Barracuda Load Balancer Configuration for Inception

For high volume Inception systems, Ross Video offers a Barracuda Load Balancer option to share the load between two or more Inception Server computers.

Ross Video uses the Two-Armed Deployment method to configure the Barracuda Load Balancer in an Inception system.

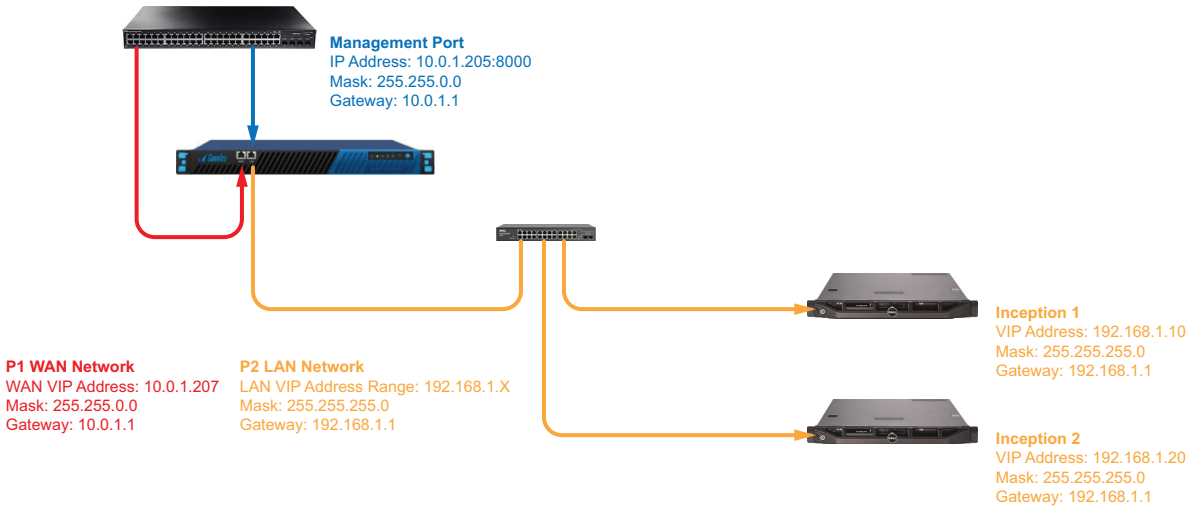


Figure 1 Barracuda ADC 340 Test Case Scenario

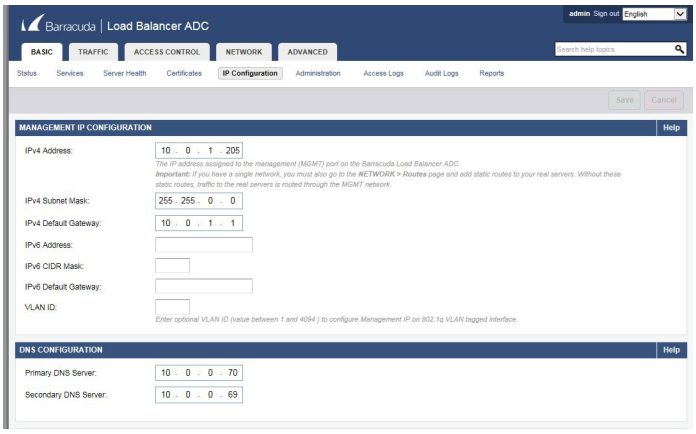
Barracuda Load Balancer Login

Before you can configure the Barracuda Load Balancer in your Inception system, you must first log in to the load balancer.

