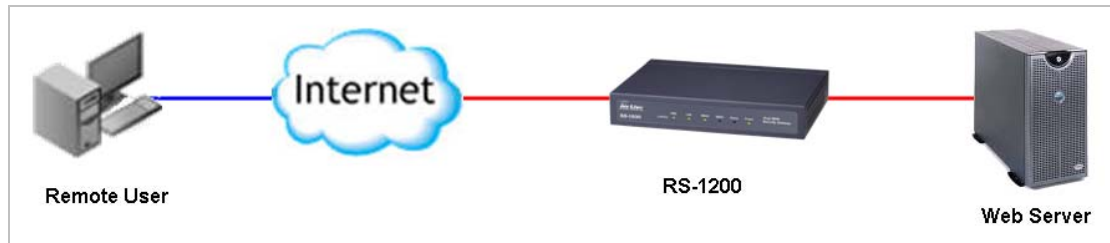


How to configure PAT (Port Address Translation) function at RS Gateway

Environment:



1. The default port of Web Server is set to TCP 8080
2. Remote user accesses website by using TCP 80
3. RS-1200 works to translate the packets between TCP 8080 and TCP 80

Preparation:

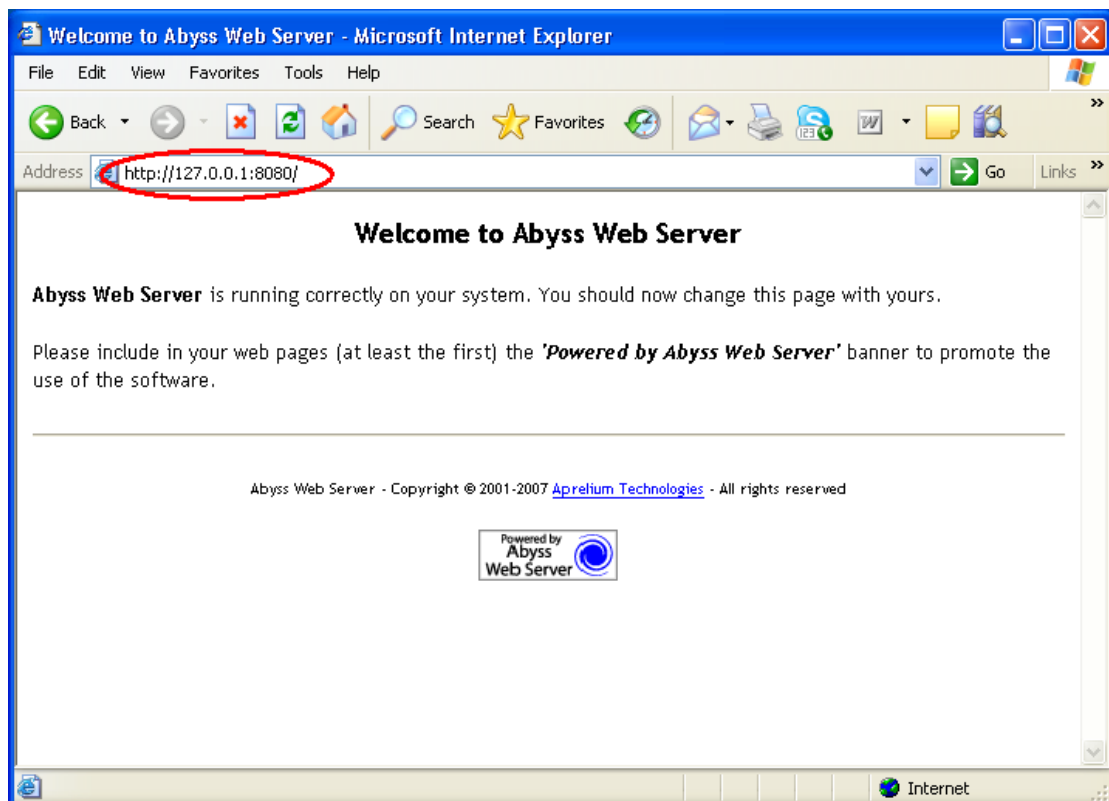
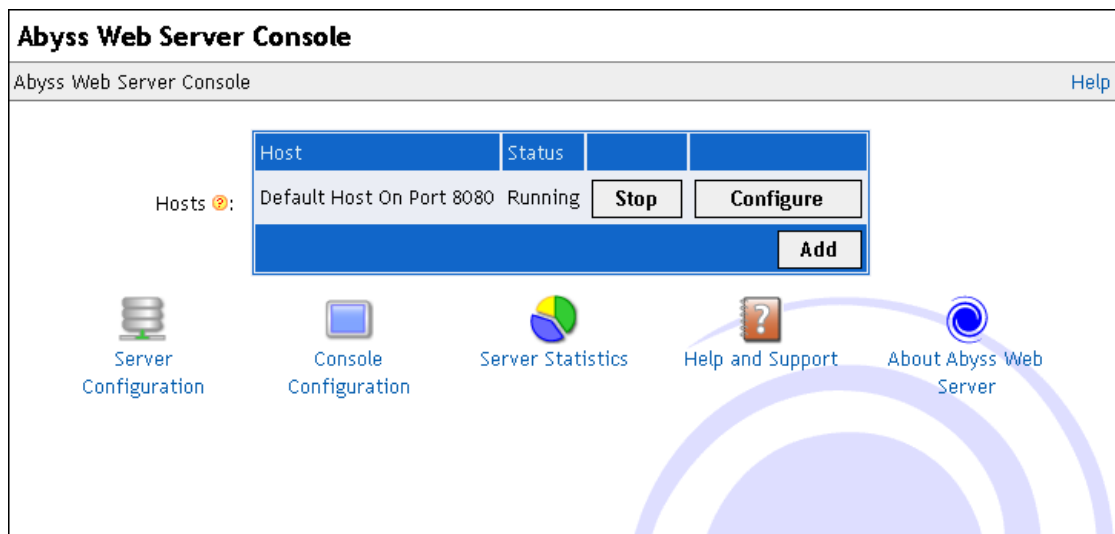
1. Assign DDNS domain name to RS-1200, so the remote user can type domain name instead of typing IP address in this example. The DDNS domain name is "airlive15.dyndns.org".

