Codenvy

Market Map for Containers
Spring 2016

The Container Disruption

Containers are changing the nature of DevOps and transforming infrastructure. They make tooling and environments consistent by providing common building blocks reusable in any development stage. For tools, containers provide a disposable, reusable unit that modularizes the delivery pipeline. For environments, they extend the write once-deploy anywhere abstraction to infrastructure.

Code and image lifecycle with containers.

Containers defined by recipes allow developers to edit, version and commit changes in the same way they do code leading to a similar (and sometimes dependent) image lifecycle.

Continuous delivery and DevOps with containers.

Containers are simplifying the continuous delivery pipeline.

Continuous Delivery

Continuous Development

DevOps Pipeline

Author code and check in

Developer Workspace

Codenvy — Codenvy, Microsoft Azure, Google Cloud, IaaS Cloud Providers

Eclipse Che — Eclipse Che, Docker, Kubernetes, Red Hat OpenShift, Containers as microservices

eclipse — Eclipse for Docker, Eclipse Docker Tools, Eclipse Docker Images

IntelliJ IDEA — JetBrains IntelliJ IDEA, Docker integration, Docker Tools

NITROUS — Nitrous, Amazon Web Services

ARTIK — Samsung ARTIK IDE, ARTIK and Docker tools

SAP — SAP Web IDE, Cloud Foundry, Docker

VAGRANT — Vagrant, Docker provisioner

Check out and build code

Unit test

Source Code Management

Bitbucket — Bitbucket Server, Atlassian Stash, Atlassian Bamboo, Atlassian JIRA

GitLab — Gitlab, Gitlab continuous integration

Continuous Integration

Continuous Integration

circleci — CircleCI, Docker, Amazon EC2, Google Cloud, IaaS, Jira, Slack, Github, Bitbucket

CloudBees — CloudBees Jenkins CI, Docker, Amazon Web Services

codeship — Codeship, Docker, Amazon Web Services, Google Cloud, Heroku, Rackspace, Slack, Jira, Github, Bitbucket

CODESHIP — Codeship Pipeline&Co, Docker, Amazon Web Services, Integration and delivery

drone.io — Drone.io, Docker, Amazon Web Services, Integration and delivery

Electric Cloud — Electric Cloud, Docker, Amazon Web Services, Jira, Slack, Github, Bitbucket

shippable — Shippable, Docker, Amazon Web Services, Jira, Slack, Github, Bitbucket, Integration and delivery

Travis CI — Travis CI, Docker, Amazon Web Services, Integration and delivery

wercker — Wercker, Docker, Amazon Web Services, Integration and delivery

XebiaLabs — XebiaLabs Overcast, Docker, Amazon Web Services, Jira, Slack, Integration and delivery

Quality control

Code Quality Analysis

CODE CLIMATE — Code Climate, Code quality and metrics

SONARQUBE — SonarQube, Code quality and confidence

Package and archiving

Packaging and Build Automation

Amazon EC2 — Amazon EC2, Amazon Web Services, Cloud Infrastructure

Bamboo — Atlassian Bamboo, Atlassian Stash, Integration and delivery

bitnami — Bitnami, Virtual machine building

bitnami — Bitnami Stackmatic, Integration and packaging through AWS

Gradle — Gradle, Integration and delivery through Docker

HashiCorp — Packer, Docker, Vagrant, Virtual machine automation

Integration testing

Testing Frameworks

PhantomJS — PhantomJS, Headless browser automation

RoboTask — Robot2, Docker, Selenium, Cucumber, Gradle, Gradle Docker, Integration and delivery

SALTSTACK — Salt, Automated testing, Latest containers

Selenium — Selenium, Docker, Selenium Grid, Integration and delivery

Deploy to test environment

Continuous Deployment

Artifact and Image Registry

amazon web services — Amazon EC2, Amazon Web Services, Cloud Infrastructure

docker — Docker Hub, Docker, Docker Registry, Docker Trusted Registry

docker — Docker Registry, Docker, Docker Trusted Registry

JFrog Artifactory — JFrog Artifactory, Docker, Docker Registry

Google — Google Container Registry, Docker, Docker Registry, Google Cloud

Quay.io — Quay.io, Docker, Docker Registry, Docker repository

Twistlock — Twistlock Trust, Docker, Docker Registry, Docker Trusted Registry

Deploy to pre-production

Release Automation

Amazon CodeDeploy — Amazon CodeDeploy, Amazon Web Services, Cloud Infrastructure

Ansible — Ansible, Docker, Amazon Web Services, Google Cloud, Rackspace, Slack, Jira, Github, Bitbucket

