

CASE STUDY

ClickIT
SMART TECHNOLOGIES



boatsetter

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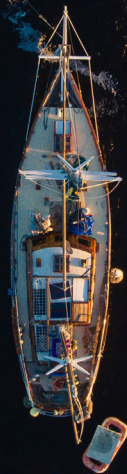
boatsetter

Boatsetter is a platform that allows boat owners to list their boats for rent, captains to find freelance work and anyone on the web who seeks a water-full experience. In the same context as Airbnb and Uber, Boatsetter offers access to privately-owned boats to the masses.

It is an online web application developed in PHP, Laravel, Zend and Lumen; all its infrastructure based on AWS. They needed to transform its infrastructure towards a DevOps based Approach with Continuous Integration and Continuous Delivery (CI/CD) and Automation highly secure following the PCI-DSS regulations, and ClickIT was their solution.

Since Boatsetter is in the Cloud, there are some concerns about cloud security due to data seems on the fly, but definitely, it is easier to protect from hackers because of the continuous security audits and pre-configured cloud environments already secured via Automation.

“ClickIT immediately recognized the potential of delivering a robust DevOps and PCI compliant solution that addresses IT resiliency and security in the Cloud.



Business needs:

1. Cloud Security and Maintain strict PCI compliance.
2. Create a private cloud for staging, back office and enterprise apps.
3. Smooth AWS AutoScaling and transparency on traffic spikes.
4. One Click Deployments with AWS CodeDeploy.
5. Automated Infrastructure and Risk Mitigation with Terraform.
6. Increase developers productivity.
7. Speed-up time to market with CI/CD.

Technologies:

Amazon Auto Scaling, Amazon Route 53, Amazon EC2, Amazon Beanstalk, Amazon RDS, Amazon VPC, OpenVPN, AWS CodeDeploy, Amazon Load Balancer, CircleCI, Github, Jenkins, Laravel, Homestead stack, Lumen, PHP zend framework, PCI compliance, OSSEC, Nessus, WordPress, WordPress multisite, Nginx and PHP 7.



The Process:

1 ClickIT ran a security audit to all their applications and domains. With this exercise, we assessed what risks were present and any potential leak in the current Infrastructure, we technically advised them to run a Vulnerability assessment per each app; with secured services and server instances. With these continuous activities and monthly PCI scans, we complied with the Infrastructure.

2 It migrated to a Virtual Private Cloud (AWS VPC) - The application environment was secured and the Public and Private cloud network were segmented with components including: AWS VPC Networking, routes, NAT and OpenVPN tunneling. ClickIT expanded the startup towards different networks in the cloud, which helped tremendously to protect from security incidents, DDoS attacks, malware attacks and comply with PCI.

“The Amazon VPC experience for the developers is entirely seamless.”

3 Since Boatsetter.com received a second funding round and potentially grow to thousand of users, ClickIT advised to scale its application based on traffic demand. There are just a few Cloud solutions with these features, and AWS AutoScaling is one of them, which can react quickly to business needs. This automatic scalability was replicated to all environments to meet same standards, and if there is a new environment to add in the IT ecosystem. We

automated this repetitive task using Terraform, which has increased agility and reduced time consumption for developers.

4 Automation is essential for DevOps practices so you can develop faster and efficiently. Boatsetter now uses AWS Code Deploy and Github webhooks to automate every deployment, along its front-end and back-end services. Using AWS Code deploy has enabled the ability to rapidly release new features, avoid downtime during deployments and worry less about deployment operations since everything is automated.

5 Before engaging with ClickIT, Boatsetter had a disaster on a physical server where they had to rebuild the entire PHP Laravel stack. Now, all that infrastructure is under code repositories and Terraform templates, everything is recoverable and ready for any catastrophe. With repetitive infrastructure and the need to standardize Boatsetter applications, the startup boosted productivity and saved several costs.

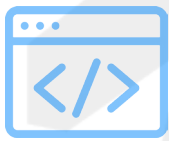
6 ClickIT provided an end-to-end Lean Application Delivery platform alias a Pipeline and suggested to transform the development lifecycle to increase agility, with faster code releases and Cost reductions in operations. CI and CD Pipeline was implemented in the Boatsetter infrastructure, following top notch technologies including Jenkins, AWS Code Deploy, GitHub and EC2 instances.

Conclusion:

Boatsetter engaged with ClickIT to develop and scale applications faster, by automation and troubleshoot critical applications, reducing downtime by 80%. They are loving our DevOps managed services covering from a small service slowness to a complex application architecture in AWS. The best practices of DevOps are here with ClickIT, that's why we've helped visitors transparently rent boats and enjoy the journey through the app.

Business Benefits

Adopting DevOps and AWS with ClickIT:



15%

More in development productivity.



80%

Decrease in outages.



40%

Less time in Infrastructure.



20%

Fewer Bugs found.



20%

More Traffic, due to higher quality end products.

About us:

ClickIT is a leading interactive development agency that implements “open source” tools and Cloud solutions to deliver high-value web and mobile application development for Startups and SMB business. We are Based in Saltillo, Mexico that implements AWS managed services, DevOps, and high-quality development to transform your online business. Our continuous expertise makes companies be successful following our rapid development, agile processes and superior solutions.



Security

Hardening and malware removal. Ask for a security assessment, ethical hacking and penetration testing.



Development

Web and Mobile Development for Ecommerce sites, Startups, Mobile and SaaS Applications.



Migrations

Migrate your application to the Cloud, or move your site to the hosting that suits you best.



DevOps

Continuous integration and Accelerate you Development productivity whit IT automation.



Optimization

Accelerate your application and CMS using caching layers, CDN technologies and tuning your LEMP services.



Cloud Computing

Integrate your online business to the cloud today. Get the benefits that cloud computing can give you.

Our Partners:





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