



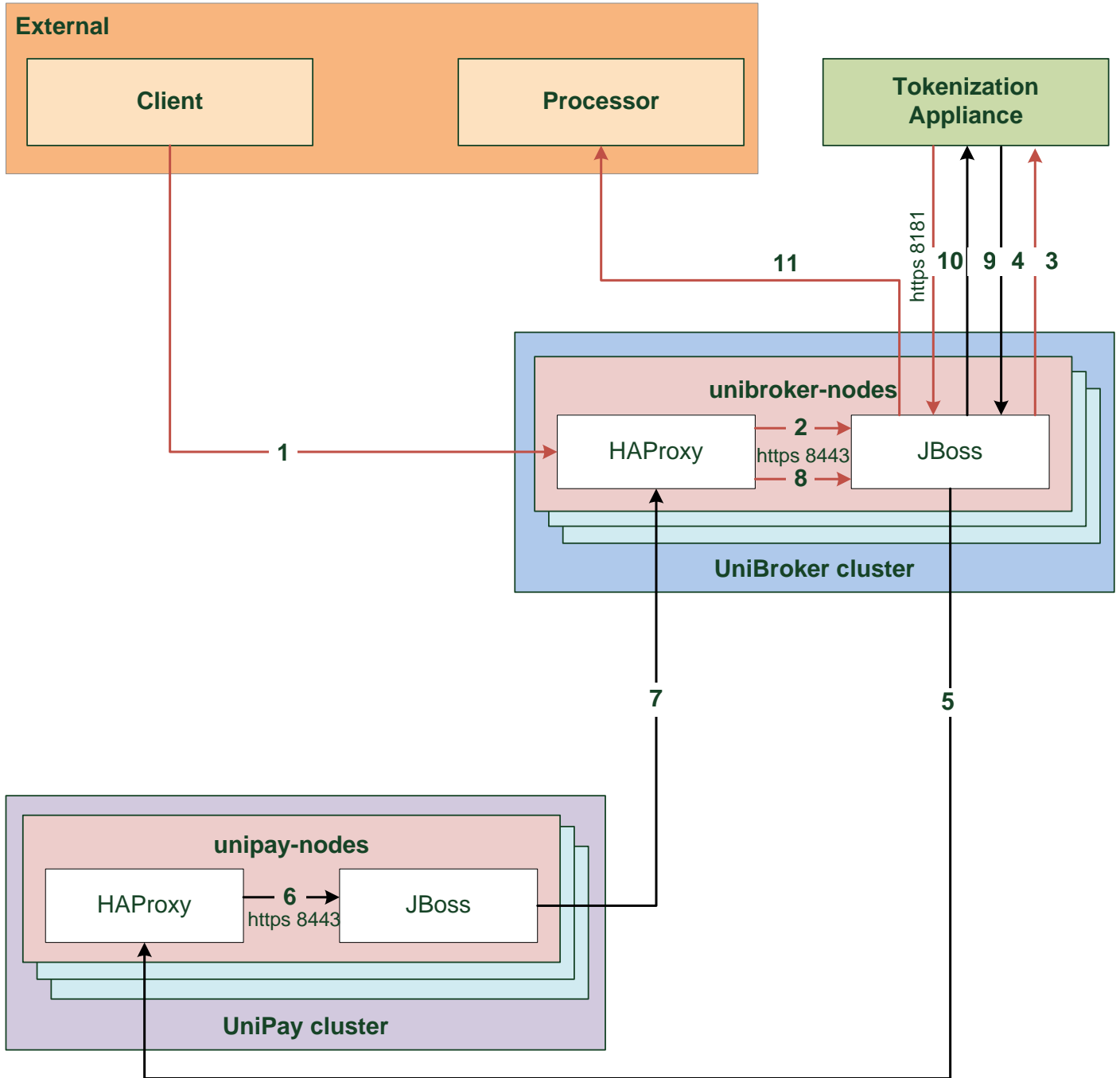
UNIPAY COMMUNICATION DIAGRAMS

HTTPS

Legend

→ no card data → card data present

default port: https 443

