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## I Commands

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This chapter describes the system management commands that begin with I.

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## ip access-list (session)

To create an IPv4 access control list (ACL) within a configuration session, use the **ip access-list** command. To remove an ACL from a configuration session, use the **no** form of this command.

**ip access-list** *ACL-name*

**no ip access-list** *ACL-name*

| Syntax Description | <i>ACL-name</i> | Name of the IPv4 ACL. The name can be up to 64 alphanumeric characters and cannot contain a space or quotation mark. |
|--------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|
|--------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|

| Command Default | No IPv4 ACLs are defined by default. |
|-----------------|--------------------------------------|
|-----------------|--------------------------------------|

| Command Modes | Global session configuration mode |
|---------------|-----------------------------------|
|---------------|-----------------------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 4.0(0)N1(1) | This command was introduced. |

| Examples | This example shows how to create an IPv4 ACL for a configuration session: |
|----------|---------------------------------------------------------------------------|
|----------|---------------------------------------------------------------------------|

```
switch# configure session MySession1
switch(config-s)# ip access-list myACL
switch(config-s-acl)#
```

| Related Commands | Command                           | Description                              |
|------------------|-----------------------------------|------------------------------------------|
|                  | <b>configure session</b>          | Creates a configuration session.         |
|                  | <b>deny</b>                       | Configures a deny rule in an IPv4 ACL.   |
|                  | <b>permit</b>                     | Configures a permit rule in an IPv4 ACL. |
|                  | <b>show configuration session</b> | Displays the contents of the session.    |

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## ip dns source-interface

To configure the source interface for the Domain Name Server (DNS) domain lookup, use the **ip dns source-interface** command. To revert to the default settings, use the **no** form of this command.

**ip dns source-interface** { **ethernet** *slot/port* | **loopback** *intf-num* } [**vrf** { *vrf-name* | **default** | **management** }]

**no ip dns source-interface** { **ethernet** *slot/port* | **loopback** *intf-num* } [**vrf** { *vrf-name* | **default** | **management** }]

| Syntax Description               |  |                                                                                                                                         |
|----------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|
| <b>ethernet</b> <i>slot/port</i> |  | Specifies the Ethernet interface to use as the source interface. The slot number is from 1 to 255 and the port number is from 1 to 128. |
| <b>loopback</b> <i>intf-num</i>  |  | Specifies the loopback interface to use as the source interface. The range of values is from 0 to 1023.                                 |
| <b>vrf</b>                       |  | (Optional) Specifies the virtual routing and forwarding (VRF) instance.                                                                 |
| <i>vrf-name</i>                  |  | (Optional) VRF name. The name is case sensitive and can be a maximum of 32 characters.                                                  |
| <b>default</b>                   |  | (Optional) Specifies the default VRF.                                                                                                   |
| <b>management</b>                |  | (Optional) Specifies the management VRF.                                                                                                |

| Command Default | None |
|-----------------|------|
|-----------------|------|

| Command Modes | Global configuration mode |
|---------------|---------------------------|
|---------------|---------------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.1(3)N1(1) | This command was introduced. |

| Usage Guidelines | This command does not require a license. |
|------------------|------------------------------------------|
|------------------|------------------------------------------|

| Examples | <p>This example shows how to configure an Ethernet interface as the source interface for a DNS lookup:</p> <pre>switch# configure terminal switch(config)# ip dns source-interface ethernet 1/5 switch(config)#</pre> |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Related Commands | Command                             | Description                                           |
|------------------|-------------------------------------|-------------------------------------------------------|
|                  | <b>ip domain-lookup</b>             | Enables the DNS lookup feature.                       |
|                  | <b>show ip dns source-interface</b> | Displays information about the DNS source interfaces. |

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## ip domain-list

To configure the IP domain list, use the **ip domain-list** command. To disable the IP domain list, use the **no** form of the command.

**ip domain-list** *domain-name* [**use-vrf** *name*]

**no ip domain-list** *domain-name* [**use-vrf** *name*]

|                           |                            |                                                                                                                                                                                                             |
|---------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Syntax Description</b> | <b>domain-list</b>         | Specifies the domain name for the IP domain list. The name can be any case-sensitive, alphanumeric string up to 63 characters.                                                                              |
|                           | <b>use-vrf</b> <i>name</i> | (Optional) Specifies the virtual routing and forwarding (VRF) to use to resolve the domain domain name for the IP domain list. The name can be any case-sensitive, alphanumeric string up to 32 characters. |

**Command Default** None

**Command Modes** Global configuration mode  
VRF context configuration mode

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 5.0(3)N1(1)    | This command was introduced. |

**Usage Guidelines** Use the **ip domain-list** command to configure additional domain names for the device. Use the **vrf context** command to enter the VRF context mode to configure additional domain names for a particular VRF.