To log in to the Barracuda Load Balancer

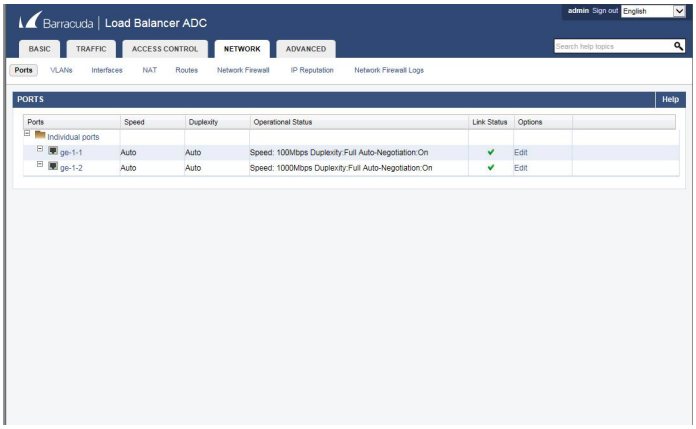
1. Use one of the following methods to connect the Barracuda Load Balancer in your Inception system:
   - **Direct Connection** — login using the keyboard and monitor connected to the Barracuda Load Balancer.
   - **Web Browser** — use a web browser to connect to Barracuda Load Balancer ADC IP address. The default ADC IP address is http://192.168.200.200:8000.
2. 2At the login prompt, enter the following credentials to log in to the Barracuda Load Balancer:
   - **User Name**: `admin`
   - **Password**: `admin`

The Barracuda Load Balancer ADC page opens.



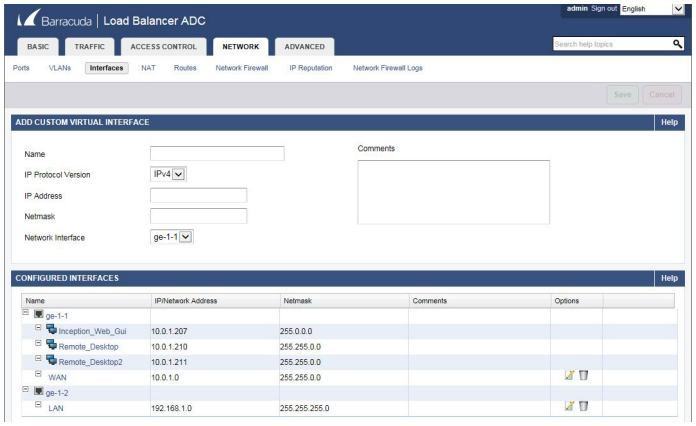
Ports Setup

The **Ports** section of the **Network** tab lists the configured ports on the Barracuda Load Balancer. The following ports are set by default:



Interfaces Setup

The **Interfaces** section of the **Network** tab lists custom VIP addresses. In our test case scenario, we created a custom VIP address for the Inception web application and independent addresses for Remote Desktop access to individual servers. All the Inception servers fall within the LAN address range.



Adding Application Services

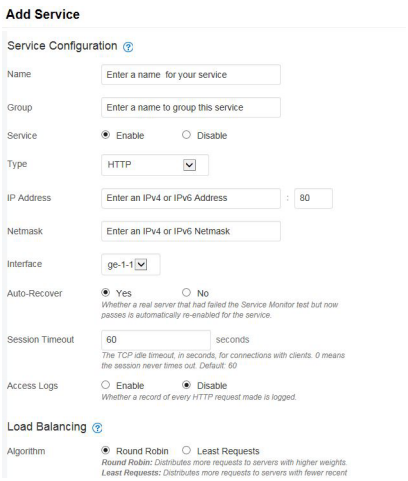
Services act as an interface to the back-end real-servers that run the applications. Services for the Barracuda Load Balancer are added from the **Services** tab within the **Basic** tab. Complete the following procedures to add a service for Inception to your Barracuda Load Balancer:

- Add and configure a new service for Inception
- Configure load balancing for the Inception service
- Configure server monitoring
- Set notifications

To add and configure a new service for Inception

1. 1Click **Add Service**.

   The **Add Service** dialog box opens.



2. 3.In the **Name** box, enter a name for the service that describes your application.
3. In the **Group** box, enter a name to group this service.

   Set **Group** to **default** when no server groups are configured.
4. For the **Service** setting, select the **Enabled** option.
5. Use the **Type** list to select Layer **4 TCP**.
6. In the **IP Address** box, enter the WAN IP address and port number for the service.

   The **Port** number should be **80** in most cases.
7. In the **Netmask** box, enter the netmask of the service IP address.
8. Use the **Interface** list to select **ge-1-1**.
9. For the **Auto-Recover** setting, select the **Yes** option.
10. In the **Load Balancing** section, select the **Round Robin** option for the **Algorithm** setting.