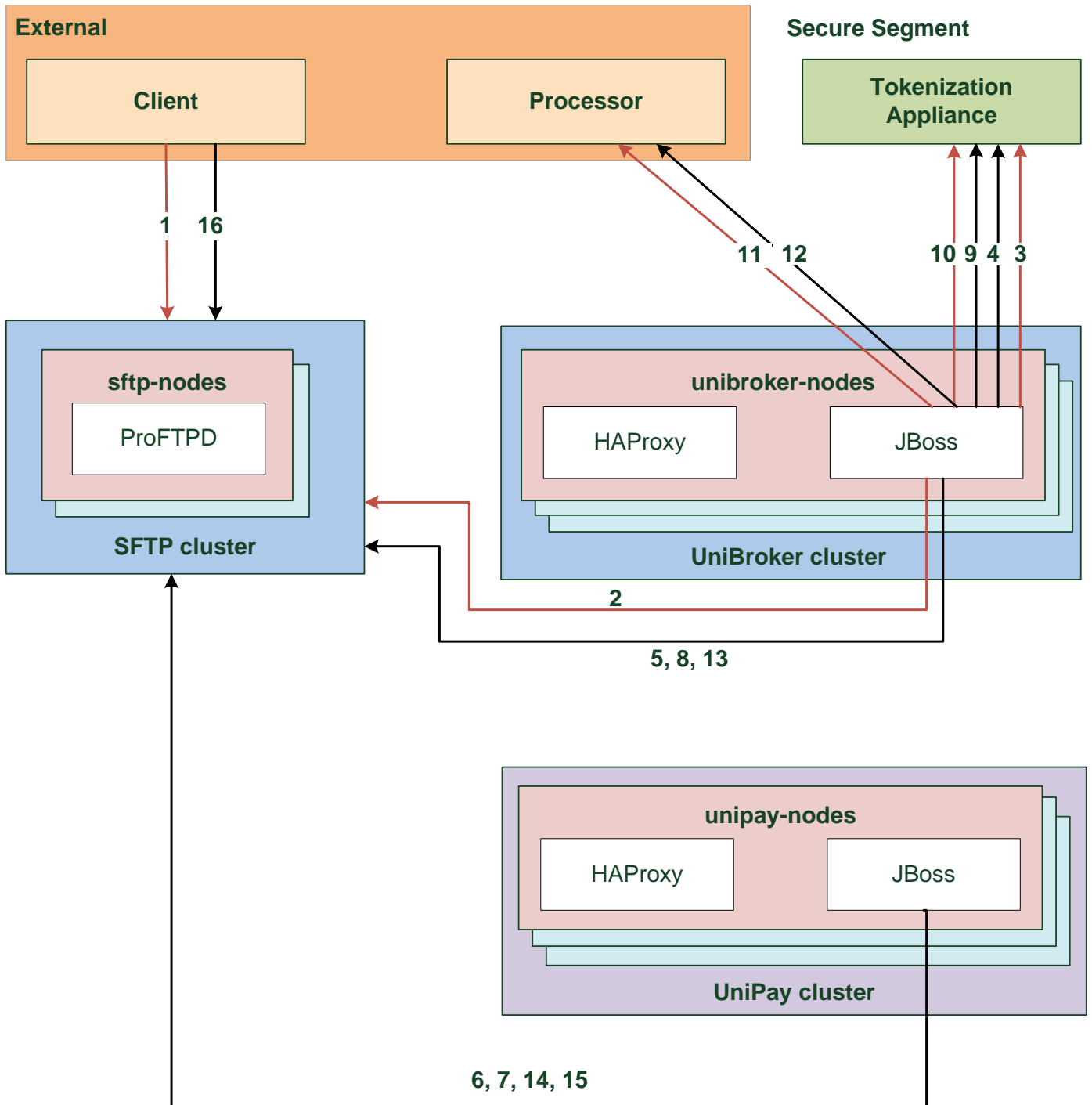


SFTP

Legend

→ no card data → card data present

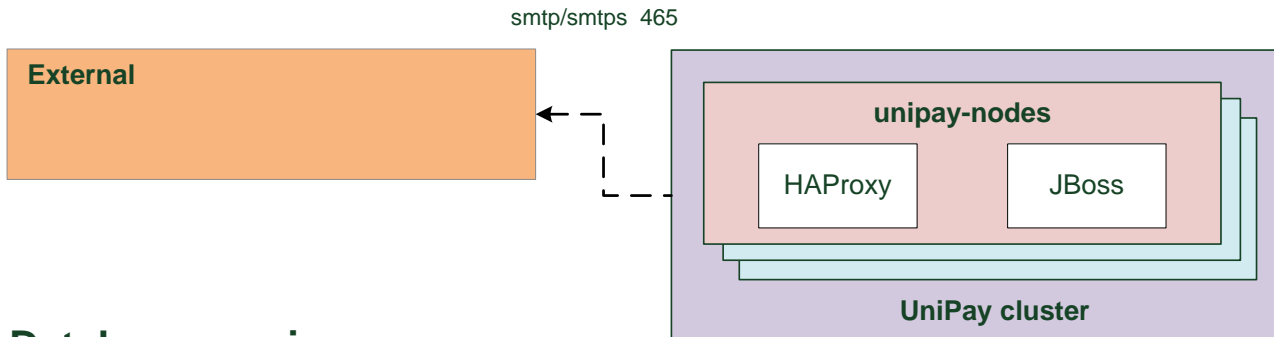