**Examples** This example shows how to configure the IP domain list for the default VRF:

```
switch# config terminal
switch(config)# ip domain-list Mysite.com
```

This example shows how to configure the IP domain list for the management VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# ip domain-list Mysite.com
```

This example shows how to configure the IP domain list for the default VRF to use the management VRF as a backup if the domain name cannot be resolved through the default VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# exit
switch(config)# ip domain-name Mysite.com use-vrf management
switch(config)# ip name-server 192.0.2.1
switch(config)# ip domain-list Mysite2.com
```

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**Related Commands**

| Command    | Description                                                  |
|------------|--------------------------------------------------------------|
| show hosts | Displays information about the IP domain name configuration. |

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# ip domain-lookup

To enable the Domain Name Server (DNS) lookup feature, use the **ip domain-lookup** command. Use the **no** form of this command to disable this feature.

**ip domain-lookup**

**no ip domain-lookup**

|                           |                                            |
|---------------------------|--------------------------------------------|
| <b>Syntax Description</b> | This command has no arguments or keywords. |
|---------------------------|--------------------------------------------|

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                           |
|----------------------|---------------------------|
| <b>Command Modes</b> | Global configuration mode |
|----------------------|---------------------------|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 5.0(3)N1(1)    | This command was introduced. |

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| <b>Usage Guidelines</b> | Use the <b>ip domain-lookup</b> command to enable DNS. |
|-------------------------|--------------------------------------------------------|

|                 |                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Examples</b> | <p>This example shows how to configure the DNS server lookup feature:</p> <pre> switch# <b>config terminal</b> switch(config)# <b>vrf context management</b> switch(config-vrf)# <b>exit</b> switch(config)# <b>ip domain-name Mysite.com use-vrf management</b> switch(config)# <b>ip name-server 192.0.2.1</b> switch(config)# <b>ip domain-lookup</b> switch(config)# </pre> |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                         |                   |                                     |
|-------------------------|-------------------|-------------------------------------|
| <b>Related Commands</b> | <b>Command</b>    | <b>Description</b>                  |
|                         | <b>show hosts</b> | Displays information about the DNS. |

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## ip domain-name

To configure a domain name, use the **ip domain-name** command. To delete a domain name, use the **no** form of the command.

**ip domain-name** *domain-name* [**use-vrf** *name*]

**no ip domain-name** *domain-name* [**use-vrf** *name*]

|                    |                            |                                                                                                                                                                               |
|--------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Syntax Description | <i>domain-name</i>         | Domain name. The name can be any case-sensitive, alphanumeric string up to 63 characters.                                                                                     |
|                    | <b>use-vrf</b> <i>name</i> | (Optional) Specifies the virtual routing and forwarding (VRF) to use to resolve the domain name. The name can be any case-sensitive, alphanumeric string up to 32 characters. |

|                 |      |
|-----------------|------|
| Command Default | None |
|-----------------|------|

|               |                                                             |
|---------------|-------------------------------------------------------------|
| Command Modes | Global configuration mode<br>VRF context configuration mode |
|---------------|-------------------------------------------------------------|

| Command History | Release     | Modification                 |
|-----------------|-------------|------------------------------|
|                 | 5.0(3)N1(1) | This command was introduced. |

|                  |                                                                                                                                                                                                             |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Usage Guidelines | Use the <b>ip domain-name</b> command to configure the domain name for the device. Use the <b>vrf context</b> command to enter the VRF context mode to configure the domain monastery for a particular VRF. |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|          |                                                                             |
|----------|-----------------------------------------------------------------------------|
| Examples | This example shows how to configure the IP domain name for the default VRF: |
|----------|-----------------------------------------------------------------------------|

```
switch# config terminal
switch(config)# ip domain-name Mysite.com
switch(config)#
```

This example shows how to configure the IP domain name for the management VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# ip domain-name Mysite.com
switch(config-vrf)#
```

This example shows how to configure the IP domain name for the default VRF to use the management VRF as a backup if the domain name cannot be resolved through the default VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# exit
switch(config)# ip domain-name Mysite.com use-vrf management
```

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**Related Commands**

| Command                 | Description                                                  |
|-------------------------|--------------------------------------------------------------|
| <b>ip domain-list</b>   | Configures the IP domain list.                               |
| <b>ip domain-lookup</b> | Enables the Domain Name Server (DNS) lookup feature.         |
| <b>show hosts</b>       | Displays information about the IP domain name configuration. |

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## ip host

To define static hostname-to-address mappings in the Domain Name System (DNS) hostname cache, use the **ip host** command. To remove a hostname-to-address mapping, use the **no** form of this command.

**ip host** *name* *address1* [*address2*... *address6*]

**no ip host** *name* *address1* [*address2*... *address6*]

|                           |                                     |                                                                                               |
|---------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Syntax Description</b> | <i>name</i>                         | Hostname. The <i>name</i> can be any case-sensitive, alphanumeric string up to 80 characters. |
|                           | <i>address1</i>                     | IPv4 address in the x.x.x.x format.                                                           |
|                           | <i>address2</i> ... <i>address6</i> | (Optional) Up to five additional IPv4 addresses in the x.x.x.x format.                        |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                           |
|----------------------|---------------------------|
| <b>Command Modes</b> | Global configuration mode |
|----------------------|---------------------------|

|                        |                |                              |
|------------------------|----------------|------------------------------|
| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|                        | 5.0(3)N1(1)    | This command was introduced. |

|                         |                                                                 |
|-------------------------|-----------------------------------------------------------------|
| <b>Usage Guidelines</b> | Use the <b>ip host</b> command to add a static hostname to DNS. |
|-------------------------|-----------------------------------------------------------------|

|                 |                                                            |
|-----------------|------------------------------------------------------------|
| <b>Examples</b> | This example shows how to configure a static hostname:     |
|                 | <pre>switch(config)# ip host mycompany.com 192.0.2.1</pre> |

|                         |                   |                                                              |
|-------------------------|-------------------|--------------------------------------------------------------|
| <b>Related Commands</b> | <b>Command</b>    | <b>Description</b>                                           |
|                         | <b>show hosts</b> | Displays information about the IP domain name configuration. |

