b>	7.2(1)   This command was introduced.								
Usage Guidelines	When using the Modular Policy Framework, drop packets that match a <b>match</b> command or class map by using the <b>drop</b> command in match or class configuration mode. This drop action is available in an inspection policy map (the <b>policy-map type inspect</b> command) for application traffic; however, not al applications allow this action.								
	An inspection policy map consists of one or more <b>match</b> and <b>class</b> commands. The exact commands available for an inspection policy map depends on the application. After you enter the <b>match</b> or <b>class</b> command to identify application traffic (the <b>class</b> command refers to an existing <b>class-map type inspect</b> command that in turn includes <b>match</b> commands), you can enter the <b>drop</b> command to drop all packets that match the <b>match</b> command or <b>class</b> command.								
	If you drop a packet, then no further actions are performed in the inspection policy map. For example, if the first action is to drop the packet, then it will never match any further <b>match</b> or <b>class</b> commands. If the first action is to log the packet, then a second action, such as dropping the packet, can occur. You can configure both the <b>drop</b> and the <b>log</b> action for the same <b>match</b> or <b>class</b> command, in which case the packet is logged before it is dropped for a given match.								
	policy-map command), you ca	When you enable application inspection using the <b>inspect</b> command in a Layer 3/4 policy map (the <b>policy-map</b> command), you can enable the inspection policy map that contains this action, for example enter the <b>inspect http http_policy_map</b> command where http_policy_map is the name of the inspection							

**Examples** The following example drops packets and sends a log when they match the HTTP traffic class map. If the same packet also matches the second **match** command, it will not be processed because it was already dropped.

```
hostname(config-cmap)# policy-map type inspect http http-map1
hostname(config-pmap)# class http-traffic
hostname(config-pmap-c)# drop log
hostname(config-pmap-c)# match req-resp content-type mismatch
hostname(config-pmap-c)# reset log
```

Related Commands	Commands	Description
	class	Identifies a class map name in the policy map.
	class-map type inspect	Creates an inspection class map to match traffic specific to an application.
	policy-map	Creates a Layer 3/4 policy map.
	policy-map type inspect	Defines special actions for application inspection.
	show running-config policy-map	Display all current policy map configurations.

drop

19-27

### drop-connection

ſ

When using the Modular Policy Framework, drop packets and close the connection for traffic that matches a **match** command or class map by using the **drop-connection** command in match or class configuration mode. To disable this action, use the **no** form of this command.

drop-connection [send-protocol-error] [log]

no drop-connection [send-protocol-error] [log]

Syntax Description	send-protocol-error Sends a protocol error message.							
	log	Logs the match. The system log message number depends on the application.						
Defaults	No default behaviors or	values.						
command Modes	The following table show	ws the m	odes in whic	h you can enter	the comma	nd:		
			Firewall <b>N</b>	lode	Security (	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Match and class configu	uration	•	•	•	•	_	
Command History	Release Modification							
	7.2(1)This command was introduced.							
Usage Guidelines	entering the ASA for the in an inspection policy r not all applications allow commands. The exact co After you enter the <b>mato</b> an existing <b>class-map ty</b> <b>drop-connection</b> comm command or <b>class</b> comm If you drop a packet or co map. For example, if the match any further <b>match</b> such as dropping the pace	e dropped map (the v this act: ommands ch or class vpe inspe and to dr nand. lose a con e first act n or class cket, can	connection policy-map ion. An inspo- available for s command op packets a nnection, the ion is to dro commands. occur. You c	introduced. hection database on the ASA. Any subsequent packets vill be discarded. This drop-connection action is availab ype inspect command) for application traffic; however ction policy map consists of one or more match and cla an inspection policy map depends on the application. b identify application traffic (the class command refers that in turn includes match commands), you can enter the d close the connection for traffic that matches the match a no further actions are performed in the inspection policy the packet and close the connection, then it will never f the first action is to log the packet, then a second action n configure both the drop-connection and the log action h case the packet is logged before it is dropped for a given				

When you enable application inspection using the **inspect** command in a Layer 3/4 policy map (the **policy-map** command), you can enable the inspection policy map that contains this action. For example, enter the **inspect http http\_policy\_map** command, where http\_policy\_map is the name of the inspection policy map.

#### **Examples**

The following example drops packets, closes the connection, and sends a log when they match the http-traffic class map. If the same packet also matches the second **match** command, it will not be processed because it was already dropped.

hostname(config-cmap)# policy-map type inspect http http-map1 hostname(config-pmap)# class http-traffic hostname(config-pmap-c)# drop-connection log hostname(config-pmap-c)# match req-resp content-type mismatch hostname(config-pmap-c)# reset log

Commands	Description
class	Identifies a class map name in the policy map.
class-map type inspect	Creates an inspection class map to match traffic specific to an application.
policy-map	Creates a Layer 3/4 policy map.
policy-map type inspect	Defines special actions for application inspection.
show running-config policy-map	Display all current policy map configurations.
	class class-map type inspect policy-map policy-map type inspect show running-config

### dtls port

Γ

To specify a port for DTLS connections, use the **dtls port** command from webvpn configuration mode. To remove the command from the configuration, use the **no** form of this command:

dtls port number

no dtls port number

Syntax Description	number	The UDP p	ort number, i	from 1 to 65535					
Defaults	The default port number	er is 443.							
Command Modes	The following table sh	ows the modes	s in which yo	ou can enter the	command:				
			Firewall N	lode	Security	Context			
						Multiple			
	Command Mode		Routed	Transparent	Single	Context	System		
	Webvpn configuration		•		•				
Command History	Release         Modification           8.0(2)         This command was introduced.								
Jsage Guidelines	This command specific DTLS avoids latency a performance of real-tir	nd bandwidth	problems ass	sociated with sor	ne SSL co	•			
Examples	The following example hostname(config)# we hostname(config-webv	bvpn	-	ion mode and sp	pecifies po	rt 444 for DT	LS:		
Related Commands	Command	Description							
	dtls enable	Enables DTL	.S on an inte	rface.					
	svc dtls			s or users establi	shing SSL	VPN connec	ctions.		
	vpn-tunnel-protocol			that the ASA all					

