



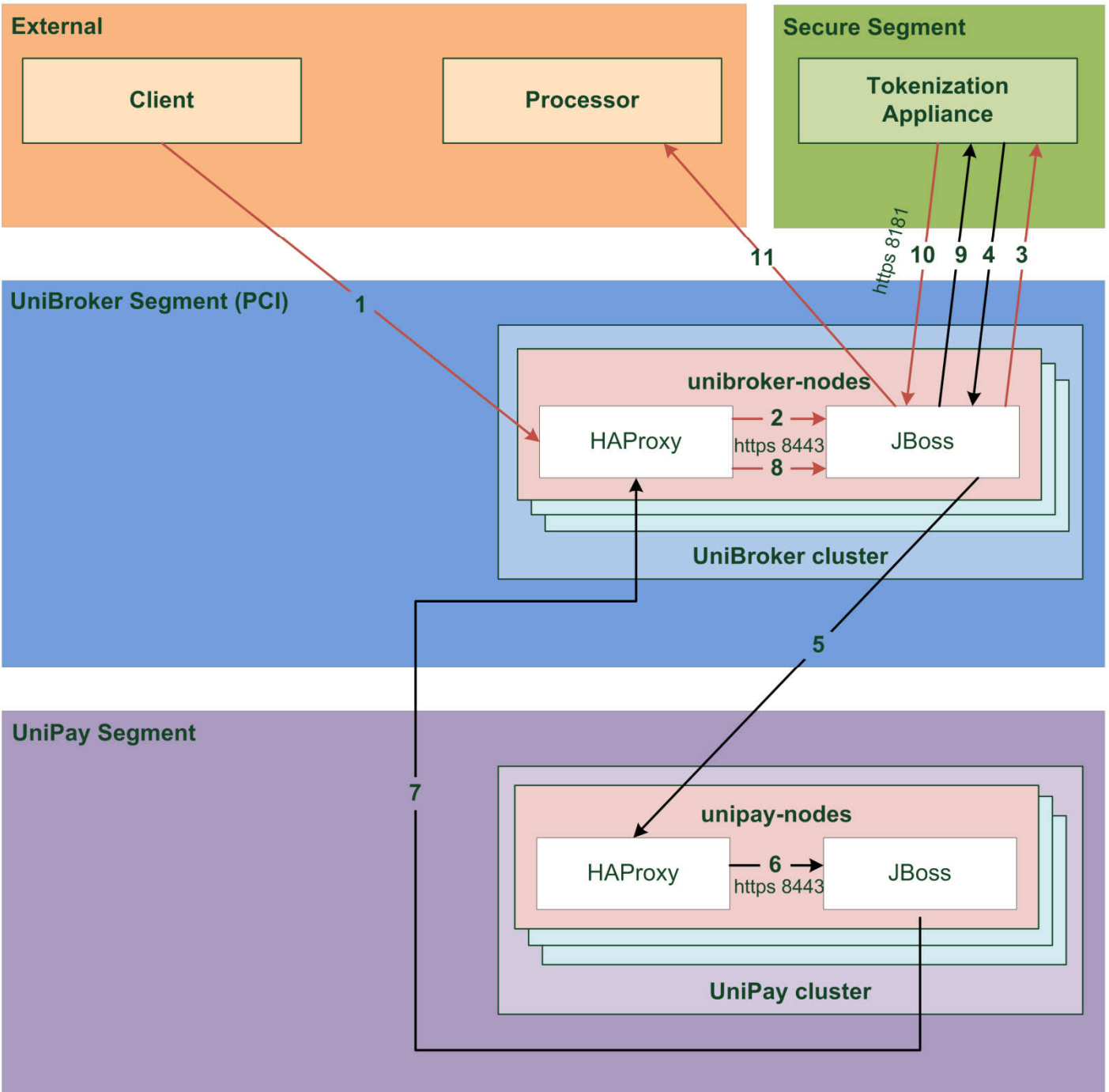
UNIPAY COMMUNICATION DIAGRAMS

HTTPS

Legend

