

# BSI Remote Internal Testing Solution

The BSI Remote Internal Testing Solution is a global solution which allows for testing on internal and cloud-based networks from a remote perspective. It has been developed and fine-tuned over a long period of time to provide a safe, secure and reliable connection into networks and allows for BSI to remotely perform activities related to internal penetration testing whilst not needing to be physically present on-site.



The BSI Jump Server consists of two main components, the client and the server.

## Server

The server component is a dedicated server for each individual client providing full segregation between client networks. The server instances are configured to accept a reverse SSH tunnel of the client and uses client specific keys to authenticate the connection.

BSI consultants in turn have SSH access to each individual jump server, from where the consultant can then SSH into the client instance within the target network via the SSH tunnel.

## Client

The client is the component which is installed within the target client environment and “calls-home” to the server to create a secure tunnel.

In a typical deployment, the client component would be setup as a “Virtual Machine” on a suitable hypervisor however, BSI also have options for AWS, Azure, Docker and Bare Metal configurations (server, workstation etc).

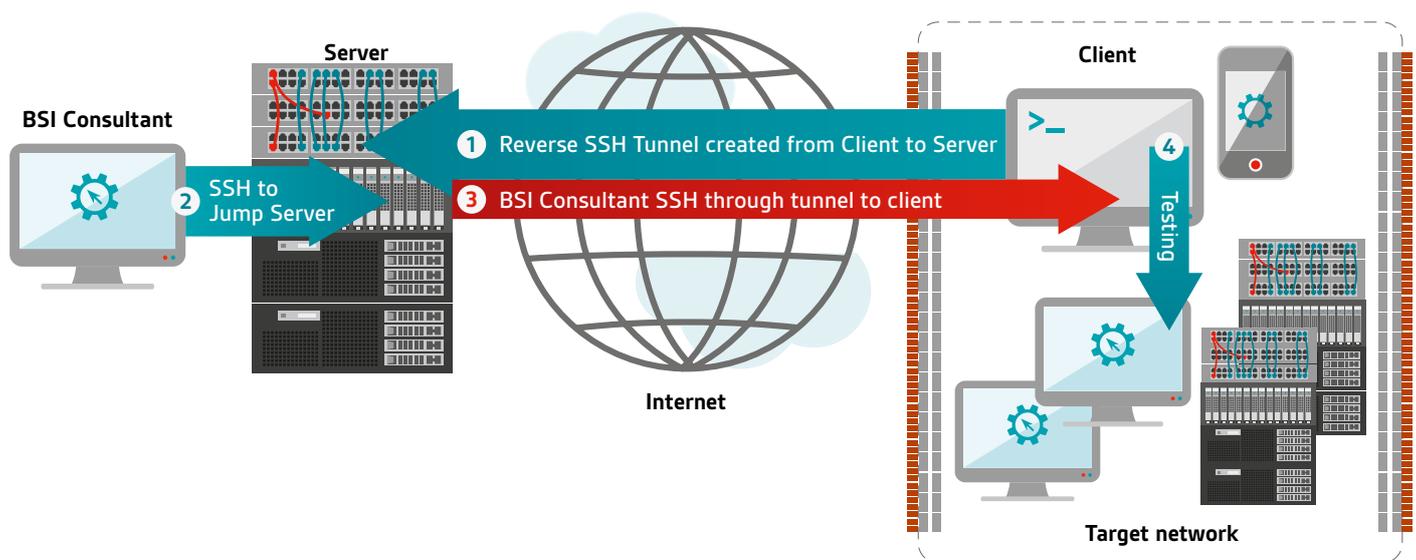
The client is simple to provision, with most of the setup done via a BSI provided setup script.

Once provisioned, the client creates a reverse tunnel to a dedicated server instance. The client can be placed in any network location, so long as access to the target environment is configured (either by placing directly into the environment or setting up routing for the client to reach the target segments).

Once the client has been setup, the testing can be performed as it would be with an in-person presence plugging into the same network. Once testing is complete both instances can be decommissioned.

The client requirements are as follows:

- 40GB hard drive
- 4GB RAM
- At a minimum, SSH (22/TCP), HTTP (80/TCP), and HTTPS (443/TCP) must be allowed outbound to the internet



Find out more



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