### duplex

To set the duplex of a copper (RJ-45) Ethernet interface, use the **duplex** command in interface configuration mode. To restore the duplex setting to the default, use the **no** form of this command.

duplex {auto | full | half}

no duplex

Syntax Description	auto Auto-detects the duplex mode.								
	fullSets the duplex mode to full duplex.								
	half	Sets the duplex mo	de to half duple	х.					
Defaults	The default is auto detect.								
Command Modes	The following table shows	the modes in whic	h you can enter	the comma	nd:				
		Firewall N	lode	Security (	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Interface configuration	•	•	•		•			
Command History	Release Modification								
	7.0(1)This command was moved from a keyword of the <b>interface</b> command to an interface configuration mode command.								
Usage Guidelines	Set the duplex mode on the physical interface only.								
	The <b>duplex</b> command is not available for fiber media. If your network does not support auto detection, set the duplex mode to a specific value.								
	For RJ-45 interfaces on the ASA 5500 series, the default auto-negotiation setting also includes the Auto-MDI/MDIX feature. Auto-MDI/MDIX eliminates the need for crossover cabling by performing an internal crossover when a straight cable is detected during the auto-negotiation phase. Either the speed or duplex must be set to auto-negotiate to enable Auto-MDI/MDIX for the interface. If you explicitly set both the speed and duplex to a fixed value, thus disabling auto-negotiation for both settings, then Auto-MDI/MDIX is also disabled.								
	If you set the duplex to anything other than <b>auto</b> on PoE ports, if available, then Cisco IP phones and Cisco wireless access points that do not support IEEE 802.3af will not be detected and supplied with power.								

#### Examples

ſ

The following example sets the duplex mode to full duplex:

```
hostname(config)# interface gigabitethernet0/1
hostname(config-if)# speed 1000
hostname(config-if)# duplex full
hostname(config-if)# nameif inside
hostname(config-if)# security-level 100
hostname(config-if)# ip address 10.1.1.1 255.255.255.0
hostname(config-if)# no shutdown
```

<b>Related Commands</b>	Command	Description
	clear configure interface	Clears all configuration for an interface.
	interface	Configures an interface and enters interface configuration mode.
	show interface	Displays the runtime status and statistics of interfaces.
	show running-config interface	Shows the interface configuration.
	speed	Sets the interface speed.

### dynamic-access-policy-config

To configure a DAP record and the access policy attributes associated with it, use the **dynamic-access-policy-config** command in global configuration mode. To remove an existing DAP configuration, use the **no** form of this command.

dynamic-access-policy-config name | activate

no dynamic-access-policy-config

Syntax Description	activate	Ac	tivates the D	AP selection con	nfigration f	ile.		
	name	1		ame of the DAP			up to 64	
		ch	aracters long	and cannot cont	ain spaces.			
Defaults	No default behavior o	or values.						
Command Modes	The following table sl	hows the m	odes in whic	h you can enter	the comma	nd:		
			Firewall N	lode	Security C	Context		
						Multiple		
	Command Mode		Routed	Transparent	Single	Context	System	
	Global configuration	(name)	•	•	•	•		
	Privileged EXEC (act	tivate)	•	•	•	•		
command History	Release	Modif	ication					
	8.0(2)	This c	ommand was	s introduced.				
	9.0(1)	Suppo	ort for multip	le context mode	was added.			
Jsage Guidelines	Use the <b>dynamic-acc</b> DAP records. To activ command with the <i>ac</i>	vate a DAP	selection co					
	When you use this command, you enter dynamic-access-policy-record mode, in which you can set attributes for the named DAP record. The commands you can use in dynamic-access-policy-record mode include the following:							
	• action							
	• description							
	• network-acl							
	<ul> <li>priority</li> </ul>							

#### • webvpn

**Examples** The following example shows how to configure the DAP record named user1:

hostname(config)# dynamic-access-policy-config user1

hostname(config-dynamic-access-policy-record)#

#### Related Commands Com

ſ

Command	Description
dynamic-access-policy-record	Populates the DAP record with access policy attributes.
show running-config	Displays the running configuration for all DAP records, or for
dynamic-access-policy-record	the named DAP record.

### dynamic-access-policy-record

To create a DAP record and populate it with access policy attributes, use the **dynamic-access-policy-record** command in global configuration mode. To remove an existing DAP record, use the **no** form of this command.

dynamic-access-policy-record name

no dynamic-access-policy-record name

Syntax Description	<i>name</i> Specifies the name of the DAP record. The name can be up to 64 characters long and cannot contain spaces.								
Defaults	No default behavior or value	es.							
Command Modes	The following table shows t	he modes in whic	h you can enter	the comma	nd:				
		Firewall N	lode	Security (	Context				
					Multiple				
	Command Mode	Routed	Transparent	Single	Context	System			
	Global configuration	•	•	•	—				
Command History	Release M	odification							
Commanu mistory	Nouncation       8.0(2)     This command was introduced.								
Usage Guidelines	Use the <b>dynamic-access-po</b> DAP records. When you use can set attributes for the nam dynamic-access-policy-reco • <b>action</b> (continue, term) • <b>description</b>	this command, yo ned DAP record. rd mode include	ou enter dynamic The commands the following:	c-access-po	licy-record mo				
	network-acl								
	• priority								
	• user-message								
	• webvpn								
Examples	The following example show hostname(config)# dynamic hostname(config-dynamic-a	c-access-policy	-record Finance		ce.				

