DevOps

Société Générale chooses alien4cloud to accelerate application development

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Reinventing customer relationships

The digital revolution and changes in behaviour have led to new expectations on the part of consumers, such as mobility, real time, personal advice, security… In order to respond to these new uses, Société Générale wants to reinvent its close customer relationships by proposing an omnichannel model that combines the best of the human and the digital.

The challenge for the IT Department of Société Générale French Networks is to design and quickly deliver innovative digital solutions adapted to the new expectations of its customers.

To reduce time-to-market, management is setting up a DevOps culture: processes for agile development, continuous delivery and automation technology to create and deploy the new

applications as quickly as possible and to respond closely to the needs of business trade organisations while incorporating the quality dimension.

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Optimising application development

Linking all the teams involved

For the IT Department of Société Générale French Networks, one thing was immediately clear: there was sometimes a mismatch between the results expected in production and user expectations, because application development was not in synch with production. It was therefore a question of linking up all the teams involved from development through to production, in conjunction with global management of the application. How? By integrating the whole environment, including the necessary infrastructure for optimal performance, with a prerequisite: modelling the whole application topology. This became a top challenge for Société Générale, as it has for other large companies.

TOSCA: the clear-cut standard

To model this topology, the IT Department of Société Générale French Networks chose a living and evolving market standard rather than an in-house or proprietary one, which is why they chose the TOSCA (Topology and Orchestration Specification for Cloud Applications) standard.

The TOSCA standard, developed by the OASIS consortium, offers an interoperable description language of the applications and infrastructures. The resulting modelling is independent of the supplier, service and technology. TOSCA describes how to deploy and migrate an application and how to increase its performance.

"The alien4cloud solution by Atos brings us a company vision. The Atos experts listen to us and are responsive. We enjoy excellent conditions to set up our project with all the speed and quality we require."

**Jean-Claude Michel,
DevOps Programme Manager,
Société Générale**

A complete DevOps environment

Loading 80 % of application developments

To accelerate the frequency of deliveries and to improve the quality of the deliverables, the IT Department of Société Générale French Networks launched an ambitious 3-year programme, with a dedicated multi-disciplinary team, consisting of technical architects, developers, operators and security experts. The programme is based on a roadmap validated by all the study departments. The longterm objective is to load 80 % of the application developments into the model.

Once Société Générale had established the main principles of the programme, it looked for a DevOps solution and a partner to support it in this programme.

Société Générale chooses alien4cloud

Société Générale chose Atos and its alien4cloud software suite based on the Tosca standard. Alien4cloud brings a complete DevOps environment to The IT Department of Société Générale French Networks. All the teams (development, operations, application managers, architects, quality and business managers) work together and carry out their deployments from a single self-service portal, which covers all the application lifecycle stages and enables fast deployments on any environment (physical and virtual servers, docker containers or cloud environments).

TOSCA is a global standard and requires the involvement of every actor. Specifically, this means bringing all the actors around the table and defining an evolving model in co-construction that can be understood by everyone.

Multiple benefits

Time to market reduced by 66%

The IT Department of Société Générale French Networks has managed to reduce the time-tomarket for its projects from 18 months to 6 months to deliver and deploy its applications. The adoption of alien4cloud brings an enormous benefit in terms of productivity and quality of the deliverable.

Close to zero-error quality

Deploying applications with their ecosystem potentially took many hours, even days, of stabilisation when it was necessary to deal with numerous incidents. With alien4cloud, there's no notion of stabilisation given that everything has been made explicit. After having set up a solid quality process, the new applications can be validated on a target environment, then infinitely replayed, without discovering errors. The incident rate is close to zero, while the deployment times are a matter of minutes integrating the application and its ecosystem.

Always up to date

Key point: the model made under alien4cloud for each application loaded onto the DevOps platform at Société Générale is an executable model and is therefore always up to date. The applications can be deployed on all the environments up to production. This means enormous benefits for Société Générale in terms of responsiveness. Developments and deployments are a lot faster, quality objectives are achieved, and, what's more, the application and environment are no longer out of synch. An additional advantage is that it is easy to switch back to an earlier version of the application and its environment.

Main benefits

- Reduction in project time.
- Quality, reduction in incidents
- Dynamic environment improvingwork within the teams
- An innovative solution enabling Société Générale to attract new talent

"Today, on small projects, we can clearly see the benefit, simplicity, productivity and quality. The current trend is to include ever bigger projects."

Jean-Claude Michel,
DevOps Programme Manager,
Société Générale

About Atos

Atos SE (Societas Europaea) is a leader in digital transformation with circa 100,000 employees in 72 countries and pro forma annual revenue of circa € 12 billion. Serving a global client base, the Group is the European leader in Big Data, Cybersecurity, Digital Workplace and provides Cloud services, Infrastructure & Data Management, Business & Platform solutions, as well as transactional services through Worldline, the European leader in the payment industry. With its cutting edge technologies, digital expertise and industry knowledge, the Group supports the digital transformation of its clients across different business sectors: Defense, Financial Services, Health, Manufacturing, Media, Utilities, Public sector, Retail, Telecommunications, and Transportation. The Group is the Worldwide Information Technology Partner for the Olympic & Paralympic Games and is listed on the Euronext Paris market. Atos operates under the brands Atos, Atos Consulting, Atos Worldgrid, Bull, Canopy, Unify and Worldline.

Find out more about us
atos.net
ascent.atos.net

Bull is the Atos brand for its technology products and software, which are today distributed in over 50 countries worldwide. With a rich heritage of over 80 years of technological innovation, 2000 patents and a 700 strong R&D team supported by the Atos Scientific Community, it offers products and value-added software to assist clients in their digital transformation, specifically in the areas of Big Data and Cybersecurity.

Bull is the European leader in HPC and its products include bullx, the energy-efficient supercomputer; bullion, one of the most powerful x86 servers in the world developed to meet the challenges of Big Data; Evidian, the software security solutions for identity and access management; Trustway, the hardware security module and Hoox, the ultra-secure smartphone. Bull is part of Atos.

For more information, **visit bull.com**

About Société Générale

Société Générale is one of the leading European groups for financial services. Based on a diversified universal banking model, the Group combines financial strength and a strategy for sustainable growth with the ambition of being the customer-oriented bank, the reference for its markets, close to its customers, chosen for the quality and commitment of its teams. An actor of the real economy for 150 years, Société Générale has more than 148,000 employees in 76 countries and supports 30 million customers every day throughout the world by offering a wide range of advice and customised financial solutions to individuals, businesses and institutional investors. It consists of three complementary core businesses:

- ▸ Retail banking in France under the Société Générale, Crédit du Nord and Boursorama brands, which offer a full range of financial services with a sophisticated and digitally innovative multi-channel offering.
- ▸ International retail banking, financial services and insurances with networks present in developing geographical areas and leading specialised trades in their markets.
- ▸ The corporate and investment bank, private bank, asset management and securities services with recognised expertise, international key positions and integrated solutions.

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