Содержание

Process of Integrating SSG into the Operator's Network

Step 1. Server Preparation

Client Responsibilities:

1. Prepare the server according to the requirements:
   - SSG requirements
   - GUI requirements
   - QoE requirements

   GUI and QoE can be combined on the same server.
2. Provide servers with VEOS installed. Pay attention to the preliminary VEOS configuration.
3. Provide SSH access on port 22. The DPI must have internet connectivity. Verify the connection using the following commands:

   ```
   ping vasexperts.ru
   ping vasexperts.com
   ```

   There are two options for providing access:

   1. Send the SSH username and password.
   2. Use the provided script to add servers to Teleport.

VAS Experts Responsibilities:

1. Connect to the servers via SSH.
2. Add servers to Teleport.

Step 2. Component Installation

The installation depends on the functionality being used.

VAS Experts Responsibilities:

1. SSG:
   1. Install SSG on the server.
2. GUI (if required):
   1. Install GUI on a separate server. If necessary (e.g., in test environments), the GUI can be installed on the same server as SSG.
3. QoE (for DPI functionality):
   1. Prepare a separate server for QoE.
   2. Install QoE.

Step 3. Component Configuration

The configuration depends on the functionality being used.

Client Responsibilities:

For NAT:

1. Complete the questionnaire provided by the VAS Experts manager.
2. Provide a pool of public IP addresses.
3. Specify which private networks need to be connected to the CG-NAT service.
4. Provide a receiver for exporting NAT events (if using a third-party solution).

For BRAS:

1. Configure the RADIUS server using the provided attribute dictionary.
2. Provide information about the type of BRAS (L2 or L3) and the authentication method.
3. Configure billing logic.

VAS Experts Responsibilities:

For DPI:

1. Configure the interaction between modules (DPI, GUI, QoE).

For NAT:

1. Assign public IP addresses in SSG.
2. Configure the export of NAT events. Two options are available:
    1. To the client receiver.
    2. Use the VAS Expert solution — QoE with NAT Flow functionality.

For BRAS:

1. Configure SSG based on the type of BRAS (L2 or L3).
2. Collaborate with the client on necessary attributes in the RADIUS server response.
3. Debug and test business cases (e.g., blocking, Captive Portal, financial blocking).

Step 4. Integration and Testing

Client Responsibilities:

1. Prepare a portion of traffic or a list of test subscribers for verification.

VAS Experts Responsibilities:

1. Integrate SSG with a portion of real traffic or subscribers.
2. Test the system's functionality.
3. Address any identified issues.

Step 5. Transition to Operation

Client Responsibilities:

1. Confirm that the system operates according to the requirements.

VAS Experts Responsibilities:

1. Finalize the configuration and transfer the system into operation.
2. Provide support during the implementation phase.