CHEF — Chef, Automating and agentless configuration management, Docker

CloudBees — CloudBees, Docker, Amazon Web Services, Jira, Slack, Integration and delivery

DCHQ — DCHQ, Docker, Amazon Web Services, Application automation

puppet — Puppet Labs Puppet Forge, Docker management

SALTSTACK — Salt, Latest containers, Automating and provisioning

Acceptance testing

Deploy to production

Operations Tools

AppDynamics — AppDynamics, Docker monitoring

Datadog — Datadog, Docker, Amazon Web Services, Google Cloud, Rackspace, Slack, Jira, Github, Bitbucket

meros — meros, Docker, Amazon Web Services, Slack, Jira, Github, Bitbucket

New Relic — New Relic, Docker, Amazon Web Services, Monitoring and analytics

RIGHT SCALE — Rightscale, Docker, Amazon Web Services, Management and monitoring

signal fx — SignalFx, Amazon Web Services, Docker, Monitoring

sysdig cloud — Sysdig Cloud, Docker, Amazon Web Services, Monitoring

Management and monitoring

Container Infrastructure

Containers form a refined foundation layer, finding traction in hosted, enterprise, containerized platforms.

Minimal OS	Container Runtime	Container Security	Container Storage	Container Networking	Service Discovery	Orchestration Scheduling Cluster Mgmt
Alpine Linux Small, simple, and secure Linux distribution	Brett LAC Linux containers	CoreOS clair Vulnerability static analysis for containers	Brightbox Cloud hosting provider	CoreOS flannel Virtual network fabric for containers	JetBrick SmartStack Automatic service discovery and cluster-based routing	Apache Mesos Distributed systems kernel
Alpine Linux Docker Image Small, simple, and secure Linux distribution	runC Linux container	Docker Security Scanning Vulnerability static analysis for containers	Ceph Distributed object, block, and file storage	Pipework Software-defined networking for Docker containers	Apache Zookeeper Distributed configuration service	CoreOS fleet Manager for systemd clusters
CoreOS Linux distribution optimized for massive scale	Ubuntu LXD Linux container	Nautilus Rootless runtime	OpenNFS Distributed file system	Weave Virtual network for containers	CoreOS etcd Distributed key-value store	Docker Compose Multi-container application orchestration
RancherLabs RancherOS Linux distribution optimized for containers	Red Hat Atomic Application-centric operating system optimized for containers	OpenVAS Vulnerability scanner	Portworx PX8 Cloud native storage platform		HashiCorp Consul Distributed service discovery and configuration	Docker Machine Provisioning Docker hosts
Red Hat Atomic Application-centric operating system optimized for containers	Ubuntu Snappy Core Application-centric operating system optimized for containers				Mesos-DNS DNS implementation for Mesos	Docker Swarm Native clustering for Docker
Ubuntu Snappy Core Application-centric operating system optimized for containers	VMware AppContext Application-centric operating system optimized for containers				Netflix Eureka Service discovery and registration	Google Kubernetes Cluster management and orchestration for containers
VMware Photon Linux distribution optimized for containers						

Platforms

Amazon EC2 Container Service Amazon Web Services, Cloud Infrastructure	Apcera Policy-based cloud platform	CenturyLink Cloud Cloud Infrastructure	Containerit.io Docker	Diamanti Hardware platform for containers	Engineyard Cloud Infrastructure	Joyent Cloud Infrastructure
Giant Swarm Hosted Docker platform	Gigaspaces Cloudify Orchestration	Google Compute Engine Cloud Infrastructure	HP Helion ActiveState Cloud Infrastructure	IBM Bluemix Cloud Infrastructure	Joyent Cloud Infrastructure	Magnetic.io Cloud Infrastructure
Mesosphere DCOS Distributed operating system	Microsoft Azure Cloud Infrastructure	Nimrody Container based cloud platform	OpenStack Magnum Cloud Infrastructure	OpenStack Nova Cloud Infrastructure	PaaSTA Distributed operating system	RancherLabs Rancher Cloud Infrastructure
Red Hat OpenShift Application platform as a service	Skeptical Distributed operating system	Spotify Helios Docker orchestration	Supergiant Cloud native application platform			

"Container technology is changing the developer landscape for the better, shifting the very nature in how software is authored and delivered by making environments and tooling consistent."

Alex Williams, Founder & Editor-in-Chief

THENEWSTACK

Codenvy

Codenvy connects developer workspaces to the continuous delivery pipeline with on-demand developer environments that are replicable, collaborative and constraint-free.
https://codenvy.com

This market map for containers is maintained by Codenvy.
Contribute content and feedback to this project on GitHub:
http://github.com/codenvy/container-devops

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