default port: sftp 2222



Email service

Legend

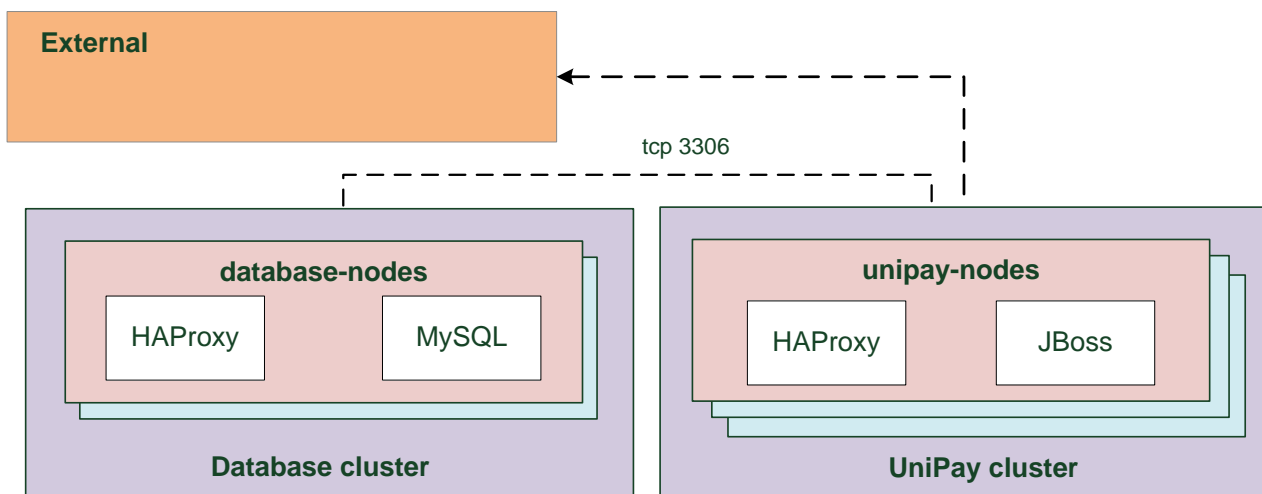
Email services: smtp/smtps 465
(25 and 587 ports may be used)