Γ

<b>Related Commands</b>	Command	Description
	clear config	Removes all DAP records or the named DAP record.
	dynamic-access-policy-record	
	dynamic-access-policy-config url	Configures the DAP Selection Configuration file.
	show running-config	Displays the running configuration for all DAP records, or for
	dynamic-access-policy-record	the named DAP record.

#### dynamic-filter ambiguous-is-black

To treat Botnet Traffic Filter greylisted traffic as blacklisted traffic for dropping purposes, use the **dynamic-filter ambiguous-is-black** command in global configuration mode. To allow greylisted traffic, use the **no** form of this command.

dynamic-filter ambiguous-is-black

no dynamic-filter ambiguous-is-black

**Syntax Description** This command has no arguments or keywords.

**Defaults** This command is disabled by default.

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context			
			Single	Multiple	Multiple	
Command Mode	Routed	Transparent		Context	System	
Global configuration	•	•	•	•		

# Release Modification 8.2(2) This command was introduced.

# Usage Guidelines If you configured the dynamic-filter enable command and then the dynamic-filter drop blacklist command, this command treats greylisted traffic as blacklisted traffic for dropping purposes. If you do not enable this command, greylisted traffic will not be dropped.

Ambiguous addresses are associated with multiple domain names, but not all of these domain names are on the blacklist. These addresses are on the greylist.

**Examples** The following example monitors all port 80 traffic on the outside interface, and then drops blacklisted and greylisted traffic at a threat level of moderate or greater:

hostname(config)# access-list dynamic-filter\_acl extended permit tcp any any eq 80 hostname(config)# dynamic-filter enable interface outside classify-list dynamic-filter\_acl hostname(config)# dynamic-filter drop blacklist interface outside hostname(config)# dynamic-filter ambiguous-is-black
Γ

Related Commands	Command	Description		
	address	Adds an IP address to the blacklist or whitelist.		
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.		
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.		
	clear dynamic-filter reports	Clears Botnet Traffic filter report data.		
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.		
	dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.		
	dns server-group	Identifies a DNS server for the ASA.		
	dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.		
	dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.		
	dynamic-filter database find	Searches the dynamic database for a domain name or IP address.		
	dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.		
	dynamic-filter drop blacklist	Automatically drops blacklisted traffic.		
	dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.		
	dynamic-filter updater-client enable	Enables downloading of the dynamic database.		
	dynamic-filter use-database	Enables use of the dynamic database.		
	dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.		
	inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.		
	name	Adds a name to the blacklist or whitelist.		
	show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.		
	show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.		
	show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.		
	show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.		
	show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.		
	show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.		
	show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.		

### dynamic-filter blacklist

To edit the Botnet Traffic Filter blacklist, use the **dynamic-filter blacklist** command in global configuration mode. To remove the blacklist, use the **no** form of this command.

dynamic-filter blacklist

no dynamic-filter blacklist

Syntax Description	This command has no arguments or l	keywords.
--------------------	------------------------------------	-----------

**Defaults** No default behavior or values.

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode		Security Context	
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Global configuration	•	•	•	•	

```
        Release
        Modification

        8.2(1)
        This command was introduced.
```

**Usage Guidelines** After you enter the dynamic-filter blacklist configuration mode, you can manually enter domain names or IP addresses (host or subnet) that you want to tag as bad names in a blacklist using the **address** and **name** commands. You can also enter names or IP addresses in a whitelist (see the **dynamic-filter** whitelist command), so that names or addresses that appear on both the dynamic blacklist and whitelist are identified only as whitelist addresses in syslog messages and reports. Note that you see syslog messages for whitelisted addresses even if the address is not also in the dynamic blacklist.

Static blacklist entries are always designated with a Very High threat level.

When you add a domain name to the static database, the ASA waits 1 minute, and then sends a DNS request for that domain name and adds the domain name/IP address pairing to the *DNS host cache*. (This action is a background process, and does not affect your ability to continue configuring the ASA). We recommend also enabling DNS packet inspection with Botnet Traffic Filter snooping (see the **inspect dns dynamic-filter-snooping** command). The ASA uses Botnet Traffic Filter snooping instead of the regular DNS lookup to resolve static blacklist domain names in the following circumstances:

- The ASA DNS server is unavailable.
- A connection is initiated during the 1-minute waiting period before the ASA sends the regular DNS request.

I

If DNS snooping is used, when an infected host sends a DNS request for a name on the static database, the ASA looks inside the DNS packets for the domain name and associated IP address and adds the name and IP address to the DNS reverse lookup cache.

The static database lets you augment the dynamic database with domain names or IP addresses that you want to blacklist.

If you do not enable Botnet Traffic Filter snooping, and one of the above circumstances occurs, then that traffic will not be monitored by the Botnet Traffic Filter.

Note

This command requires ASA use of a DNS server; see the **dns domain-lookup** and **dns server-group** commands.

