

DNS Client Commands



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DNS Client Commands

clear host

Syntax	clear host {hostname / *}				
Parameters	hostname—Name of the host for which hostname-to-address mappings are to be deleted from the DNS client name-to-address cache.				
	*—Specifies that all the dynamic hostname-to-address mappings are to be deleted from the DNS client name-to-address cache.				
Default Configuration	No hostname-to-address mapping entries are deleted from the DNS clientname-to-address cache.				
Command Mode	Privileged EXEC mode.				
Usage	Use the clear host command in privileged EXEC mode to delete dynamic hostname-to-address mapping entries from the DNS client name-to-addresscache.				
Example	The following example deletes all dynamic entries from the DNS client name-to-address cache.				
	switchxxxxxx# clear host *				
User Guideline	To remove the dynamic entry that provides mapping information for a single hostname, use the hostname argument. To remove all the dynamic entries, use the* keyword. To define a static hostname-to-address mappings in the DNS hostname cache, use the ip host command. To delete a static hostname-to-address mappings in the DNS hostname cache, use the no ip host command.				



Ip domain lookup

Syntax	ip domain lookup no ip domain lookup				
Parameters	N/A				
Default Configuration	Enabled.				
Command Mode	Global Configuration mode.				
Usage	Use the ip domain lookup command in Global Configuration mode to enable the IPDomain Naming System (DNS)-based host name-to-address translation. To disable the DNS, use the no form of this command.				
Example	The following example enables DNS-based host name-to-address translation. switchxxxxxx(config)# ip domain lookup				
User Guideline	-				



ip domain name

Syntax	ip domain name name				
	no ip domain name				
Parameters	name—Default domain name used to complete unqualified host names. Do not include the initial period that separates an unqualified name from the domain name. Length: 1–158 characters. Maximum label length of each domain level is 63 characters.				
Default	No default domain name is defined.				
Configuration					
Command Mode	Global Configuration mode.				
Usage	Use the ip domain name command in Global Configuration mode.				
Usage	to define a default domain name that the switch uses to complete				
	unqualified hostnames(names without a dotted-decimal domain				
	name).				
	To delete the static defined default domain name, use the no form				
	of this command.				
Example	The following example defines the default domain name as				
	'www.website.com'.				
	cwitchyoogov(config)# in domain name website com				
	switchxxxxxx(config)# ip domain name website.com				
User Guideline	Any IP hostname that does not contain a domain name (that is, any				
	name without a dot) will have the dot and the default domain name				
	appended to it before being added to the host table.				
	Domain names and host names are restricted to the ASCII letters A				
	through Z (case-insensitive), the digits 0 through 9, the underscore				
	and the hyphen. A period(.) is used to separate labels.				
	The maximum size of each domain level is 63 characters. The				
	maximum name size is 158 bytes.				



ip domain polling-interval

Syntax	ip domain polling-interval seconds no ip domain polling-interval					
Parameters	seconds—Polling interval in seconds. The range is from (2*(R+1)*T) to 3600.					
Default Configuration	The default value is 2 * (R+1) * T, where R is a value configured by the ip domain retry command. T is a value configured by the ip domain timeout command.					
Command Mode	Global Configuration mode.					
Usage	Use the ip domain polling-interval command in Global Configuration mode to specify the polling interval. Use the no form of this command to return to the default behavior.					
Example	The following example shows how to configure the polling interval of 100 seconds: switchxxxxxx(config)# ip domain polling-interval 100					
User Guideline	Some applications communicate with the given IP address continuously. DNS clients for such applications, which have not received resolution of the IP addressor have not detected a DNS server using a fixed number of retransmissions, return an error to the application and continue to send DNS Request messages for the IP address using the polling interval.					



ip domain retry

Syntax	ip domain retry number no ip domain retry					
Parameters	<i>number</i> —Number of times to retry sending a DNS query to the DNS server. The range is from 0 to 16.					
Default Configuration	The default value is 1.					
Command Mode	Global Configuration mode.					
Usage	Use the ip domain retry command in Global Configuration mode to specify the number of times the device will send Domain Name System (DNS) queries when there is no replay. To return to the default behavior, use the no form of this command.					
Example	The following example shows how to configure the switch to send out 10 DNS queries before giving up: switchxxxxxx(config)# ip domain retry 10					
User Guideline The number argument specifies how many times the D be sent to a DNS server until the switch decides the server does not exist.						



ip domain timeout

Syntax	ip domain timeout seconds no ip domain timeout				
Parameters	seconds—Time, in seconds, to wait for a response to a DNS query. The range is from 1 to 60.				
Default Configuration	The default value is 2 seconds.				
Command Mode	Global Configuration mode.				
Usage	Use the ip domain timeout command in Global Configuration mode to specify the amount of time to wait for a response to a DNS query. To return to the default behavior, use the no form of this command.				
Example	The following example shows how to configure the switch to wait 50 seconds for a response to a DNS query: switchxxxxxx(config)# ip domain timeout 50				
User Guideline	Use the command to change the default time out value. Use the no form of this command to return to the default time out value.				



