Manage IP whitelisting for ultra low latency streams with the Wowza Streaming Cloud REST API

Learn how to use the Wowza Streaming Cloud™ REST API to limit sources that can connect to an ultra low latency stream. Limiting source connections through IP whitelisting ensures that only trusted sources can connect to an ultra low latency target's ingest origin server, preventing unauthorized sources from connecting to and altering your stream. IP whitelisting is limited to ultra low latency push connections, where a source pushes the stream to Wowza Streaming Cloud.

Create an ultra low latency target

To get started with IP whitelisting, use the Wowza Streaming Cloud REST API to create an ultra low latency stream target with a `source_delivery_method` of **push** and an array of trusted IP addresses for `ingest_ip_whitelist`.

See the Wowza Streaming Cloud REST API reference documentation for detailed information about available parameters.

Example request and response

Create an ultra low latency stream target:

```bash
curl -X POST
-H "Content-Type: application/json"
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
-d '{
"stream_target_ull": {
"name": "My Ultra Low Latency Stream Target with IP whitelisting",
"source_delivery_method": "push",
"enable_hls": true,
"ingest_ip_whitelist": ["192.112.222.*", "120.178.110.193", "143.68.176.47"]
}
}'

${WSC_HOST}/api/${WSC_VERSION}/stream_targets/ull
```

The request creates an ultra low latency stream target with an `id` parameter, ingest connection details, and playback details, including a hash of playback URLs. You will need
Configure the source

Set up your video source to send an ultra low latency stream to Wowza Streaming Cloud. Ensure that you are using an IP address that is included in the whitelisted IP addresses for your ultra low latency stream target.

See the Connect a Source ultra low latency example articles for more information.

Test the connection

1. Start the video source.

Configure secure playback

To increase security on the playback side, see Manage secure playback for ultra low latency streams with the Wowza Streaming Cloud REST API.