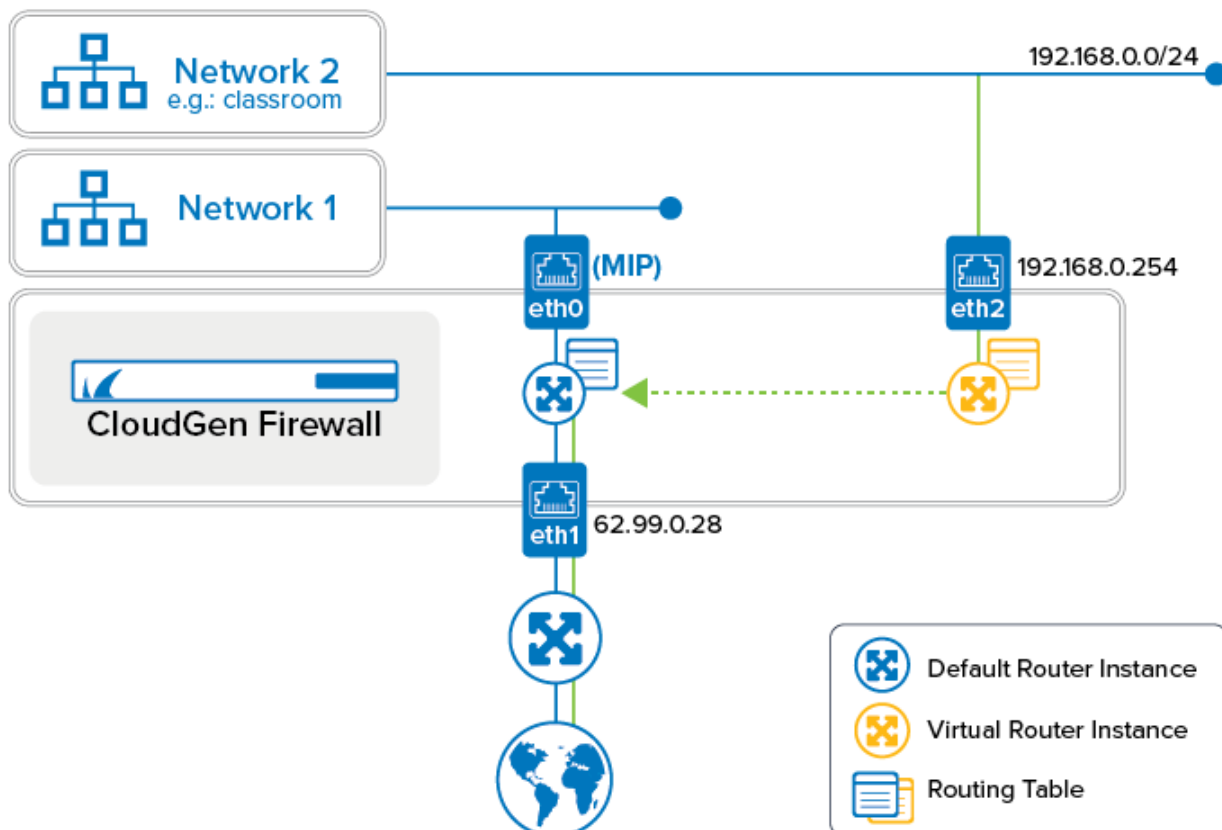


How to Redirect Traffic between Multiple Virtual Router Instances

<https://campus.barracuda.com/doc/96026030/>

Virtual routers handle traffic on network paths that are isolated from paths handled by other routers. In certain situations, however, you might need to redirect traffic from one virtual router to another. You can redirect traffic by modifying the access rule that is directly associated with the corresponding virtual router instance.

The following example demonstrates how to redirect requests originating from the private network 192.168.0.0/24 (eth2) handled by the virtual router VR01 to the interface that is connected to the Internet (e.g., eth1) and handled by the default router. To do so, the existing access rule that forwards traffic from eth2 to eth3 must be modified.

