

## show dhcp server binding

<b>Syntax</b>	show dhcp server binding <detail> <interface <i>interface-name</i> > < <i>ip-address</i>   <i>mac-address</i> > <logical-system <i>logical-system-name</i> > <routing-instance <i>routing-instance-name</i> >
<b>Release Information</b>	Command introduced in JUNOS Release 9.0.
<b>Description</b>	Display the address bindings in the client table on the extended Dynamic Host Configuration Protocol (DHCP) local server.
<b>Options</b>	<p><b>detail</b>—(Optional) Display detailed information about all active client bindings.</p> <p><b>interface <i>interface-name</i></b>—(Optional) Display information about active client bindings on the specified interface.</p> <p><b><i>ip-address</i></b>—(Optional) IP address of the DHCP client.</p> <p><b><i>mac-address</i></b>—(Optional) MAC address of the DHCP client.</p> <p><b>logical-system <i>logical-system-name</i></b>—(Optional) Display information about active client bindings for DHCP clients on the specified logical system.</p> <p><b>routing-instance <i>routing-instance-name</i></b>—(Optional) Display information about active client bindings for DHCP clients on the specified routing instance.</p>
<b>Required Privilege Level</b>	view
<b>Related Topics</b>	clear dhcp server binding
<b>List of Sample Output</b>	show dhcp server binding on page 3 show dhcp server binding detail on page 3 show dhcp server binding ip-address on page 3 show dhcp server binding ip-address detail on page 3
<b>Output Fields</b>	Table 1 lists the output fields for the show dhcp server binding command. Output fields are listed in the approximate order in which they appear.

**Table 1: show dhcp server binding Output Fields**

Field Name	Field Description	Level of Output
<i>number</i> clients, ( <i>number</i> bound, <i>number</i> selecting, <i>number</i> renewing, <i>number</i> rebinding)	Summary counts of the total number of DHCP clients and the number of DHCP clients in each state.	detail none
IP address	IP address of the DHCP client.	All levels

**Table 1: show dhcp server binding Output Fields (continued)**

Field Name	Field Description	Level of Output
Hardware address	Hardware address of the DHCP client.	All levels
Request received on	Name of the interface on which the DHCP request was received and the IP address from which the request was relayed (if applicable). This field might also display the Integrated Routing and Bridging (IRB) unit to which the interface is assigned if IRB is configured for the interface.	detail
Type	Type of DHCP packet processing performed on the router: <ul style="list-style-type: none"> <li>■ <b>active</b>—Router actively processes and relays DHCP packets.</li> <li>■ <b>passive</b>—Router passively snoops DHCP packets passing through the router.</li> </ul>	All levels
Lease expires at	Date and time at which the client's IP address lease expires or, for a client with a state of <b>bound-grace</b> , the time at which the grace period for the client's IP address lease expires.	All levels
State	State of the address binding table on the extended DHCP local server: <ul style="list-style-type: none"> <li>■ <b>init</b>—Initial state.</li> <li>■ <b>reboot</b>—Client sends DHCP DISCOVER request.</li> <li>■ <b>select</b>—Client receives offers from DHCP servers.</li> <li>■ <b>request</b>—Client requests a DHCP server.</li> <li>■ <b>add</b>—Client is in process of being added.</li> <li>■ <b>delete</b>—Client is in process of being deleted.</li> <li>■ <b>bound</b>—Client has active IP address lease.</li> <li>■ <b>bound-grace</b>—Grace period for the client's IP address lease is active in the client table; this entry is included in the summary counts line in the <b>number bound</b> category.</li> <li>■ <b>renew</b>—Client sends request to renew IP address lease.</li> <li>■ <b>rebind</b>—Client broadcasts request to renew IP address lease.</li> </ul>	detail
Active binding information	Information about active IP address binding: <ul style="list-style-type: none"> <li>■ <b>IP address</b>—IP address of the DHCP client.</li> <li>■ <b>Hardware address</b>—Hardware address of the DHCP client.</li> <li>■ <b>Request received on</b>—(detail level only) Interface on which the client request was received.</li> <li>■ <b>relayed by</b>—(detail level only) IP address on which the client request was relayed.</li> </ul>	All levels (unless otherwise specified) when command includes <i>ip-address</i> or <i>mac-address</i> value
Lease information	Information about the client's IP address lease: <ul style="list-style-type: none"> <li>■ <b>Type</b>—Type of IP address lease; always DHCP.</li> <li>■ <b>Obtained at</b>—Date and time at which the client's IP address lease was obtained.</li> <li>■ <b>Expires at</b>—Date and time at which the client's IP address lease expires.</li> <li>■ <b>State</b>—(detail level only) State of the address binding table on the extended DHCP local server.</li> </ul>	All levels (unless otherwise specified) when command includes <i>ip-address</i> or <i>mac-address</i> value

**show dhcp server binding** user@host> **show dhcp server binding**

5 clients, (0 bound, 0 selecting, 0 renewing, 5 rebinding)

IP address	Hardware address	Type	Lease expires at
100.20.32.1	90:00:00:01:00:01	active	2007-01-17 11:38:47 PST
100.20.32.3	90:00:00:02:00:01	active	2007-01-17 11:38:41 PST
100.20.32.4	90:00:00:03:00:01	active	2007-01-17 11:38:01 PST
100.20.32.5	90:00:00:04:00:01	active	2007-01-17 11:38:07 PST
100.20.32.6	90:00:00:05:00:01	active	2007-01-17 11:38:47 PST

**show dhcp server binding detail** user@host> **show dhcp server binding detail**

5 clients, (0 bound, 0 selecting, 0 renewing, 5 rebinding)

IP address	Hardware address	Type	Lease expires	State
100.20.32.1	90:00:00:01:00:01	active	2007-01-17 11:38:47 PST	rebind
100.20.32.3	90:00:00:02:00:01	active	2007-01-17 11:38:41 PST	rebind
100.20.32.4	90:00:00:03:00:01	active	2007-01-17 11:38:01 PST	rebind
100.20.32.5	90:00:00:04:00:01	active	2007-01-17 11:38:07 PST	rebind
100.20.32.6	90:00:00:05:00:01	active	2007-01-17 11:38:47 PST	rebind
100.20.32.6	90:00:00:06:00:01	active	2007-01-19 16:38:47 PST	bound-grace

**show dhcp server binding ip-address** user@host> **show dhcp server binding 100.20.32.1**

Active binding information:

IP address	100.20.32.1
Hardware address	90:00:00:01:00:01

Lease information:

Type	DHCP
Obtained at	2007-01-17 11:28:47 PST
Expires at	2007-01-17 11:38:47 PST

**show dhcp server binding ip-address detail** user@host> **show dhcp server binding 100.20.32.1 detail**

Active binding information:

IP address	100.20.32.1
Hardware address	90:00:00:01:00:01
Request received on	fe-0/0/2.0, relayed by 100.20.32.2

Lease information:

Type	DHCP
Obtained at	2007-01-17 11:28:47 PST
Expires at	2007-01-17 11:38:47 PST
State	rebind