### Examples

The following example creates entries for the blacklist and whitelist:

```
hostname(config)# dynamic-filter blacklist
hostname(config-llist)# name bad1.example.com
hostname(config-llist)# name bad2.example.com
hostname(config-llist)# address 10.1.1.1 255.255.255.0
hostname(config-llist)# dynamic-filter whitelist
hostname(config-llist)# name good.example.com
hostname(config-llist)# name great.example.com
hostname(config-llist)# name awesome.example.com
hostname(config-llist)# address 10.1.1.2 255.255.255.255
```

<b>Related Commands</b>	Command	Description		
	address	Adds an IP address to the blacklist or whitelist.		
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.		
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.		
	clear dynamic-filter reports	Clears Botnet Traffic filter report data.		
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.		
	dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.		
	dns server-group	Identifies a DNS server for the ASA.		
	dynamic-filter ambiguous-is-black	Treats greylisted traffic as blacklisted traffic for action purposes.		
	dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.		
	dynamic-filter database find	Searches the dynamic database for a domain name or IP address.		
	dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.		
	dynamic-filter drop blacklist	Automatically drops blacklisted traffic.		
	dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.		
	dynamic-filter updater-client enable	Enables downloading of the dynamic database.		
	dynamic-filter use-database	Enables use of the dynamic database.		
	dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.		

1

Command	Description		
inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.		
name	Adds a name to the blacklist or whitelist.		
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.		
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.		
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.		
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.		
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.		
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.		
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.		

### dynamic-filter database fetch

To test the download of the dynamic database for the Botnet Traffic Filter, use the **dynamic-filter database fetch** command in privileged EXEC mode.

dynamic-filter database fetch

**Syntax Description** This command has no arguments or keywords.

**Defaults** No default behavior or values.

ſ

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall M	Firewall Mode		Security Context		
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•	•	

Command History	Release	Modification
	8.2(1)	This command was introduced.

**Usage Guidelines** The actual database is not stored on the ASA; it is downloaded and then discarded. Use this command for testing purposes only.

**Examples** The following example tests the download of the dynamic database: hostname# dynamic-filter database fetch

<b>Related Commands</b>	Command	Description
	address	Adds an IP address to the blacklist or whitelist.
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.
	clear dynamic-filter reports Clears Botnet Traffic filter report data.	Clears Botnet Traffic filter report data.
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.
	dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.
	dns server-group	Identifies a DNS server for the ASA.

1

Command	Description
dynamic-filter	Treats greylisted traffic as blacklisted traffic for action purposes.
ambiguous-is-black	
dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.
dynamic-filter database find	Searches the dynamic database for a domain name or IP address.
dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.
dynamic-filter drop blacklist	Automatically drops blacklisted traffic.
dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
dynamic-filter updater-client enable	Enables downloading of the dynamic database.
dynamic-filter use-database	Enables use of the dynamic database.
dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
inspect dns	Enables DNS inspection with Botnet Traffic Filter snooping.
dynamic-filter-snoop	
name	Adds a name to the blacklist or whitelist.
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

## dynamic-filter database find

Γ

To check if a domain name or IP address is included in the dynamic database for the Botnet Traffic Filter, use the **dynamic-filter database find** command in privileged EXEC mode.

dynamic-filter database find string

Syntax Description	stringThe string can be the complete domain name or IP address, or you can enter part of the name or address, with a minimum search string of 3 characters. Regular expressions are not supported for the database search.						
Defaults	No default behavior	or values.					
command Modes	The following table	shows the modes in which	ch you can enter	the comma	and:		
		Firewall	Mode	Security (	Context		
					Multiple	Multiple	
	<b>Command Mode</b>	Routed	Transparent	Single	Context	System	
	Privileged EXEC	•	•	•	•	•	
				·			
ommand History	Release Modification						
	8.2(1) This command was introduced.						
Jsage Guidelines	If there are multiple match, enter a longe	matches, the first two matches, the first two matches, the first two matches are string.	atches are shown	. To refine	your search for	r a more speci	
Examples	The following exam	ple searches on the string	g "example.com,	" and finds	one match:		
	hostname# dynamic-filter database find bad.example.com						
	bad.example.com Found 1 matches						
	The following example searches on the string "bad," and finds more than two matches:						
	hostname# dynamic-filter database find bad						
	bad.example.com	m					

ommands	Command	Description
	dynamic-filter ambiguous-is-black	Treats greylisted traffic as blacklisted traffic for action purposes.
ed Commands	dynamic-filter drop blacklist	Automatically drops blacklisted traffic.
	address	Adds an IP address to the blacklist or whitelist.
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.
	clear dynamic-filter reports	Clears Botnet Traffic filter report data.
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.
	dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.
	dns server-group	Identifies a DNS server for the ASA.
	dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.
	dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.
	dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.
	dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
	dynamic-filter updater-client enable	Enables downloading of the dynamic database.
	dynamic-filter use-database	Enables use of the dynamic database.
	dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
	inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
	name	Adds a name to the blacklist or whitelist.
	show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
	show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
	show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
	show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
	show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
	show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
	show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

### dynamic-filter database purge

To manually delete the Botnet Traffic Filter dynamic database from running memory, use the **dynamic-filter database purge** command in privileged EXEC mode.

dynamic-filter database purge

**Syntax Description** This command has no arguments or keywords.

**Defaults** No default behavior or values.

I

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context			
				Multiple	Multiple	
Command Mode	Routed	Transparent	Single	Context	System	
Privileged EXEC	•	•	•	•	•	

Command History	Release	Modification
	8.2(1)	This command was introduced.

**Usage Guidelines** The database files are stored in running memory; they are not stored in flash memory. If you need to delete the database, use the **dynamic-filter database purge** command.

Before you can purge the database files, disable use of the database using the **no dynamic-filter use-database** command.

**Examples** The following example disables use of the database, and then purges the database:

hostname(config)# no dynamic-filter use-database hostname(config)# dynamic-filter database purge

<b>Related Commands</b>	Command	Description
address Adds an IP address to the blacklist or		Adds an IP address to the blacklist or whitelist.
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.
	clear dynamic-filter reports	Clears Botnet Traffic filter report data.
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.

