

## 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	
80	
443	

### Default open ports on the IBM StoredIQ data server

Port number	Protocol	Service
22		PROD-ssh
80		PROD-web
443		PROD-https (UI and Web Services APIs)
11103		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		ftp
22		sshd
80		
443		
8888		SimpleHTTPServer (used for copying the siq-elasticsearch.yml configuration file from the Elasticsearch node to the data server)
9200	tcp6	docker-proxy (listening for REST requests) You can restrict access to this port by either enabling Search Guard or by setting up a firewall. For more information, see “Securing Elasticsearch cluster communication with Search Guard” on page 51 or “Restricting access to port 9200 on Elasticsearch nodes” on page 52.
9300	tcp6	docker-proxy (internode communication)

**Default open ports on the IBM StoredIQ gateway**

Port number	Protocol	Service
22		PROD-ssh
80		PROD-web
443		PROD-https (UI and Web Services APIs)
5432		PROD-postgres
5434		PROD-transport (IBM StoredIQ transport services; communication between the gateway and the data server)
8765		
7766		

Port number	Protocol	Service
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-rgistration': ['21001'],
    'PROD-session': ['21002'],
    'PROD-task': ['21003'],
```