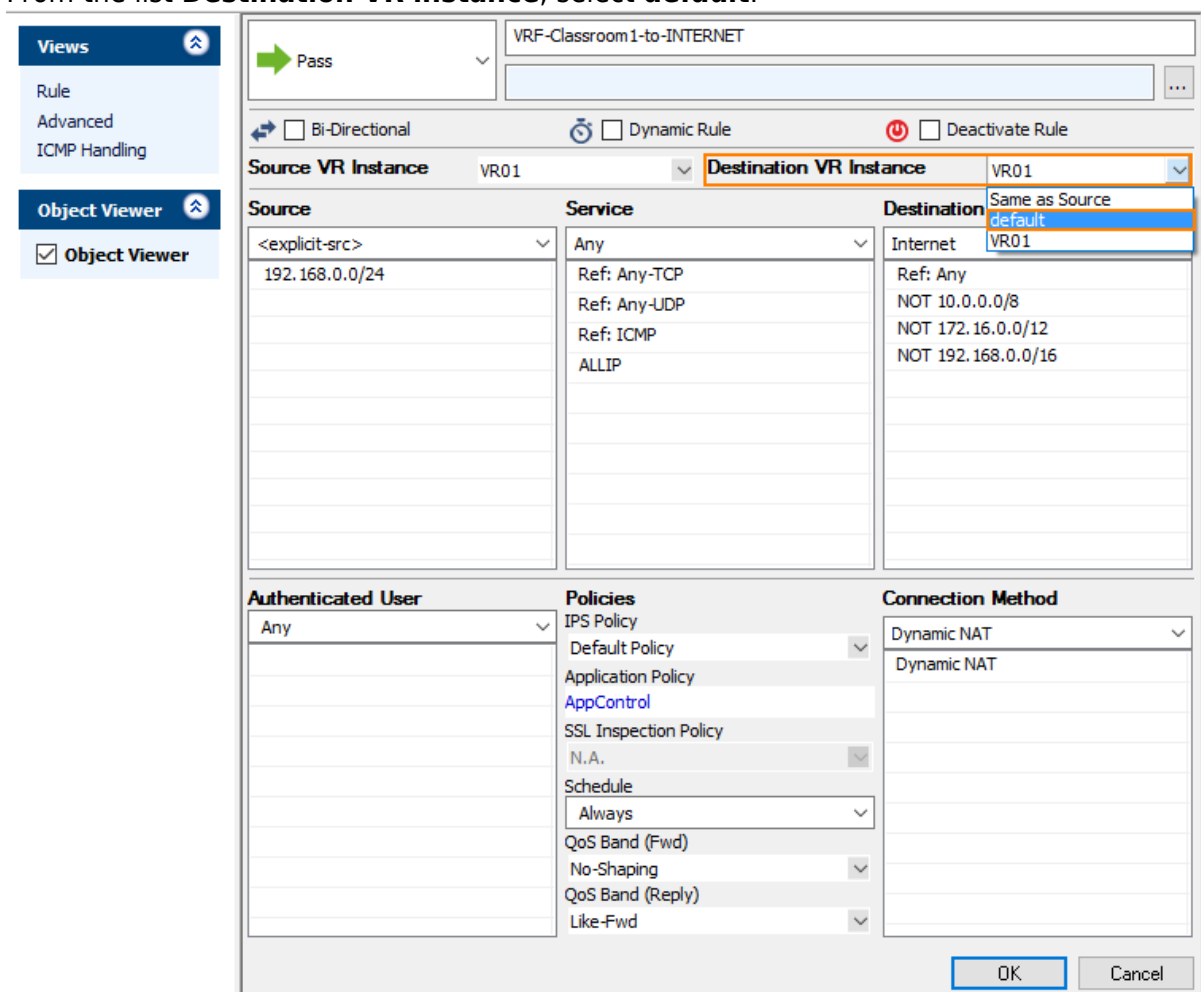


Before You Begin

You must have already configured an additional virtual router instance. For more information, see [How to Configure and Activate a Virtual Router Instance with Hardware, Virtual, VLAN, or Bundled Interfaces](#).

Step 1. Modify the Access Rule to Redirect Traffic

1. Go to **CONFIGURATION > Configuration Tree > Assigned Services > NGFW (Firewall) > Forwarding Rules**.
2. Click **Lock**.
3. Locate the access rule that handles the traffic flow from eth2 to eth3, e.g., VRF-Classroom1-to-INTERNET.
4. Double-click the access rule to open it for modification.
5. From the list **Destination VR instance**, select **default**.