→ no card data → card data present

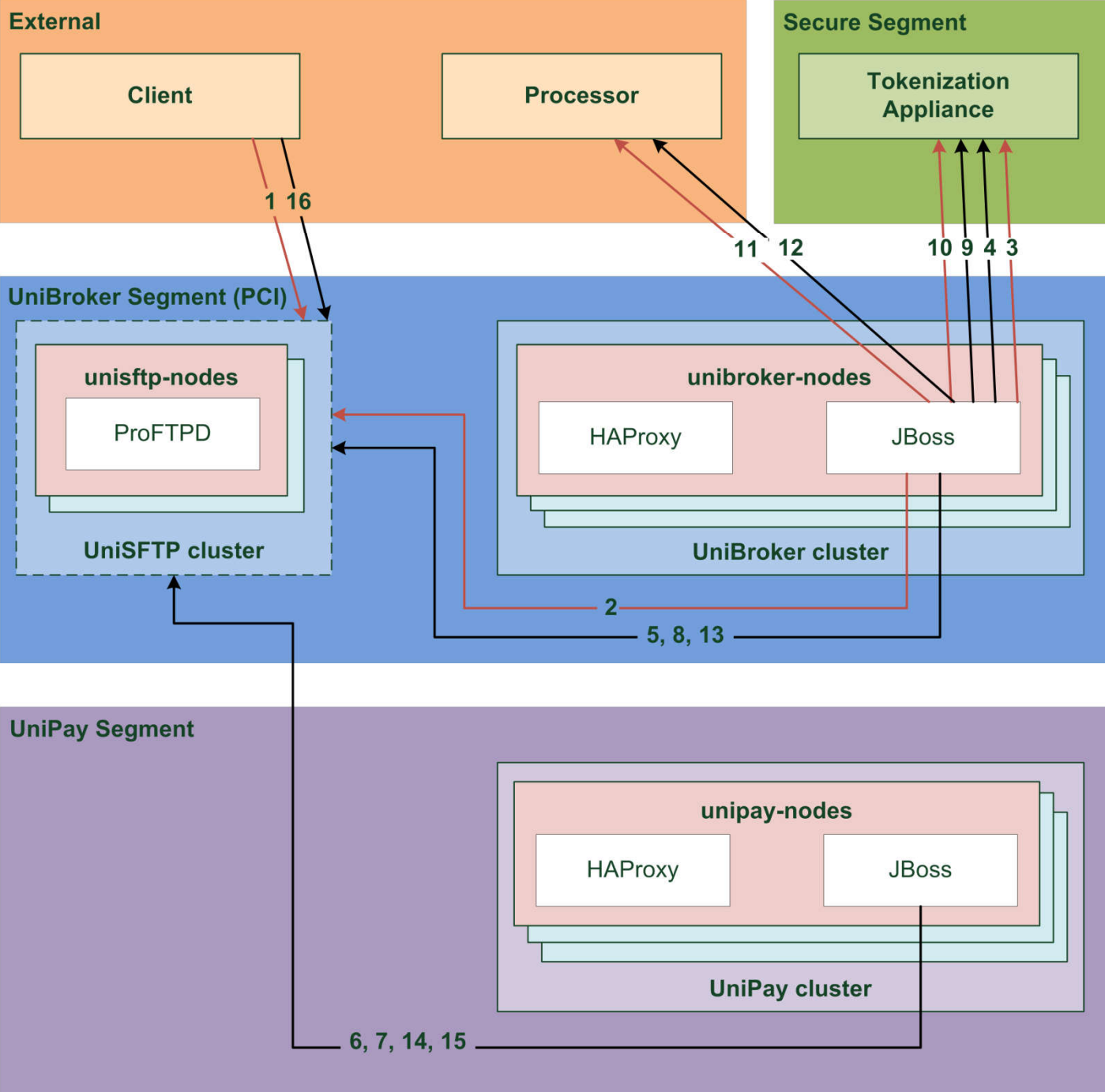
default port: https 443



SFTP

Legend