1

Command	Description
dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform
	a name lookup for supported commands.
dns server-group	Identifies a DNS server for the ASA.
dynamic-filter	Treats greylisted traffic as blacklisted traffic for action purposes.
ambiguous-is-black	
dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.
dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.
dynamic-filter database find	Searches the dynamic database for a domain name or IP address.
dynamic-filter drop blacklist	Automatically drops blacklisted traffic.
dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
dynamic-filter updater-client enable	Enables downloading of the dynamic database.
dynamic-filter use-database	Enables use of the dynamic database.
dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
name	Adds a name to the blacklist or whitelist.
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

### dynamic-filter drop blacklist

To automatically drop blacklisted traffic using the Botnet Traffic Filter, use the **dynamic-filter drop blacklist** command in global configuration mode. To disable the automatic dropping, use the **no** form of this command.

**dynamic-filter drop blacklist [interface** *name*] [action-classify-list *subset\_access\_list*] [threat-level {eq *level* | range *min max*}]

**no dynamic-filter drop blacklist** [interface *name*] [action-classify-list *subset\_access\_list*] [threat-level {eq *level* | range *min max*}]

Syntax Description	action-classify-list sub_access_list	(Optional) Identifies a subset of traffic that you want to drop . See the <b>access-list extended</b> command to create the access list.				
		The dropped traffic must always be equal to or a subset of the monitored traffic identified by the <b>dynamic-filter enable</b> command. For example, if you specify an access list for the <b>dynamic-filter enable</b> command, and you specify the <b>action-classify-list</b> for this command, then it must be a subset of the <b>dynamic-filter enable</b> access list.				
	interface name	(Optional) Limits monitoring to a specific interface. The dropped traffic must always be equal to or a subset of the monitored traffic identified by the <b>dynamic-filter enable</b> command.				
		Any interface-specific commands take precedence over the global command.				
	threat-level {eq level   range min max}	(Optional) Limits the traffic dropped by setting the threat level. If you do not explicitly set a threat level, the level used is <b>threat-level range moderate very-high</b> .				
		<b>Note</b> We highly recommend using the default setting unless you have strong reasons for changing the setting.				
		The <i>level</i> and <i>min</i> and <i>max</i> options are:				
		• very-low				
		• low				
		• moderate				
		• high				
		• very-high				
		<b>Note</b> Static blacklist entries are always designated with a Very High threat level.				

Defaults

ſ

This command is disabled by default.

The default threat level is threat-level range moderate very-high.

1

		Firewall N	lode	Security C	ontext		
					Multiple		
	Command Mode	Routed	Transparent	Single	Context	System	
	Global configuration	•	•	•	•	_	
Command History	Release Mo	dification					
	8.2(2) Thi	s command wa	s introduced.				
Usage Guidelines	Be sure to first configure a <b>dy</b> traffic must always be equal t			•	e you want to d	rop; the droppe	
	You can enter this command a specify overlapping traffic in a control the exact order that co command will be matched. Fo the <b>action-classify-list</b> keywo interface. In this case, the traffic Similarly, if you specify mult access list is unique, and that	nultiple comma ommands are m r example, do n rd) as well as a ic might never iple commands	nds for a given in atched, overlapp ot specify both a command with th natch the comma with the <b>action-</b>	iterface/glo ing traffic r command t and with the	bal policy. Bec neans you do r hat matches al <b>assify-list</b> key e <b>action-classi</b>	ause you canno not know which l traffic (withou word for a given <b>fy-list</b> keyword	
Examples	The following example monitors all port 80 traffic on the outside interface, and then drops traffic at a threat level of moderate or greater:						
	hostname(config)# access-list dynamic-filter_acl extended permit tcp any any eq 80 hostname(config)# dynamic-filter enable interface outside classify-list dynamic-filter_acl hostname(config)# dynamic-filter drop blacklist interface outside						
Palatad Commonda							
neialeu commanus	Command	Descripti	DN				
seraleu commanus	Command address	<b>Descripti</b> Adds an 1		blacklist or	r whitelist.		
terateu Commanus		Adds an 1	P address to the			on.	
verateu Commanus	address	Adds an l ter Clears the		Traffic Fil	ter configuration	on.	
Kelateu Commanus	address clear configure dynamic-filt clear dynamic-filter dns-sno	Adds an l eer Clears the oop Clears Bo	P address to the e running Botnet	Traffic Filter DNS sno	ter configuration	on.	
nelateu Commanus	address clear configure dynamic-filt	Adds an l cer Clears the cop Clears Bo Clears Bo	P address to the e running Botnet otnet Traffic Filte	Traffic File er DNS sno r report dat	ter configuration	on.	
nelateu Commanus	address clear configure dynamic-filt clear dynamic-filter dns-sno clear dynamic-filter reports	Adds an l cer Clears the cop Clears Bo Clears Bo cs Clears Bo Enables t	P address to the e running Botnet otnet Traffic Filte	Traffic File er DNS sno r report dat r statistics. DNS reques	ter configuration oping data. a. ts to a DNS se		
Related Commands	address clear configure dynamic-filt clear dynamic-filter dns-sno clear dynamic-filter reports clear dynamic-filter statisti	Adds an l cer Clears the cop Clears Bo Clears Bo Clears Bo Clears Bo Enables t a name lo	P address to the e running Botnet otnet Traffic Filte otnet Traffic filte otnet Traffic filte he ASA to send I	Traffic Filt er DNS sno r report dat r statistics. DNS reques ted comma	ter configuration oping data. a. ts to a DNS se nds.		
nelateu Commanus	address clear configure dynamic-filt clear dynamic-filter dns-sne clear dynamic-filter reports clear dynamic-filter statistic dns domain-lookup	Adds an l cer Clears the cop Clears Bo Clears Bo cs Clears Bo Enables t a name lo Identifies	P address to the e running Botnet otnet Traffic Filte otnet Traffic filte otnet Traffic filte he ASA to send I okup for suppor	Traffic Filter DNS sno r report dat r statistics. DNS requested commander the ASA.	ter configuration oping data. a. ts to a DNS sen nds.	rver to perform	
nelateu Commanus	address clear configure dynamic-filt clear dynamic-filter dns-sne clear dynamic-filter reports clear dynamic-filter statistic dns domain-lookup dns server-group dynamic-filter	Adds an l aer Clears the pop Clears Bo Clears Bo Clears Bo Clears Bo Enables t a name lo Identifies Treats gro	P address to the e running Botnet otnet Traffic Filte otnet Traffic filte otnet Traffic filte he ASA to send I okup for suppor a DNS server for	Traffic Filt er DNS sno r report dat r statistics. DNS reques ted comma or the ASA.	ter configuration oping data. a. ts to a DNS se nds. d traffic for act	rver to perform	