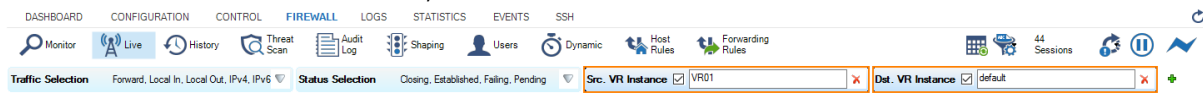
The screenshot shows the configuration window for the rule 'VRF-Classroom1-to-INTERNET'. The 'Destination VR Instance' dropdown is open, showing 'default' as the selected option. The 'Source' is set to '<explicit-src>' with a value of '192.168.0.0/24'. The 'Service' is set to 'Any'. The 'Destination' is set to 'Internet'. The 'Authenticated User' is set to 'Any'. The 'Policies' section includes 'IPS Policy' (Default Policy), 'Application Policy' (AppControl), 'SSL Inspection Policy' (N.A.), 'Schedule' (Always), 'QoS Band (Fwd)' (No-Shaping), 'QoS Band (Reply)' (Like-Fwd), and 'Connection Method' (Dynamic NAT).

6. Click **OK**.
7. Click **Send Changes**.
8. Click **Activate**.

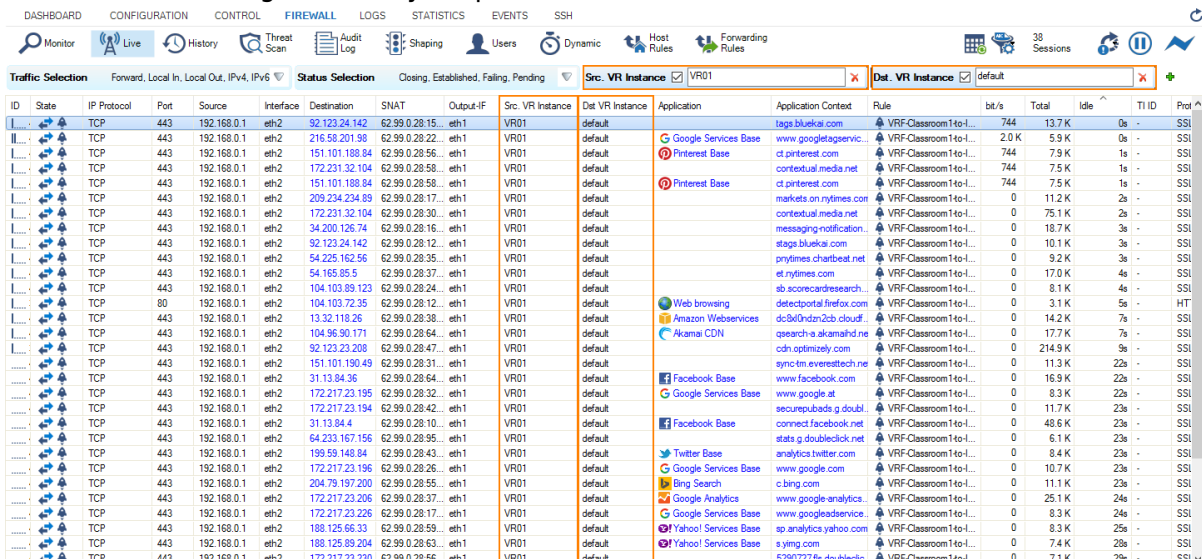
Step 2. Verify that Traffic from the Private Network is Redirected to the Default Router

Verify that the Internet is connected to the public interface that is handled by the default router, e.g., eth1. Also verify that your client PC is connected to the private network 192.168.0.0/24 and the default route points to 192.168.0.254 (eth2 on the firewall).

1. Go to **FIREWALL > Live**.
2. The **Live** view will display a mixture of traffic flowing both through the default router and the virtual router you configured earlier, e.g., VR01.
3. Click **+**.
4. From the list, select **Src. VR Instance**.
5. For the filter **Src. VR Instance**, enter **VR01**.
6. From the list, select **Dst. VR Instance**.
7. For the filter **Dst. VR Instance**, enter **default**.