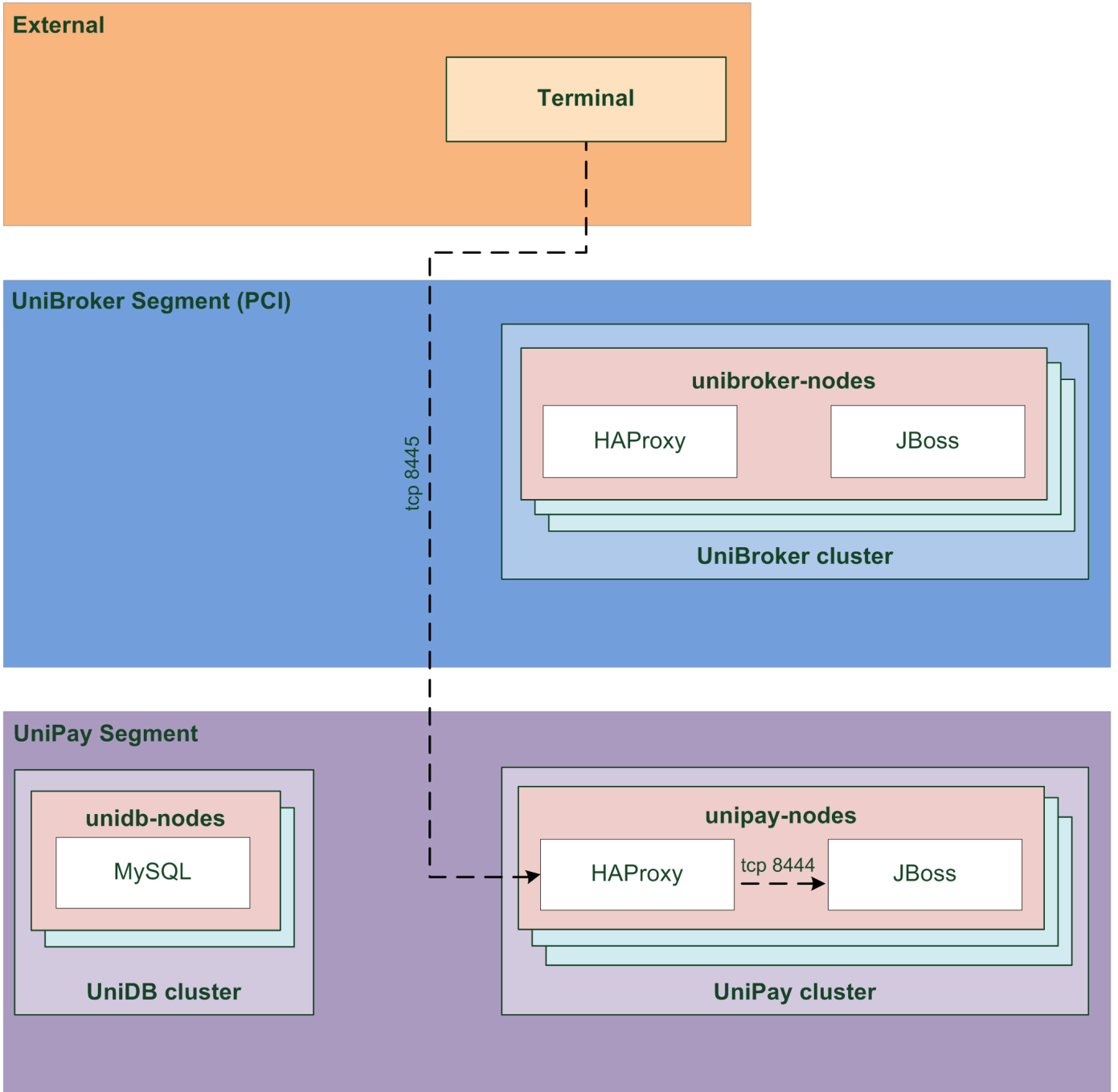
→ no card data
 → card data present
 default port: sftp 22