To configure load balancing for the Inception service

1. In the **Load Balancing** section of the **Add Service** dialog box, select one of the following options for the **Algorithm** settings:
   - **Round Robin** — distributes more requests to servers with higher weights.
   - **Least Requests** — distributes more requests to servers with fewer recent requests relative to their weights.
2. Use the **Persistence Type** list to select **Source IP**.
3. In the **Persistence Netmask** box, verify that the netmask is 255.255.255.255 unless you require a certain subnet to only connect to a certain server.
4. In the **Persistence Time** box, enter `86400` as the number of seconds. A client is directed to the same Real Server unless it is inactive for more than this number of seconds.
5. For the **Last Resort Acton** setting, select the **Default failure response** option.

To configure server monitoring

1. In the **Server Monitor** section of the **Add Service** dialog box, use the **Testing Method** list to select **TCP Port Check**.
2. In the **Test Delay** box, enter the number of seconds between test start times.

   The shorter the **Test Delay**, the quicker the load balancer triggers a balance when a real-server falters.

To set notifications

1. Go to the **Notifications** section of the **Add Service** dialog box.
2. For the **Notifications** setting, select the **On** option to send a notification whenever a server goes up or down.
3. In the **Minimum Servers** box, enter the minimum number of servers required for the service. When the entered number is not met, a notification is sent.

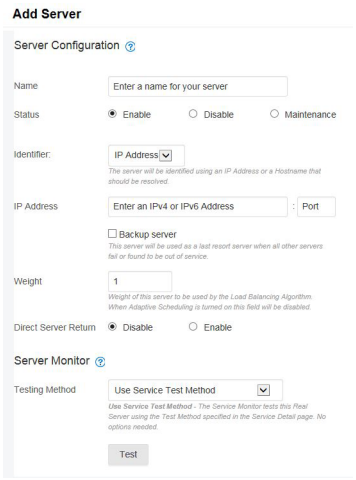
Real Server Configuration

Real Servers are the locations where real applications are run. Real Servers for the Barracuda Load Balancer are added from the Services tab within the Basic tab.

To add and configure a server

1. In the **Configured Servers** section, click **Add Server**.

   The **Add Server** dialog box opens.



2. In the **Name** box, enter a meaningful name for the real server.
3. For the **Status** setting, select the **Enabled** option.
4. Use the **Identifier** list to select **IP Address**.
5. In the **IP Address** box, enter the LAN IP address and port number for the server.
6. If the server is the only redundant server in your system, select the **Backup Appliance** check box.
7. In the **Weight** box, enter a numeric value to set the server weight for the load balancing algorithm.

   Set the **Weight** value equally on both servers in your system if you want the servers to have equally balanced loads.
8. For the **Direct Server Return** setting, select the **Disable** option
9. Repeat this procedure to add additional servers.

Contacting Technical Support

Technical Support is staffed by a team of experienced specialists ready to assist you with any question or technical issue.

Ross Video has technical support specialists strategically located around the globe to ensure a prompt response to technical inquiries. Our primary technical support center is located in Ottawa, Ontario, Canada. In addition, we have offices in The United Kingdom (London), Australia (Sydney), and Singapore with satellite locations in New York City, The Netherlands, and China. As we expand our presence globally, we are constantly evaluating other key locations to have a local technical support specialist in order to better service our customers.

North America

Our North America center located in Ottawa, Ontario, Canada and is open Monday to Friday 8:30 a.m. to 6:00 p.m. EST, with 24/7/365 on-call service after hours.

Our telephone number is: +1-613-686-1557

Toll free within North America: +1 833-859-0499

EMEA

Our EMEA center is located in Buckinghamshire, England, United Kingdom and is open Monday to Friday 8:30 a.m. to 5:00 p.m. GMT. After hours support is provided by our North America location.

International toll free: +800 3540 3545

Australia

Our Sydney, Australia office is located in Alexandria, NSW.

Our local support telephone number is: 1300 007 677

If the local support specialist is not available, your call will be transferred automatically to our North America center.

Online

E-mail: techsupport@rossvideo.com

Website: use the link https://support.rossvideo.com/ to open a support request.

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