8. Create traffic on your client by requesting a website, e.g., www.nytimes.com
9. Check traffic flowing between your private network (eth2, 192.168.0.1) and the Internet (eth1).



ID	State	IP Protocol	Port	Source	Interface	Destination	SNAT	Output-IF	Src. VR Instance	Dst. VR Instance	Application	Application Context	Rule	bit/s	Total	Idle	Ti ID	Prot
1	Established	TCP	443	192.168.0.1	eth2	92.123.24.142	62.99.0.28.15...	eth1	VR01	default	Google Services Base	tags.bluekai.com	VRF-Classroom1to1...	744	13.7 K	0s	-	SSI
2	Established	TCP	443	192.168.0.1	eth2	216.58.201.98	62.99.0.28.22...	eth1	VR01	default	Google Services Base	www.googleadservic...	VRF-Classroom1to1...	2.0 K	5.9 K	0s	-	SSI
3	Established	TCP	443	192.168.0.1	eth2	151.101.188.84	62.99.0.28.56...	eth1	VR01	default	Pinterest Base	ct.pinterest.com	VRF-Classroom1to1...	744	7.9 K	1s	-	SSI
4	Established	TCP	443	192.168.0.1	eth2	172.231.32.104	62.99.0.28.58...	eth1	VR01	default	contextual.media.net	contextual.media.net	VRF-Classroom1to1...	744	7.5 K	1s	-	SSI
5	Established	TCP	443	192.168.0.1	eth2	151.101.188.84	62.99.0.28.58...	eth1	VR01	default	Pinterest Base	ct.pinterest.com	VRF-Classroom1to1...	744	7.5 K	1s	-	SSI
6	Established	TCP	443	192.168.0.1	eth2	209.234.234.99	62.99.0.28.17...	eth1	VR01	default	markets.nytimes.com	markets.nytimes.com	VRF-Classroom1to1...	0	11.2 K	2s	-	SSI
7	Established	TCP	443	192.168.0.1	eth2	172.231.32.104	62.99.0.28.30...	eth1	VR01	default	contextual.media.net	contextual.media.net	VRF-Classroom1to1...	0	75.1 K	2s	-	SSI
8	Established	TCP	443	192.168.0.1	eth2	34.200.126.74	62.99.0.28.16...	eth1	VR01	default	messaging.notification	messaging.notification	VRF-Classroom1to1...	0	18.7 K	3s	-	SSI
9	Established	TCP	443	192.168.0.1	eth2	92.123.24.142	62.99.0.28.12...	eth1	VR01	default	stags.bluekai.com	stags.bluekai.com	VRF-Classroom1to1...	0	10.1 K	3s	-	SSI
10	Established	TCP	443	192.168.0.1	eth2	54.225.162.56	62.99.0.28.35...	eth1	VR01	default	nytimes.com	nytimes.com	VRF-Classroom1to1...	0	9.2 K	3s	-	SSI
11	Established	TCP	443	192.168.0.1	eth2	54.165.85.5	62.99.0.28.37...	eth1	VR01	default	et.nytimes.com	et.nytimes.com	VRF-Classroom1to1...	0	17.0 K	4s	-	SSI
12	Established	TCP	443	192.168.0.1	eth2	104.103.89.123	62.99.0.28.24...	eth1	VR01	default	sb.scorecardresearch...	sb.scorecardresearch...	VRF-Classroom1to1...	0	8.1 K	4s	-	SSI
13	Established	TCP	80	192.168.0.1	eth2	104.103.72.35	62.99.0.28.12...	eth1	VR01	default	detectportal.firefox.com	detectportal.firefox.com	VRF-Classroom1to1...	0	3.1 K	5s	-	HT
14	Established	TCP	443	192.168.0.1	eth2	13.32.118.26	62.99.0.28.38...	eth1	VR01	default	Amazon Webservices	dc3x0ndzn2cb.cloud...	VRF-Classroom1to1...	0	14.2 K	7s	-	SSI
15	Established	TCP	443	192.168.0.1	eth2	104.96.90.171	62.99.0.28.64...	eth1	VR01	default	Akamai CDN	qsearch-a.akamaihd.net	VRF-Classroom1to1...	0	17.7 K	7s	-	SSI