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## ip name-server

To configure a name server, use the **ip name-server** command. To disable this feature, use the **no** form of the command.

**ip name-server** *ip-address* [**use-vrf** *name*]

**no ip name-server** *ip-address* [**use-vrf** *name*]

|                           |                            |                                                                                                                                                                             |
|---------------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Syntax Description</b> | <i>ip-address</i>          | IP address for the name server.                                                                                                                                             |
|                           | <b>use-vrf</b> <i>name</i> | (Optional) Specifies the virtual routing and forwarding (VRF) to use to reach the name-server. The name can be any case-sensitive, alphanumeric string up to 32 characters. |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Command Modes</b> | Global configuration mode<br>VRF context configuration mode |
|----------------------|-------------------------------------------------------------|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 5.0(3)N1(1)    | This command was introduced. |

|                         |                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Usage Guidelines</b> | Use the <b>ip name-server</b> command to configure the name server for the device. Use the <b>vrf context</b> command to enter the VRF context mode to configure the domain names for a particular VRF. |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                 |                                                                             |
|-----------------|-----------------------------------------------------------------------------|
| <b>Examples</b> | This example shows how to configure the IP name server for the default VRF: |
|-----------------|-----------------------------------------------------------------------------|

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# exit
switch(config)# ip domain-name Mysite.com use-vrf management
switch(config)# ip name-server 192.0.2.1
```

This example shows how to configure the IP name server for the management VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# ip name-server 192.0.2.1
```

This example shows how to configure the IP name server for the default VRF to use the management VRF as a backup if the IP name server cannot be reached through the default VRF:

```
switch# config terminal
switch(config)# vrf context management
switch(config-vrf)# exit
switch(config)# ip domain-name Mysite.com use-vrf management
switch(config)# ip name-server 192.0.2.1 use-vrf management
```

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**Related Commands**

| Command                 | Description                                                  |
|-------------------------|--------------------------------------------------------------|
| <b>ip domain-list</b>   | Defines a list of domains.                                   |
| <b>ip domain lookup</b> | Enables DNS-based host name-to-address translation.          |
| <b>show hosts</b>       | Displays information about the IP domain name configuration. |
| <b>vrf context</b>      | Creates a virtual routing and forwarding (VRF) instance.     |

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## ip port access-group (session)

To apply an IPv4 access control list (ACL) to an interface as a port ACL, use the **ip port access-group** command. To remove an IPv4 ACL from an interface, use the **no** form of this command.

**ip port access-group** *access-list-name* {**in** | **out**}

**no ip port access-group** *access-list-name* {**in** | **out**}

|                           |                         |                                                                                              |
|---------------------------|-------------------------|----------------------------------------------------------------------------------------------|
| <b>Syntax Description</b> | <i>access-list-name</i> | Name of the IPv4 ACL. The name can be up to 64 alphanumeric, case-sensitive characters long. |
|                           | <b>in</b>               | Specifies that the ACL applies to inbound traffic.                                           |
|                           | <b>out</b>              | Specifies that the ACL applies to outbound traffic.                                          |

|                        |      |
|------------------------|------|
| <b>Command Default</b> | None |
|------------------------|------|

|                      |                                      |
|----------------------|--------------------------------------|
| <b>Command Modes</b> | Session interface configuration mode |
|----------------------|--------------------------------------|

| <b>Command History</b> | <b>Release</b> | <b>Modification</b>          |
|------------------------|----------------|------------------------------|
|                        | 4.0(0)N1(1)    | This command was introduced. |

**Examples** This example shows how to apply an IPv4 ACL named ip-acl-01 to the Ethernet interface 1/2 as a port ACL:

```
switch# configure session MySession1
switch(config-s)# interface ethernet 1/2
switch(config-s-if)# ip port access-group ip-acl-01 in
switch(config-s-if)#
```

This example shows how to remove an IPv4 ACL named ip-acl-01 from Ethernet interface 1/2:

```
switch(config-s)# interface ethernet 1/2
switch(config-s-if)# no ip port access-group ip-acl-01 in
switch(config-s-if)#
```

| <b>Related Commands</b> | <b>Command</b>                    | <b>Description</b>                    |
|-------------------------|-----------------------------------|---------------------------------------|
|                         | <b>show access-lists</b>          | Displays all ACLs.                    |
|                         | <b>show configuration session</b> | Displays the contents of the session. |