Database service

Legend

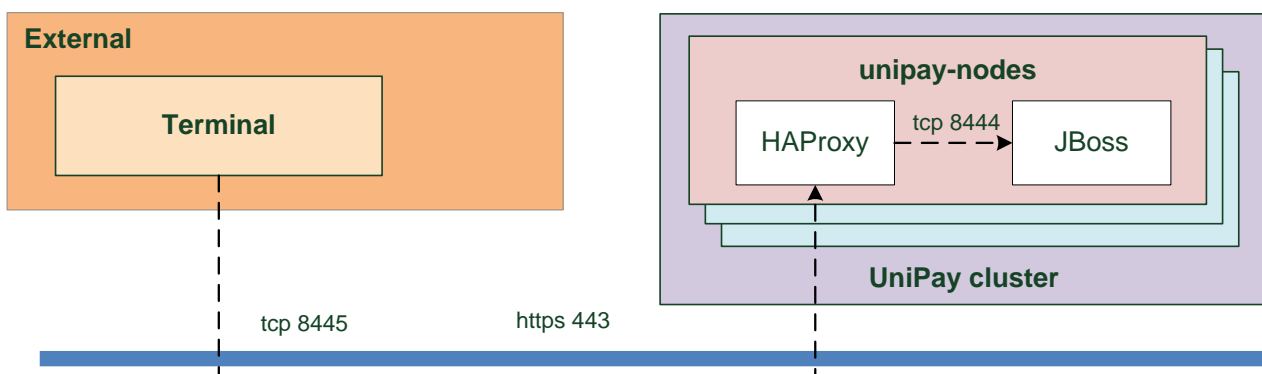
MySQL database: tcp 3306



Terminal service

Legend

Terminal Cloud: tcp 8445



Admin Node

Legend

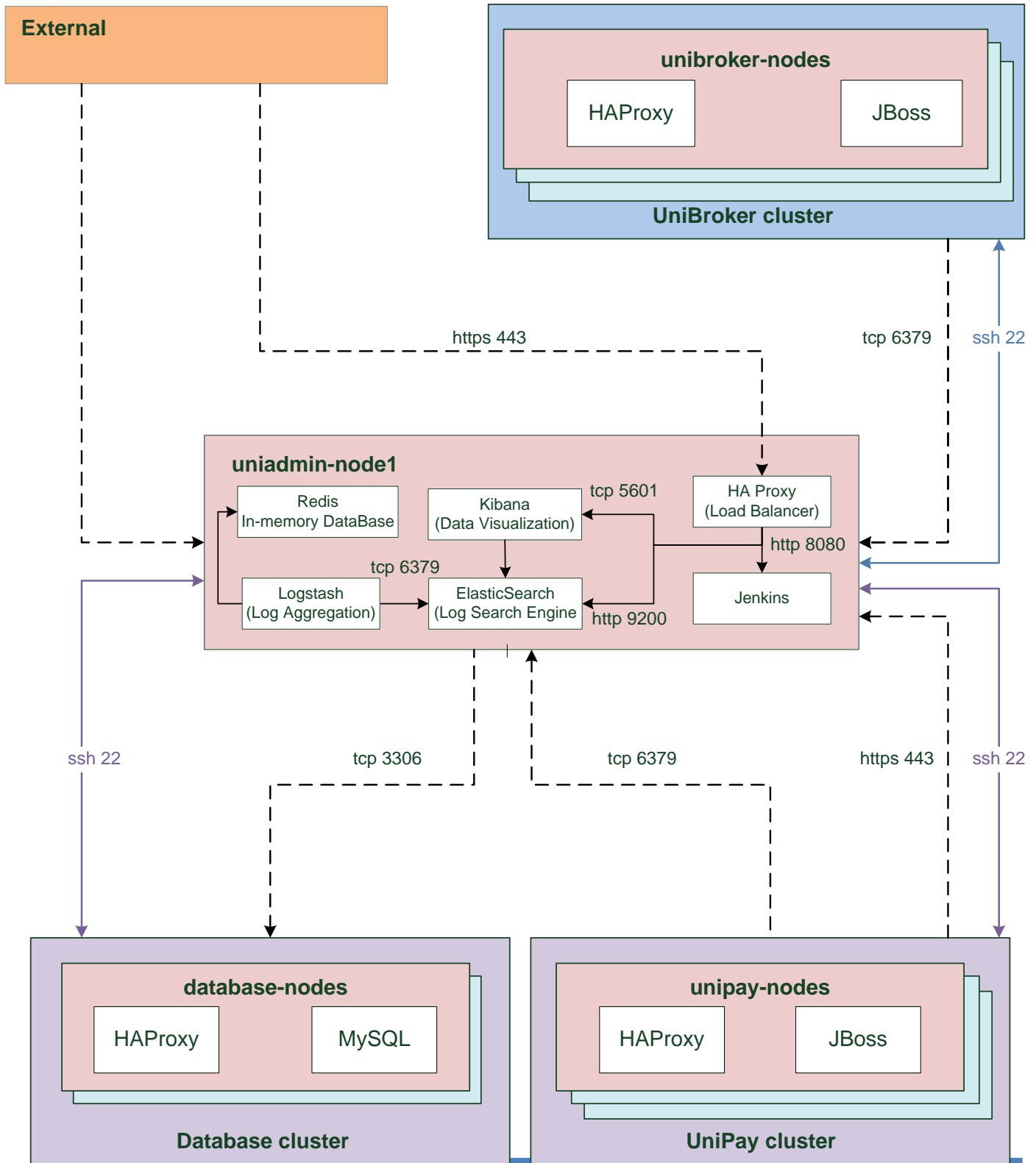
Logging: tcp 6379

ElasticSearch: https 443 (Internal: http 9200)

Jenkins deployment board: https 443
(Internal: http 8080)

Kibana: https 443 (Internal: tcp 5601)

Logstash: https 443 (Internal: tcp 6379)



Use Case	Protocol/ Port	Type	Encryption	Description
User Interface and API Calls	https 443	external/ internal	SSL	Used for connectivity between deployed web applications and clients.
	https 8181	internal	SSL	Used for connectivity between UniBroker and StrongAuth tokenization appliance.
Email Services	smtp 25	external	no	Used for SMTP connectivity with email server to send outgoing emails from UniPay.
	smtp 587	external	TLS	Used for SMTPs connectivity with email server to send outgoing emails from UniPay.
	smtps 465	external	SSL	Used for SMTPs connectivity with email server to send outgoing emails from UniPay.
File Exchange Traffic	sftp 22	external/ internal	SSH	Used for exchange of files submitted by client to the application, by the gateway to a processor and for internal files exchange within the system. Also used to set up SSH-based connectivity within the network, e.g. as a secure shell needed for administrative purposes.
	sftp 2222	internal	SSH	Used for files exchange within the client's SFTP server.
Terminal Cloud	tcp 8445	internal	SSL	Used for connectivity between the cloud and a terminal, as well as between a terminal and POS system.
MySQL Database	tcp 3306	internal	no	Used for connectivity between UniPay and MySQL database, as well as for connectivity between JMS message broker and its database.
Cache Replication (Jgroups)	tcp 7600	internal	no	Used for data transfers between the nodes in HA configuration.
	tcp 57600	internal	no	Used for HA failure detection.
Resources Synchronization (Csync2)	tcp 30865	internal	no	Used for resources synchronization in HA configuration, such as hosted payment pages, properties and config files, included in csync2 tool configuration.
Logging in HA Configuration (Redis)	tcp 6379	internal	no	Used for logging on admin node in HA configuration.