Standard IP ACL Syntax	Actions	
<pre>! Legacy syntax access-list <number> {permit   deny} <source/> [log] ! Modern syntax ip access-list standard {<number>   <name>}   [<sequence>] {permit   deny} <source/> [log]</sequence></name></number></number></pre>	permit	Allow matched packets
	deny	Deny matched packets
	remark	Record a config comment
	evaluate	Evaluate a reflexive ACL

## **Extended IP ACL Syntax**

```
! Legacy syntax
access-list <number> {permit | deny} <protocol> <source> [<ports>] <destination> [<ports>] [<options>]
! Modern syntax
ip access-list extended {<number> | <name>}
  [<sequence>] {permit | deny} <protocol> <source> [<ports>] <destination> [<ports>] [<options>]
```

- •				• • •	
	<b>ACL Numbers</b>	S	ource/Destination I	Definitions	
1220	1-99 IP standard	any Any address			
	-1999	host <address></address>	A single address		
	<b>0-199</b> IP extended	<network> <mask> Any address matched by the wildcard mask</mask></network>			
20	<b>0-299</b> Protocol	IP Options			
30	<b>0-399</b> DECnet	dscp <dscp> Match packets with the given DSCP value</dscp>			
40	<b>0-499</b> XNS	fragments	Check non-initial fragments		
50	<b>0-599</b> Extended XNS	option <option></option>	on <option> Match packets with the specified IP option</option>		
60	<b>0-699</b> Appletalk	precedence <0-7>	<b>0-7&gt;</b> Match packets with the given precedence value		
70	<b>0-799</b> Ethernet MAC	ttl <count></count>	Match packets with	the given Time To Live	
80	<b>0-899</b> IPX standard	TCP/UDP Port Definitions			
90	<b>0-999</b> IPX extended	eq <port> Eq</port>	ual to <b>neq <po< b=""></po<></b>	ort> Not equal to	
1000	<b>-1099</b> IPX SAP	lt <port> Le</port>	ss than <b>gt <por< b=""></por<></b>	t> Greater than	
1100-1199 MAC extended range <port> <port> <port> Matches a range of port numbers</port></port></port>					
1200	-1299 IPX summary	( summary Miscellaneous Options			
TCP Options		reflect <name> Create a reflexive ACL</name>			
ack	Match ACK flag	time-range <name> Enable rule only during the specified time range</name>			
fin	Match FIN flag	Applying ACLs to Restrict Traffic			
psh	Match PSH flag	interface FastEthernet0/0			
rst	Match RST flag	ip access-group { <number>   <name>} {in   out}</name></number>			
syn	Match SYN flag	Troubleshooting			
urg	Match URG flag	show access-lists { <number>   <name>}</name></number>			
<b>established</b> Match packets in a preestablished session		<pre>show ip access-lists {<number>   <name>}</name></number></pre>			
Logging Ontions		show ip access-lists interface <interface></interface>			
Logging Options Log ACL entry matches		show ip access-lists dynamic			
log-input Log matches with ingress		<pre>show ip interface [<interface>]</interface></pre>			
		<pre>show time-range [<name>]</name></pre>			

by Jeremy Stretch v1.1