Γ

Command	Description
dynamic-filter database find	Searches the dynamic database for a domain name or IP address.
dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.
dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
dynamic-filter updater-client enable	Enables downloading of the dynamic database.
dynamic-filter use-database	Enables use of the dynamic database.
dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
name	Adds a name to the blacklist or whitelist.
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

## dynamic-filter enable

To enable the Botnet Traffic Filter, use the **dynamic-filter enable** command in global configuration mode. To disable the Botnet Traffic Filter, use the **no** form of this command.

**dynamic-filter enable** [interface name] [classify-list access\_list]

**no dynamic-filter enable** [interface *name*] [classify-list *access\_list*]

Syntax Description	classify-list access_list	<i>list</i> Identifies the traffic that you want to monitor using an extended access list (see the <b>access-list extended</b> command). If you do not create an access list, by default you monitor all traffic.				
	interface name	Limits monitoring	to a specific inte	erface.		
Defaults	The Botnet Traffic Filter	is disabled by defau	lt.			
Command Modes	The following table show	vs the modes in whic	ch you can enter	the comma	and:	
		Firewall N	lode	Security	Context	
					Multiple	
	Command Mode	Routed	Transparent	Single	Context	System
	Global configuration	•	•	•	•	
	8.2(1)	This command was	s introduced.			
Usage Guidelines	The Botnet Traffic Filter packet to the IP addresse host cache, and sends a s	s in the dynamic data	base, static datal	base, DNS		
	Malware is malicious so activity such as sending can be detected by the B address. The Botnet Traff of known bad domain na supplement the dynamic local "blacklist" or "whi	private data (passwo otnet Traffic Filter w fic Filter checks inco mes and IP addresse database with a stati	rds, credit card r when the malward ming and outgoin s, and then logs	numbers, k e starts a cong connection any suspic	ey strokes, or p onnection to a l ions against a d ious activity. Y	proprietary data) known bad IP ynamic databaso 'ou can also
	The DNS snooping is en Typically, for maximum use Botnet Traffic Filter database, the Botnet Trat dynamic database; doma	use of the Botnet Tra logging independent ffic Filter uses only t	offic Filter, you n Ily if desired. Wi the static databas	thout DNS thout DNS e entries, j	ble DNS snoop S snooping for t plus any IP add	ing, but you can the dynamic

#### **Botnet Traffic Filter Address Categories**

Addresses monitored by the Botnet Traffic Filter include:

- Known malware addresses—These addresses are on the "blacklist."
- Known allowed addresses—These addresses are on the "whitelist."
- Ambiguous addresses—These addresses are associated with multiple domain names, but not all of these domain names are on the blacklist. These addresses are on the "greylist."
- Unlisted addresses—These addresses are unknown, and not included on any list.

#### **Botnet Traffic Filter Actions for Known Addresses**

You can configure the Botnet Traffic Filter to log suspicious activity using the **dynamic-filter enable** command, and you can optionally configure it to block suspicious traffic automatically using the **dynamic-filter drop blacklist** command.

Unlisted addresses do not generate any syslog messages, but addresses on the blacklist, whitelist, and greylist generate syslog messages differentiated by type. The Botnet Traffic Filter generates detailed syslog messages numbered 338*nnn*. Messages differentiate between incoming and outgoing connections, blacklist, whitelist, or greylist addresses, and many other variables. (The greylist includes addresses that are associated with multiple domain names, but not all of these domain names are on the blacklist.)

See the syslog messages guide for detailed information about syslog messages.

**Examples** The following example monitors all port 80 traffic on the outside interface, and then drops traffic at a threat level of moderate or greater:

hostname(config)# access-list dynamic-filter\_acl extended permit tcp any any eq 80 hostname(config)# dynamic-filter enable interface outside classify-list dynamic-filter\_acl hostname(config)# dynamic-filter drop blacklist interface outside

whitelist.		
r configuration.		
ping data.		
to a DNS server to perform ls.		
Identifies a DNS server for the ASA.		
traffic for action purposes.		
t.		
Filter dynamic database.		
omain name or IP address.		
lter dynamic database.		