Add New Dynamic DNS	
Service Provider :	DynDNS (www.dyndns.com) [U.S.A.] Sign up
WAN IP:	61.229.42.105 <input checked="" type="checkbox"/> Automatically WAN1
User Name :	jackyko (Max. 59 characters)
Password : (Max. 44 characters)
Domain Name:	airlive15 dyndns.org (Max. 34 characters)

2. By default, the RS-1200 remote management port is TCP 80. If user would like to forward TCP 80 port to internal server, and also want to manage RS-1200 from remote side, he has to change remote port number of RS-1200 in **System → Configure → Setting**. For example, the remote management port number change to TCP 1234.

Web Management (WAN Interface)	
HTTP Port	1234 (Range: 1 - 65535)
MTU Setting	
MTU	1500 Bytes (Range: 40 - 1500)

3. Configure Web Server and change its default port number as TCP 8080.



4. Now we can start to configure RS-1200 PAT function.

RS-1200 Configuration steps:

1. **Policy Object → Service → Custom:** Add a new service TCP 8080 for PAT function. While you configure **Custom** setting, please do not change **Client Port** setting, just leave it as default value.

Add User Defined Service					
Service NAME :			PAT_Address (Max. 16 characters)		
#	Protocol (Range: 1 - 255)		Client Port (Range: 0 - 65535)		Server Port (Range: 0 - 65535)
1	<input checked="" type="radio"/> TCP <input type="radio"/> UDP <input type="radio"/> Other	6	0	65535	8080 8080
2	<input type="radio"/> TCP <input type="radio"/> UDP <input checked="" type="radio"/> Other	0	0	0	0 0
3	<input type="radio"/> TCP <input type="radio"/> UDP <input checked="" type="radio"/> Other	0	0	0	0 0

2. **Policy Object → Virtual Server → Server1:** Click “Click here to configure” to configure **Virtual Server Real IP** setting. Then press “New Entry” to define virtual server rule.

Virtual Server Real IP click here to configure			
Service	WAN Port	Server Virtual IP	Configure



Add New Virtual Server IP		
Virtual Server Real IP	61.229.43.27	WAN1 Assist



Virtual Server Real IP 61.229.43.27			
Service	WAN Port	Server Virtual IP	Configure
New Entry			

3. Choose the custom service we just created at **Service** item, and change the **External Service Port** value to 80, then to define the server IP address. Click **OK** to save the setting.

Virtual Server Configuration	
Virtual Server Real IP	61.229.43.27
Service	(Custom Service)PAT_Address
External Service Port	80 (Range: 0 - 65535)
Load Balance Server	Server Virtual IP
1	192.168.1.2
2	

4. **Policy → Incoming:** Click “**New Entry**” to create a new Incoming Policy, RS-1200 system will import Virtual Server setting to Incoming Policy automatically. You can enable Traffic Log, QoS, or else function for this rule, or just leave the rule as default and click OK to save the setting.

Source	Destination	Service	Action	Option	Configure	Move
New Entry						



Add New Policy	
Source Address	Outside_Any ▾
Destination Address	Virtual Server 1(61.229.43.27) ▾
Service	PAT_Address(80) ▾
Schedule	None ▾
Tunnel	None ▾
Action	PERMIT ▾
Traffic Log	<input type="checkbox"/> Enable
Statistics	<input type="checkbox"/> Enable
QoS	None ▾
MAX. Bandwidth Per Source IP	Downstream <input type="text" value="0"/> Kbps Upstream <input type="text" value="0"/> Kbps (0: means unlimited)
MAX. Concurrent Sessions Per IP	<input type="text" value="0"/> (Range: 1 - 99999, 0: means unlimited)
MAX. Concurrent Sessions	<input type="text" value="0"/> (Range: 1 - 99999, 0: means unlimited)
NAT	<input type="checkbox"/> Enable

5. Remote user connects to web server by using TCP 80.

