



For Le Bourget Communauté, there's no limit to what can be virtualized!



Communauté de Communes de l'Aéroport du Bourget

HQ: Le Bourget
France

Cities: 3

Population: 82243 inhabitants

Project Manager:

David Larose

Servers:

9 blade servers
1 DMZ
16 VDI virtualized servers
Nexus 1000V and 7000
vSphere 4.0

Virtualization level: 99%

Result:

70 virtual servers

virtualized network edge

virtual mode VoIP

Big savings and better control of
the virtual infrastructure

With vSphere virtualization from VMware and the Cisco Nexus® 1000V virtual switch, Le Bourget Communauté has virtualized their servers and desktops. Voice over IP (VoIP) virtualization, an impossible task prior to the arrival of the Cisco® Nexus 1000v virtual switch, is the next step.

David Larose heads the IT infrastructure team for the Communauté de Communes de l'aéroport du Bourget, a group of three municipal authorities (Le Bourget, Drancy, and Duny) in the northeastern suburbs of Paris. One thousand desktop PCs support the efforts of 2500 employees, delivering a vast range of services to the public. User needs are challenging in their diversity : from the welcome desk to the back office, running software ranging from standard office automation applications to specialized tools for planning and operations, with PCs located in town halls, schools, libraries, and multiple other facilities, including self-service kiosks for the public. The CIO of Le Bourget Communauté, however, has everything under control.

The project began in 2008 with the launch of an ambitious plan to virtualize the infrastructure, with the objective of saving space. Additional benefits included having servers dedicated to specific functions, difficult with the previous infrastructure, and easy cloning of servers for test purposes. Twenty-seven physical servers, supporting various applications with multiple data storage models, were virtualized. "We virtualized everything, including the DMZ and the Exchange 2007 server, despite Microsoft telling us it wouldn't work," says Larose. "We're now running 70 virtual servers." Satisfied with the results, the organization made the decision to extend the program, virtualizing the 1000 desktop PCs over the network.

The virtual desktop deployment is based on 16 blade servers hosted in the Drancy data center. Focusing on machines running less demanding office automation applications reduces the CPU load. Applications are virtualized using VMware ThinApp, reducing the number of templates needed, with just one Windows XP master. Storage requirements are kept under control by using a linked clone deployment, such that only the differences between the virtual desktop and the template need to be saved to disk. "Our 6TB SAN is easily big enough for our needs," says Larose. "A year ago, before the linked clone technology was available, I would have needed much more."

Improved efficiency and reliability

Solution Architecture Diagram



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The next major project on the roadmap for Le Bourget Communauté is a disaster recovery plan. “We’re looking at two options,” says Larose. “Either we build a secondary data center in one of the two other municipalities or we opt for the vCloud solution, with our backup virtualized and hosted by a service provider. That would give us real-time replication, like the first option, but at the moment there aren’t any European vCloud providers.”

<http://www.vmware.com/solutions/partners/alliances/cisco.html>

Nearly 100% virtualized! For David Larose, CIO of the Communauté de communes - Le Bourget Airport the sky's the limit when it comes to virtualizing the IT infrastructure. Servers, storage, desktops, DMZ, VoIP - all are virtualized. How does he do it? With VMware vSphere and the Cisco Nexus 1000v virtual switch. "Without the Nexus 1000v and vSphere products, we wouldn't have felt so confident about virtualizing our VoIP deployment. Today we're ready to virtualize everything. There's no limits!" says David Larose.



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