1

Command	Description
dynamic-filter updater-client enable	Enables downloading of the dynamic database.
dynamic-filter use-database	Enables use of the dynamic database.
dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
name	Adds a name to the blacklist or whitelist.
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

19-53

# dynamic-filter updater-client enable

To enable downloading of the dynamic database from the Cisco update server for the Botnet Traffic Filter, use the **dynamic-filter updater-client enable** command in global configuration mode. To disable downloading of the dynamic database, use the **no** form of this command.

dynamic-filter updater-client enable

no dynamic-filter updater-client enable

**Syntax Description** This command has no arguments or keywords.

**Defaults** Downloading is disabled by default.

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	lode	Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Global configuration	•	•	•	_	•

Command History	Release	Modification
	8.2(1)	This command was introduced.

Usage Guidelines

If you do not have a database already installed on the ASA, it downloads the database after approximately 2 minutes. The update server determines how often the ASA polls the server for future updates, typically every hour.

The Botnet Traffic Filter can receive periodic updates for the dynamic database from the Cisco update server.

This database lists thousands of known bad domain names and IP addresses. When the domain name in a DNS reply matches a name in the dynamic database, the Botnet Traffic Filter adds the name and IP address to the *DNS reverse lookup cache*. When the infected host starts a connection to the IP address of the malware site, then the ASA sends a syslog message informing you of the suspicious activity.

To use the database, be sure to configure a domain name server for the ASA so that it can access the URL. To use the domain names in the dynamic database, you need to enable DNS packet inspection with Botnet Traffic Filter snooping; the ASA looks inside the DNS packets for the domain name and associated IP address.

In some cases, the IP address itself is supplied in the dynamic database, and the Botnet Traffic Filter logs any traffic to that IP address without having to inspect DNS requests.

The database files are stored in running memory; they are not stored in flash memory. If you need to delete the database, use the **dynamic-filter database purge** command.

Note

This command requires ASA use of a DNS server; see the **dns domain-lookup** and **dns server-group** commands.

#### **Examples**

The following multiple mode example enables downloading of the dynamic database, and enables use of the database in context1 and context2:

```
hostname(config)# dynamic-filter updater-client enable
hostname(config)# changeto context context1
hostname/context1(config)# dynamic-filter use-database
hostname/context1(config)# changeto context context2
hostname/context2(config)# dynamic-filter use-database
```

The following single mode example enables downloading of the dynamic database, and enables use of the database:

```
hostname(config)# dynamic-filter updater-client enable
hostname(config)# dynamic-filter use-database
```

#### **Related Commands** Command Description address Adds an IP address to the blacklist or whitelist. clear configure dynamic-filter Clears the running Botnet Traffic Filter configuration. clear dynamic-filter dns-snoop Clears Botnet Traffic Filter DNS snooping data. clear dynamic-filter reports Clears Botnet Traffic filter report data. clear dynamic-filter statistics Clears Botnet Traffic filter statistics. dns domain-lookup Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands. Identifies a DNS server for the ASA. dns name-server dynamic-filter Treats greylisted traffic as blacklisted traffic for action purposes. ambiguous-is-black dynamic-filter blacklist Edits the Botnet Traffic Filter blacklist. dynamic-filter database fetch Manually retrieves the Botnet Traffic Filter dynamic database. dynamic-filter database find Searches the dynamic database for a domain name or IP address. dynamic-filter database purge Manually deletes the Botnet Traffic Filter dynamic database. Automatically drops blacklisted traffic. dynamic-filter drop blacklist Enables the Botnet Traffic Filter for a class of traffic or for all dynamic-filter enable traffic if you do not specify an access list. dynamic-filter use-database Enables use of the dynamic database. dynamic-filter whitelist Edits the Botnet Traffic Filter whitelist. inspect dns Enables DNS inspection with Botnet Traffic Filter snooping. dynamic-filter-snoop name Adds a name to the blacklist or whitelist.

Γ

Command	Description
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

### dynamic-filter use-database

To enable use of the dynamic database for the Botnet Traffic Filter, use the **dynamic-filter use-database** command in global configuration mode. To disable use of the dynamic database, use the **no** form of this command.

dynamic-filter use-database

no dynamic-filter use-database

Syntax Description This command	has no	arguments	or keywords.
---------------------------------	--------	-----------	--------------

**Defaults** Use of the database is disabled by default.

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall N	Firewall Mode		Security Context	
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Global configuration	•	•	•	•	

Command History	Release	Modification
	8.2(1)	This command was introduced.

**Usage Guidelines** Disabling use of the downloaded database is useful in multiple context mode, so you can configure use of the database on a per-context basis. To enable downloading of the dynamic database, see the **dynamic-filter updater-client enable** command.

**Examples** The following multiple mode example enables downloading of the dynamic database, and enables use of the database in context1 and context2:

```
hostname(config)# dynamic-filter updater-client enable
hostname(config)# changeto context context1
hostname/context1(config)# dynamic-filter use-database
hostname/context1(config)# changeto context context2
hostname/context2(config)# dynamic-filter use-database
```

The following single mode example enables downloading of the dynamic database, and enables use of the database:

```
hostname(config)# dynamic-filter updater-client enable
hostname(config)# dynamic-filter use-database
```

Γ

Related Commands	Command	Description
	address	Adds an IP address to the blacklist or whitelist.
	clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.
	clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.
	clear dynamic-filter reports	Clears Botnet Traffic filter report data.
	clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.
	dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.
	dns server-group	Identifies a DNS server for the ASA.
	dynamic-filter ambiguous-is-black	Treats greylisted traffic as blacklisted traffic for action purposes.
	dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.
	dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.
	dynamic-filter database find	Searches the dynamic database for a domain name or IP address.
	dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.
	dynamic-filter drop blacklist	Automatically drops blacklisted traffic.
	dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
	dynamic-filter updater-client enable	Enables downloading of the dynamic database.
	dynamic-filter whitelist	Edits the Botnet Traffic Filter whitelist.
	inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
	name	Adds a name to the blacklist or whitelist.
	show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the accelerated security path.
	show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
	show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
	show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
	show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
	show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
	show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.

