Default open ports

The following ports are open by default on the IBM StoredIQ.

SSH port 22

By default, port 22 is open on all IBM StoredIQ hosts. The port is used for Secure Shell (SSH) communication and allows remote administration access to the VM. In general, traffic is encrypted using password authentication. To add a layer of security, you can establish key-based authentication for passwordless SSH logins to any of the IBM StoredIQ nodes in your environment as described in Configuring SSH key-based authentication" on page 45."

Default open ports on the AppStack

Port number	Protocol
22	tcp
80	tcp
443	tcp

Table 1: Default open ports on the IBM StoredIQ data server

Port number	Protocol	Service
80	tcp	PROD-web
443	tcp	PROD-https (UI and WebServices APIs)
11103	tcp	PROD-transport (IBM StoredIQ transport services; communication between the gateway and the data server)
11104		

Enable or disable ports or services on the IBM StoredIQ data server

To manage ports, you can use the `/usr/local/storediq/bin/util/port_handler.pyc script` with the appropriate parameter:

```
python /usr/local/storediq/bin/util/port_handler.pyc -parameter
```

-s	To list the current rules in iptables
-l	To list the supported services
-d *port_number|'port_range'*	To delete a port or a range of port numbers from iptables, for example:

```
python /usr/local/storediq/bin/util/port_handler.pyc -d '21200:21299'
```

-e 'service_name

To enable a specific service, for example, to enable HTTPS services:

```
python /usr/local/storediq/bin/util/port_handler.pyc -e 'PROD-https'
```

-d 'service_name

To disable a specific service, for example, to disable HTTPS services:

```
python /usr/local/storediq/bin/util/port_handler.pyc -d 'PROD-https'
```

Default open ports on the nodes in the Elasticsearch cluster

Port number	Protocol	Service
21	tcp	ftp
22	tcp	sshd
80	tcp	
tcp	tcp	
8888	tcp	SimpleHTTPServer (used for copying the `siq-elasticsearch.yml` configuration file from the Elasticsearch node to the dataserver)
9200	tcp6	docker-proxy (listening for RESTrequests) You can restrict access to this port by either enabling SearchGuard or by setting up a firewall. For more information, see "Securing Elasticsearch cluster communication with SearchGuard" on page 51 or "Restricting access to port 9200 on Elasticsearch nodes" on page 52.
9300	tcp6	docker-proxy (internode communication)

Table 2: Default open ports on the IBM StoredIQ gateway

Port number	Protocol	Service
22	tcp	PROD-ssh
80	tcp	PROD-web
443	tcp	PROD-https (UI and WebServices APIs)
5432	tcp	PROD-postgres

Port number	Protocol	Service
5434	tcp	PROD-transport (IBM StoredIQ transport services; communication between the gateway and the data server)
8765		
7766		
11102		
11103		
11104		

Supported chain and rules on the IBM StoredIQ gateway

In iptables, the following firewall and chain rules are defined:

```
'PROD-transport':['5434','8765','7766','11102','11103','11104'],
                 'PROD-https':['443'],
                 'PROD-ssh':['22'],
                 'PROD-web':['80'],
                 'PROD-postgres':[’5432’]
```

```
'desktop' service:
                 'PROD-broker':['21000'],
                 'PROD-collectionsvc':['21300:21399'],
                 'PROD-desktopupgrade':['21004'],
                 'PROD-objlistmgr':['21100:21199'],
                 'PROD-objlistsvc':['21200:21299'],
                 'PROD-registration':['21001'],
                 'PROD-session':['21002'],
                 'PROD-task':['21003'],
```

Open ports for desktop client access to the data server

To open ports for desktop client access to the data server on OVA deployed systems, follow these steps:

1. Log in to the data server as root and run this command:

   ```
   python /usr/local/storediq/bin/util/port_handler.pyc -e desktop
   ```

2. Run this command: `iptables -L INPUT`

   In the output of the command, check the list position of the rule that is named PROD-reject, for example, the 6th position on the list.
3. Run this command: `iptables -A INPUT -j PROD-reject`
4. Run this command: `iptables -D INPUT list_position`

   list_position is the position number of the PROD-reject rule that you determined in step 2.
5. Run the following command:

   ```
   python /usr/local/storediq/bin/util/port_handler.pyc -e desktop
   ```

Tip: These steps are required only on an IBM StoredIQ OVA deployed system. The correct ports are open on an upgraded system.