Terminal

Legend

Terminal Cloud: tcp 8445

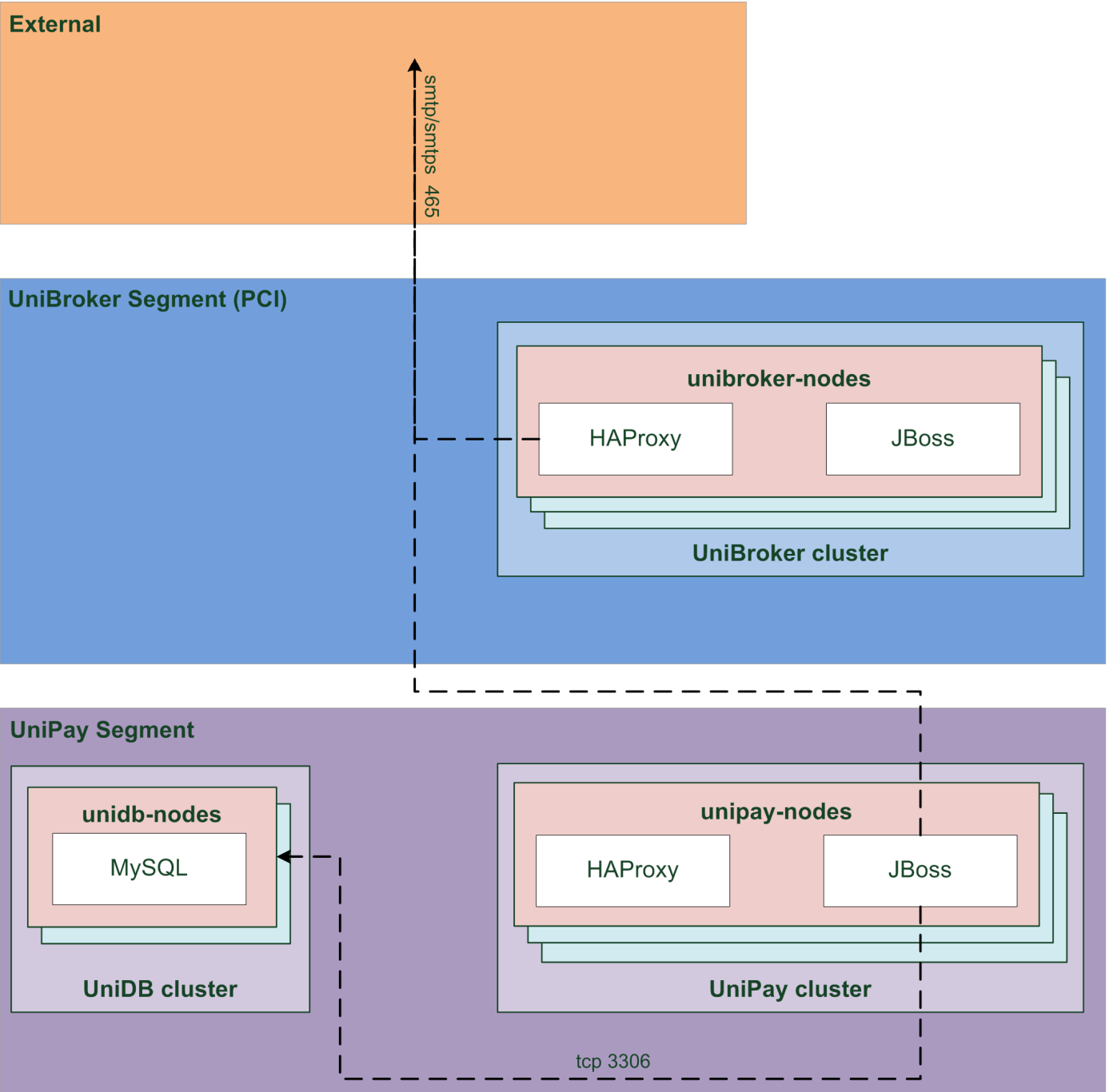


Database and Email services

Legend

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

MySQL database: tcp 3306