### dynamic-filter whitelist

To edit the Botnet Traffic Filter whitelist, use the **dynamic-filter whitelist** command in global configuration mode. To remove the whitelist, use the **no** form of this command.

dynamic-filter whitelist

no dynamic-filter whitelist

Syntax Description	This command has no arguments o	r keywords.
--------------------	---------------------------------	-------------

**Defaults** No default behavior or values.

**Command Modes** The following table shows the modes in which you can enter the command:

	Firewall Mode		Security Context		
				Multiple	
Command Mode	Routed	Transparent	Single	Context	System
Global configuration	•	•	•	•	

Command History	Release	Modification
	8.2(1)	This command was introduced.

Usage Guidelines

The static database lets you augment the dynamic database with domain names or IP addresses that you want to whitelist. After you enter the dynamic-filter whitelist configuration mode, you can manually enter domain names or IP addresses (host or subnet) that you want to tag as good names in a whitelist using the **address** and **name** commands. Names or addresses that appear on both the dynamic blacklist and static whitelist are identified only as whitelist addresses in syslog messages and reports. Note that you see syslog messages for whitelisted addresses even if the address is not also in the dynamic blacklist. You can enter names or IP addresses in the static blacklist using the **dynamic-filter blacklist** command.

When you add a domain name to the static database, the ASA waits 1 minute, and then sends a DNS request for that domain name and adds the domain name/IP address pairing to the *DNS host cache*. (This action is a background process, and does not affect your ability to continue configuring the ASA). We recommend also enabling DNS packet inspection with Botnet Traffic Filter snooping (see the **inspect dns dynamic-filter-snooping** command). The ASA uses Botnet Traffic Filter snooping instead of the regular DNS lookup to resolve static blacklist domain names in the following circumstances:

- The ASA DNS server is unavailable.
- A connection is initiated during the 1 minute waiting period before the ASA sends the regular DNS request.

If DNS snooping is used, when an infected host sends a DNS request for a name on the static database, the ASA looks inside the DNS packets for the domain name and associated IP address and adds the name and IP address to the DNS reverse lookup cache.

If you do not enable Botnet Traffic Filter snooping, and one of the above circumstances occurs, then that traffic will not be monitored by the Botnet Traffic Filter.

```
۵,
Note
```

This command requires ASA use of a DNS server; see the dns domain-lookup and dns server-group commands.

#### **Examples**

The following example creates entries for the blacklist and whitelist:

```
hostname(config)# dynamic-filter blacklist
hostname(config-llist)# name bad1.example.com
hostname(config-llist)# name bad2.example.com
hostname(config-llist)# address 10.1.1.1 255.255.255.0
hostname(config-llist) # dynamic-filter whitelist
hostname(config-llist)# name good.example.com
hostname(config-llist)# name great.example.com
hostname(config-llist)# name awesome.example.com
hostname(config-llist)# address 10.1.1.2 255.255.255.255
```

### **Related Commands**

I

Command	Description
address	Adds an IP address to the blacklist or whitelist.
clear configure dynamic-filter	Clears the running Botnet Traffic Filter configuration.
clear dynamic-filter dns-snoop	Clears Botnet Traffic Filter DNS snooping data.
clear dynamic-filter reports	Clears Botnet Traffic filter report data.
clear dynamic-filter statistics	Clears Botnet Traffic filter statistics.
dns domain-lookup	Enables the ASA to send DNS requests to a DNS server to perform a name lookup for supported commands.
dns server-group	Identifies a DNS server for the ASA.
dynamic-filter ambiguous-is-black	Treats greylisted traffic as blacklisted traffic for action purposes.
dynamic-filter blacklist	Edits the Botnet Traffic Filter blacklist.
dynamic-filter database fetch	Manually retrieves the Botnet Traffic Filter dynamic database.
dynamic-filter database find	Searches the dynamic database for a domain name or IP address.
dynamic-filter database purge	Manually deletes the Botnet Traffic Filter dynamic database.
dynamic-filter drop blacklist	Automatically drops blacklisted traffic.
dynamic-filter enable	Enables the Botnet Traffic Filter for a class of traffic or for all traffic if you do not specify an access list.
dynamic-filter updater-client enable	Enables downloading of the dynamic database.
dynamic-filter use-database	Enables use of the dynamic database.
inspect dns dynamic-filter-snoop	Enables DNS inspection with Botnet Traffic Filter snooping.
name	Adds a name to the blacklist or whitelist.
show asp table dynamic-filter	Shows the Botnet Traffic Filter rules that are installed in the

Command	Description
show dynamic-filter data	Shows information about the dynamic database, including when the dynamic database was last downloaded, the version of the database, how many entries the database contains, and 10 sample entries.
show dynamic-filter dns-snoop	Shows the Botnet Traffic Filter DNS snooping summary, or with the <b>detail</b> keyword, the actual IP addresses and names.
show dynamic-filter reports	Generates reports of the top 10 botnet sites, ports, and infected hosts.
show dynamic-filter statistics	Shows how many connections were monitored with the Botnet Traffic Filter, and how many of those connections match the whitelist, blacklist, and greylist.
show dynamic-filter updater-client	Shows information about the updater server, including the server IP address, the next time the ASA will connect with the server, and the database version last installed.
show running-config dynamic-filter	Shows the Botnet Traffic Filter running configuration.