DELPHIX JET STREAM
Clearing the Path to Continuous Development

Organizations are increasingly dependent on technology and application delivery to execute core business processes and to compete effectively. Not surprisingly, lines of business are pushing IT teams to deliver on application projects faster and with higher quality. Continuous development is the new mantra but most organizations are struggling to shift from traditional waterfall development models to agile and continuous development at scale. DevOps seeks to accelerate agile development by enabling software developers and IT operations teams to work collaboratively and more efficiently. In fact, the DevOps movement has ushered numerous new commercial and open source tools that are transforming IT agility in areas of IT responsibility like build and configuration management, code versioning, infrastructure monitoring etc. However data still represents a major bottleneck to achieving full stack agility and continuous development goals in application projects.

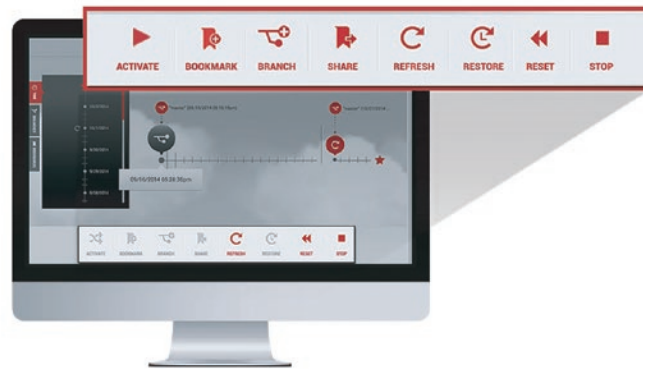## BUSINESS BENEFITS

DATA ON DEMAND
for application teams

FULL GOVERNANCE CONTROLS
for IT operations

2X OUTPUT
for application development

10X LOWER COST
on infrastructure

20%-50% REDUCTION
in production errors

Delphix Jet Stream eliminates data related bottlenecks by extending virtual data on demand to application development teams as a self service.

DATA IMPAIRS AGILITY AND PRODUCTIVITY

Core applications sit atop large data sets that overwhelm IT resources and impair agility. To drive pace and quality of application releases, multiple copies of production data are needed for development, testing, integration, staging, training etc. Analytics, data protection, modernization, and compliance are other common projects that drive up demand for environments. However, creating more environments to parallelize development and testing can quickly compound infrastructure costs. Additionally, each new copy introduces more requests to provision, branch, integrate, secure and share data across application landscape environments.

Today, those basic data management tasks can take days to weeks of coordinated effort across several application and operations teams. Slow approval cycles play a key role in increasing wait times and eroding productivity. As a result, application teams hold on to environments even when not in use because they know it will take weeks to re-provision when needed. This in turn drives down utilization metrics and increases costs.
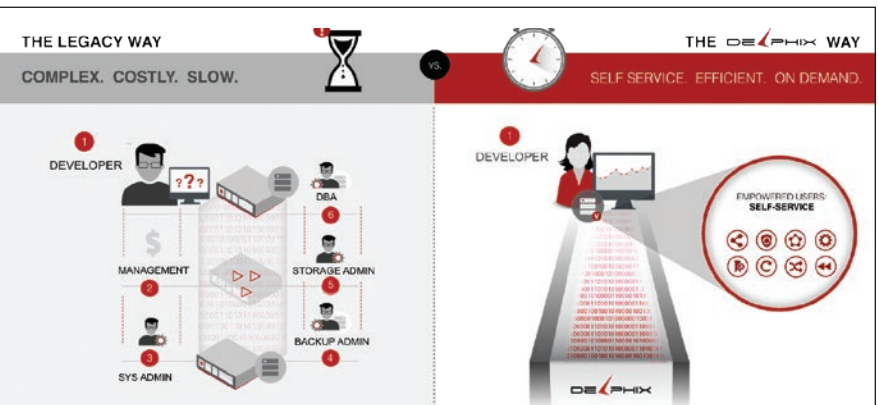

A recent survey by Electric Cloud suggests:

Developers lose 25% of productivity waiting on environment management, test or build completion.

For testers, the productivity hit is far more staggering at nearly 50%.

Meanwhile DBAs lose up to 40% of their time to building out data environments.

DELPHIX JET STREAM: EXTENDING DEVOPS TO DATA

Delphix Jet Stream builds on the Delphix Virtual Data on Demand platform and provides a framework and interfaces to extend self-service data management to application teams. The Delphix platform synchronizes with application stacks continuously and non-disruptively. By only requesting change-data, Delphix eliminates the overhead that frequent full data extracts impose on production operational sources. Delphix also synthesizes and compresses source data, along with changes, into a continuous timeline or "Time Flow." From this Time Flow, Delphix enables virtual application copies (including application binaries, configuration files, and databases) to be created from any point in time, in minutes. Delphix Jet Stream extends the power of virtual data to application project teams as a self-service.

KEY CAPABILITIES OF DELPHIX JET STREAM

SELF SERVICE

Jet Stream enables application project teams to access data on demand. So developers can branch data in sync with their code branches. Trainers can instantly reset environments between successive classes. BI analysts can refresh multiple reporting copies from their respective sources in minutes. A QA user who finds a bug, can instantly bookmark and share data with a developer to enable rapid troubleshooting against a consistent data set. These tasks can all be orchestrated entirely by Delphix with no involvement beyond the requesting user.

DATA GOVERNANCE

Jet Stream gives IT operations full control and visibility over infrastructure while extending self-service to developers. Operations teams can define exactly which sources a Jet Stream user can connect to and what target infrastructure they can connect to or disconnect data from. Operations teams can also define user groups within which application data can be bookmarked and shared without the need for any operational involvement. Delphix also logs and reports all user actions to provide full visibility and governance.

DEVOPS READY

DevOps has given rise to an ecosystem of technologies that interoperate and integrate to drive agility across IT operations and applications teams. Jet Stream provides a developer friendly GUI in addition to a comprehensive API that can be easily integrated into emerging workflows and technologies. For example, in the process of refreshing a downstream environment, the operating system could be reimaged by tools like Cobbler while tools like Puppet or Chef can execute post-imaging configuration steps. The Delphix API can be invoked at the right point of the workflow to deliver data to the target infrastructure.

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