16	Established	TCP	443	192.168.0.1	eth2	92.123.23.208	62.99.0.28.47...	eth1	VR01	default	cdn.optimizely.com	cdn.optimizely.com	VRF-Classroom1to1...	0	214.9 K	9s	-	SSI
17	Established	TCP	443	192.168.0.1	eth2	151.101.190.49	62.99.0.28.31...	eth1	VR01	default	sync-tm.everesttech.net	sync-tm.everesttech.net	VRF-Classroom1to1...	0	11.3 K	22s	-	SSI
18	Established	TCP	443	192.168.0.1	eth2	31.13.84.36	62.99.0.28.64...	eth1	VR01	default	Facebook Base	www.facebook.com	VRF-Classroom1to1...	0	16.9 K	22s	-	SSI
19	Established	TCP	443	192.168.0.1	eth2	172.217.23.195	62.99.0.28.32...	eth1	VR01	default	Google Services Base	www.google.at	VRF-Classroom1to1...	0	8.3 K	22s	-	SSI
20	Established	TCP	443	192.168.0.1	eth2	172.217.23.194	62.99.0.28.42...	eth1	VR01	default	securepubads.g.double...	securepubads.g.double...	VRF-Classroom1to1...	0	11.7 K	23s	-	SSI
21	Established	TCP	443	192.168.0.1	eth2	31.13.94.4	62.99.0.28.10...	eth1	VR01	default	Facebook Base	connect.facebook.net	VRF-Classroom1to1...	0	48.6 K	23s	-	SSI
22	Established	TCP	443	192.168.0.1	eth2	64.233.167.155	62.99.0.28.95...	eth1	VR01	default	stats.g.doubleclick.net	stats.g.doubleclick.net	VRF-Classroom1to1...	0	6.1 K	23s	-	SSI
23	Established	TCP	443	192.168.0.1	eth2	199.59.148.84	62.99.0.28.43...	eth1	VR01	default	Twitter Base	analytics.twitter.com	VRF-Classroom1to1...	0	8.4 K	23s	-	SSI
24	Established	TCP	443	192.168.0.1	eth2	172.217.23.196	62.99.0.28.26...	eth1	VR01	default	Google Services Base	www.google.com	VRF-Classroom1to1...	0	10.7 K	23s	-	SSI
25	Established	TCP	443	192.168.0.1	eth2	204.79.197.200	62.99.0.28.55...	eth1	VR01	default	Bing Search	c.bing.com	VRF-Classroom1to1...	0	11.1 K	23s	-	SSI
26	Established	TCP	443	192.168.0.1	eth2	172.217.23.206	62.99.0.28.37...	eth1	VR01	default	Google Analytics	www.google-analytics...	VRF-Classroom1to1...	0	25.1 K	24s	-	SSI
27	Established	TCP	443	192.168.0.1	eth2	172.217.23.226	62.99.0.28.17...	eth1	VR01	default	Google Services Base	www.googleadservice...	VRF-Classroom1to1...	0	8.3 K	24s	-	SSI
28	Established	TCP	443	192.168.0.1	eth2	188.125.66.33	62.99.0.28.59...	eth1	VR01	default	Yahoo! Services Base	sp.analytics.yahoo.com	VRF-Classroom1to1...	0	8.3 K	25s	-	SSI
29	Established	TCP	443	192.168.0.1	eth2	188.125.89.204	62.99.0.28.63...	eth1	VR01	default	Yahoo! Services Base	s.yimg.com	VRF-Classroom1to1...	0	7.4 K	28s	-	SSI
30	Established	TCP	443	192.168.0.1	eth2	172.217.23.230	62.99.0.28.56...	eth1	VR01	default	52907777 file.doublecl...	52907777 file.doublecl...	VRF-Classroom1to1...	0	7.1 K	29s	-	SSI

You firewall is now redirecting traffic from virtual router VR01 to the default router.

Figures

1. vr_redir.png
2. vrf_modify_access_rule_to_redirect_traffic.png
3. vrf_create_filter_for_redirected_traffic.png
4. vrf_traffic_check_for_redirection.png

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