INFRA: Production Tech Stack



DNS - CSC Global, resolves to Fastly.

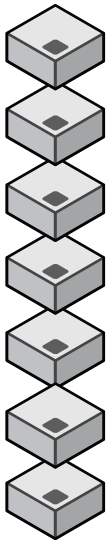
Fastly WAF - resolves to either AWS load balancer. CSP.

Datadome Anti-bot - allows captcha or not blocking.

AWS Elastic Load Balancer - allows inbound 80/443 traffic to node1 (and node2).
See security group in/out rules, destination EC2 instances.

EC2 Nodes - RHEL base stack identical for web app and cache service nodes.
See Local Network Configuration.

OS & Stack - RHEL, OpenSSL, Sodium, zlib, curl, elixir, ssh2, pcre.
See Local Stack.



nginx - web host
See nginx configuration.

php-fpm - Tuned for m5.xlarge EC2 cores.
See PHP configuration.

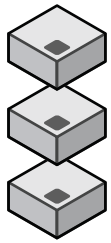
OpCache - Tuned, additional cache monitoring tools for n samples/hr..
See Cachetool

Git - used by CI/CD agent (Quickbuild)
See Git configuration.

Composer - required for CI/CD.
See Composer configuration.

crond - Magento tasks, Node Z only providing order export services.
See Composer configuration.

Magento - CLI for CI/CD
See Magento configuration.



Sophos - Antivirus agent.
See Sophos Antivirus.

Dynatrace - Observability / Performance Monitoring.
See Dynatrace Observability

Quickbuild - CI/CD Agent
See Quickbuild CI/CD

MySQL via RDS - Client, to RDS
See MySQL configuration.

Redis - General, Session and full page cache
See Redis configuration.

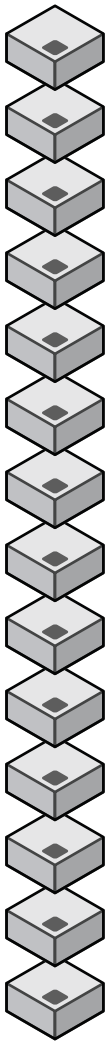
Elasticsearch - Catalog search.
See Elasticsearch configuration.

RabbitMQ - pending, ETA 2024.
See RabbitMQ configuration.

AlertLogic - Intrusion Detection, log aggregation.
See AlertLogic IDS

Dynatrace - Heuristic UI/UX Monitor
See Dynatrace Heuristics

INFRA: Production Tech Stack - Approved 3rd-Party APIs & Services



Azure “Core ALCS” Services - ALCS-managed API provisioning for all partner integrations.
See Core Services/Azure.

GTC / AIM - Consumer identity and age verification. (ALCS proprietary; LexisNexis)
See GTC/AIM.

Activity Tracker - ALCS Proprietary event logging
See Activity Tracker / ATO.

GMR (IQOS Only) - Retail location, catalog, inventory, consumer training and in-store pickup.
See GMR.

DVP (On! Only) - ALCS Proprietary - Digital loyalty and rewards, promotions service.
See DVP.

SMS (On! Only) - Clutch-provisioned, GTC-integrated for consumer opt-in status.
See SMS/Clutch.

Cybersource - Tokenized payment processor. CYBS receives pre-auth & approved..
See Cybersource/Cart.

Salesforce Marketing Cloud - Transactional email services.
See SFMC.

OMS - export/import scheduled ETL gateway.
See OMS.

SAP - OMS-provisioned accounting. Shared integration with SFMC transactional messaging, GTC for identity validation..
See SAP.

Avalara - Sales & Use *PLUS* Excise tax provider, utilizes custom nation-wide tax tables provided by ALCS.
See Avalara Excise

Address Verification - Data provided by USPS, updated monthly.
See GTC/AIM.

Google Analytics - Partner Analytics
See Google Analytics.

Adobe Analytics - ALCS Analytics, AEM & Target integrated
See Google Analytics.













Docker

- Composer
- Composer
- nginx “app”
- Php-fpm
- redis
- mariaDB
- elasticsearch
- rabbitMQ
- mailcatcher
- xdebug
- Blackfire

nginx

- /src: Git Project
- Composer
- Magento

phpfpm “app”

- Proxy:burpsuite
- Burpca.crt
- CacheTool

VS Code

- Atlassian
- Docker
- MySQL
- Kubernetes

Burpsuite

- Proxy:8080
- Chromium
- Burp extensions
- Postman Ext

Chromium

- Burp Recorder
- Awesome Screenshot
- Katalon Recorder
- Omnibug
- Windscribe
- Postman
- Selenium Recorder
- UI.Vision RDP
- Cookie Export

Automation

- UI.Vision RDP
- Selenium Side Runner
- Katalon Studio

Postman

- Brand API
- Avalara API
- GTC API
- Core Svcs API
- ATO API
- CYBS API

DevOps: Solution Architect Tools

