Connection Types

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Connection Types

- ### Public

  Allows synchronization of data with an instance, which you can access from your side and is available in a public network.

- ### Private

  Allows synchronization of data with an instance, which is behind the firewall and you cannot access it from the public network.

- ### Local connection

  Allows synchronization of data between projects within the same instance.

> **Important**: Local connection is not supported on Azure DevOps and GitHub.

Public/ Private Connection Synchronization

With Exalate it is possible to set up synchronization between a public and a private instance without opening firewall ports.

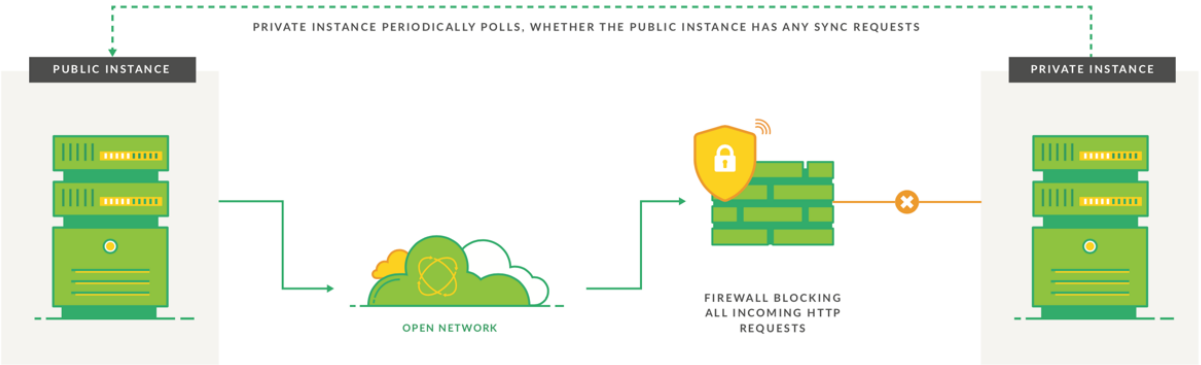
The main difference between private and public connection types is whether the HTTP/HTTPS requests are initiated from one side or from both sides.

In the ***private-public connection,*** all communication over TCP/IP is initiated from the private side. In this case, the public side never sends HTTP requests. It only answers requests sent from the instance, located behind the firewall. Because of this, it might take a couple of extra seconds before synchronization continues.

The private instance (one behind the firewall) sends a request for any changes either every 20 seconds or whenever there are changes to sync towards the public instance. This explains the delay in sync in case there are no changes in the private to push to the public. This parameter can be modified, but 20 seconds seems to be an acceptable delay.

> **Note**: For better performance, we recommend configuring one connection. You can add multiple conditions to the Sync Rules to cover all the affected projects.

In the ***public-public connection,*** requests are initiated from both sides.



Exalate has a set of messages (supported by private-public communication).

The table below details the messages that are sent between the nodes.

Message	**When Performed**	**How Public Instance sends it**	**How Private Instance sends it**
node info	instance is saved / connection is tested	private instance requests public's node info, the public instance responds to it	is sent via the email when you set up private/public sync
sync request	something was changed on an issue, which is under sync	private instance periodically polls, whether the public instance has any sync requests	private instance sends sync requests directly
sync response	synchronization has been processed by the receiving side	private instance periodically polls, whether the public instance has any sync responses	private instance sends sync responses directly
sync error response	synchronization failed on the receiving side due to the sending side's mistake	private instance periodically polls, whether the public instance has any sync error responses	private instance sends sync error responses directly
blob request	an attachment was added to an issue, which is under sync	private instance periodically polls, whether the public instance has any attachments to be sent	private instance sends blob requests directly

Message	When Performed	How Public Instance sends it	How Private Instance sends it
blob response	an attachment has been received by receiving side	private instance periodically polls, whether the public instance received an attachment being synced	private instance sends blob responses directly
blob error response	synchronization of an attachment failed on receiving side due to sending side's mistake	private instance periodically polls, whether the public instance had any problems with receiving an attachment	private instance sends blob error responses directly

Note: To switch from an existing connection from public/public to public/private (or reverse) you need:

- An update of the database on both sides
- All synchronization transactions are fully handled (queues are empty)

Note: If you need help please reach out to our support team.

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