ip host

Syntax	ip host hostname address1 [address2address8] no ip host name ip host name [address1address8]				
Parameters	hostname—Name of the host. (Length: 1–158 characters. Maximum label length of each domain level is 63 characters). address1—Associated host IP address (IPv4 or IPv6, if IPv6 stack is supported). address2address8—Up to seven additional associated IP addresses, delimited by a single space (IPv4 or IPv6, if IPv6 stack is supported).				
Default Configuration	No host is defined.				
Command Mode	Global Configuration mode.				
Usage	Use the ip host Global Configuration mode command to define the static host name-to-address mapping in the DNS host name cache. Use the no form of this command to remove the static host name-to-address mapping.				
Example	The following example defines a static host name-to-address mapping in the host cache. switchxxxxxx(config)# ip host accounting.website.com176.10.23.1				
User Guideline	Host names are restricted to the ASCII letters A through Z (case-insensitive), the digits 0 through 9, the underscore and the hyphen. A period (.) is used to separate labels. An IP application will receive the IP addresses in the following order: IPv6 addresses in the order specified by the command. IPv4 addresses in the order specified by the command. Use the no format of the command with the address1address8 argument to delete the specified addresses. The entry is deleted if all its addresses are deleted.				



ip name-server

Syntax	ip name-server server1-address [server-address2erver-address8] no ip name-server [server-address1server-address8]					
Parameters	server-address1—IPv4 or IPv6 addresses of a single name server. server-address2server-address8—IPv4 or IPv6 addresses of additional name servers.					
Default Configuration	No name server IP addresses are defined.					
Command Mode	Global Configuration mode.					
Usage	Use the ip name-server command in Global Configuration mode to specify the address of one or more name servers to use for name and address resolution. Use the no form of this command to remove the static specified addresses.					
Example	The following example shows how to specify IPv4 hosts 172.16.1.111, 172.16.1.2, and IPv6 host 2001:0DB8::3 as the name servers: switchxxxxxx(config)#ip name-server 172.16.1.111 172.16.1.2 2001:0DB8::3					
User Guideline	The preference of the servers is determined by the order in which they were entered. Each ip name-server command replaces the configuration defined by the previous one (if one existed).					



show hosts

Syntax	show hosts [all hostname]					
Parameters	all—The specified host name cache information is to be displayed					
	for all configured DNS views. This is the default.					
	hostnam	e—The specifie	ed host name ca	che information displayed		
	is to be li	mited to entrie	s for a particular	host name.		
Default	Default is	s all.				
Configuration						
Command Mode	Privilege	Privileged EXEC mode.				
Usage	Use the s	Use the show hosts command in privileged EXEC mode to display				
	the defau	the default domain name, the style of name lookup service, a list of				
	name se	erver hosts, a	and the cached	list of hostnames and		
	addresse	addresses.				
Example	The follo	The following is sample output with no parameters specified:				
	switchxxx	xxx# show ho	sts			
	Name/ac	Name/addresslookupisenabled				
	Domain 7	Domain Timeout: 3 seconds Domain Retry: 4 times				
	Domain F	Polling Interval:	10 seconds			
	Default D	omain Table				
	Source	Interface	Preference	Domain		
	Static			website.com		
	dhcpv6	vlan 100	1	qqtca.com		
	dhcpv6	vlan 100	2	company.com		
	dhcpv6	vlan1100	1	pptca.com		
	Name Ser		5 (15.4.1.1		
	Source	Interface	Preference	IP Address		
	Static		1	192.0.2.204		
	Static		2	192.0.2.205		
	Static	la = 1001	3	192.0.2.105		
	dhcpv6 vlan1001 2002:0:22AC::11:231A:0BB4					
	DHCPv4 vlan1 1 192.1.122.20 DHCPv4 vlan1 2 154.1.122.20					
	DHCPv4 vlan1 2 154.1.122.20 Casche Table					
	Flags: (static/dynamic, OK/Ne/??)					
	OK-Okay, Ne-Negative Cache, ??-No Response Host Flag					
	Address; Ageinpreference order					
	example1.company.com (dynamic, OK) 2002:0:130F::0A0:1504:0BB4;1					
	112.0.2.10	•	-			
	176.16.8.8;123 124 173.0.2.30;39					
	example2.company.com (dynamic, ??) example3.company.com					
	(static, OK) 120.0.2.27 example4.company.com(dynamic,OK)24					
	173.0.2.30;15example5.company.com (dynamic, Ne);12					
User Guideline	This command displays the default domain name, a list of name					
	server hosts, and the cached list of host names and addresses.					