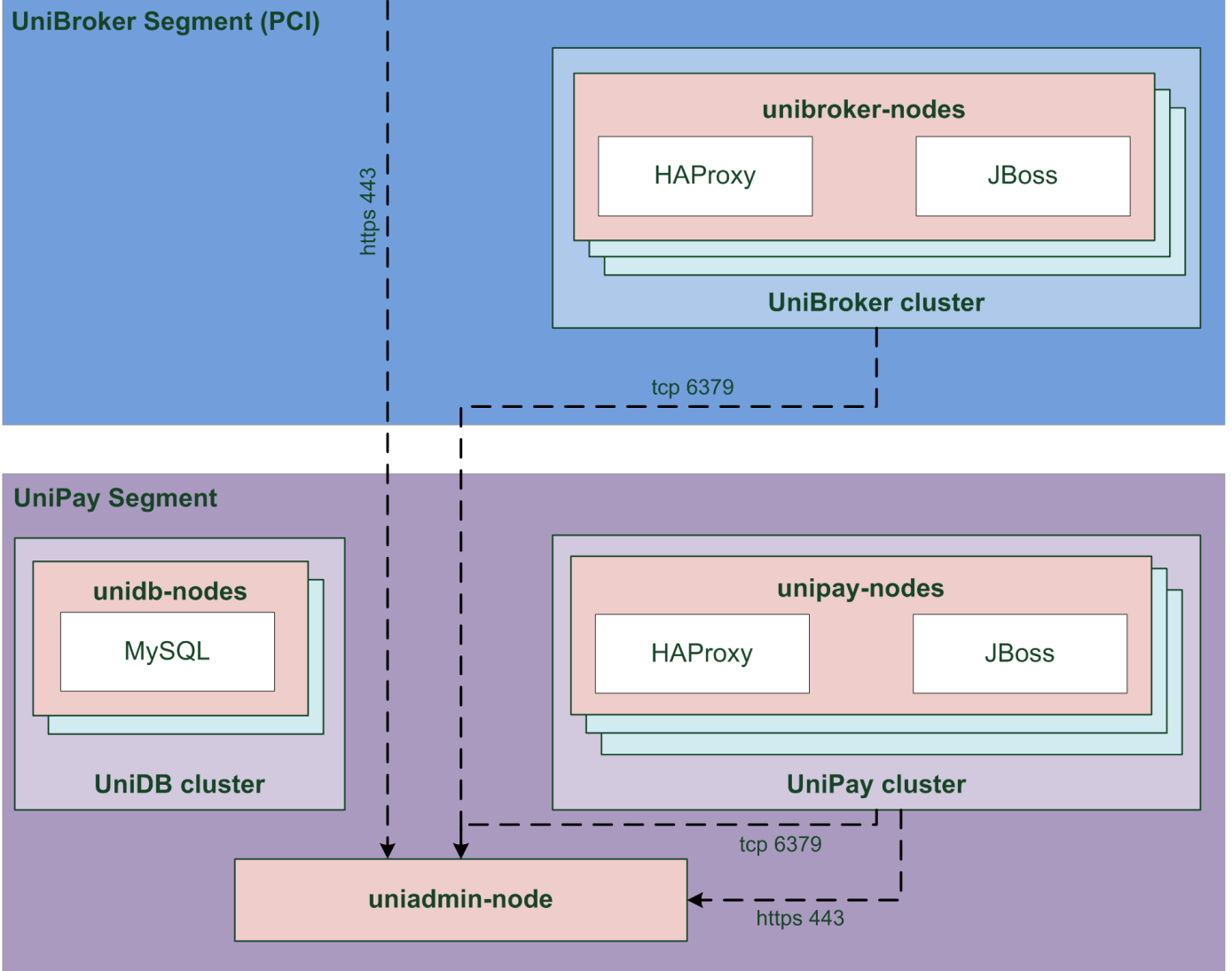
Admin Node

Legend

Logging: tcp 6379
Elasticsearch: https 443

Jenkins deployment board: https 443

External



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.