DELL Technologies
Solution Brief

DevOps at the Edge

Automating Edge Operations with Dell NativeEdge

The proliferation of edge computing represents a monumental shift that will rival and eclipse the rise of cloud computing.

The edge has set of challenges:

- Environmental and hardware diversity
- Operations technology workload support
- Distributed systems operation
- No local IT support
- Secure operations support
- Silos and proliferation

Edge operations:

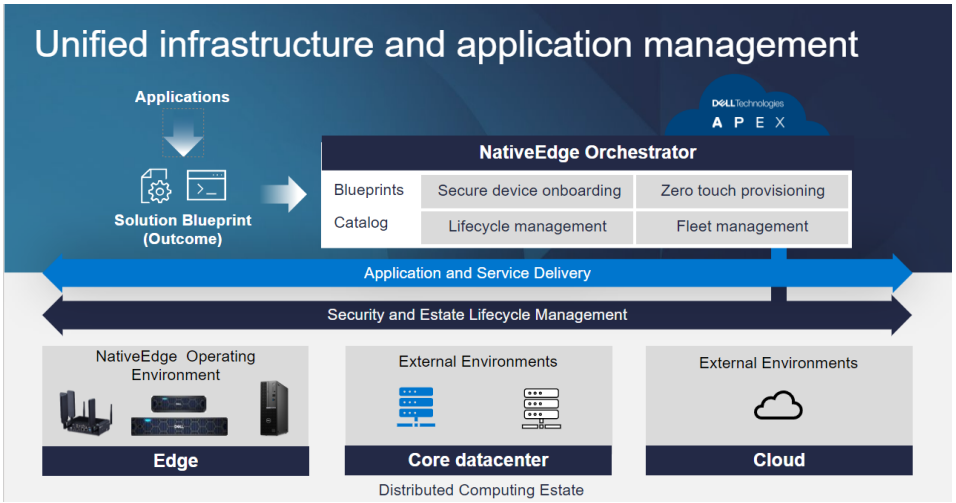
- Without skilled local resources
- With Zero Trust
- Simplify connectivity
- Start small
- Massive scale
- Multi-cloud by design

DevOps Overview

DevOps is an operating model that aims to bridge the gap between the engineering resources that build and maintain applications, as well as the operations teams who are responsible for deploying and monitoring the same applications for user consumption.

DevOps as a practice has surged sharply with the rise of cloud computing. The cloud has transformed the industry by enabling practitioners to hide underlying infrastructure through abstractions and APIs (application programming interfaces). This breakthrough provides an unprecedented level of speed and scalability. Practitioners use these abstractions and APIs to build tools that simplify the provisioning and deployment of applications into these environments.

Dell NativeEdge is defining a new operating model for the edge.

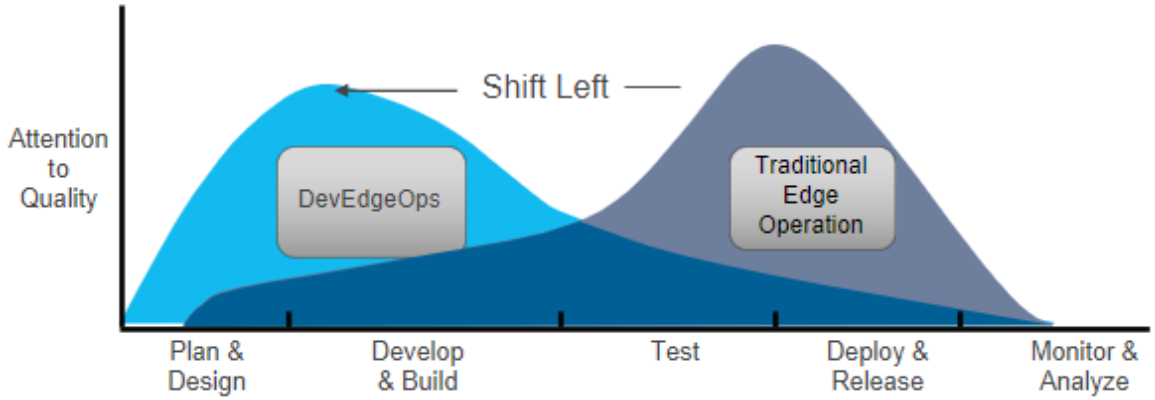


This operating model has abstractions and APIs that let the customer concentrate on application and solution delivery in a way that was only available in the cloud, with even more capability.

With control spanning from the edge, across the core, and to the cloud, organizations can execute edge devOps at scale, optimize edge investment, and secure their estate with zero trust.

DevEdgeOps

Operating solely in the cloud means you do not need to supply skilled resources for hardware deployments. Also, connectivity challenges are rare and use a single cloud vendor.



NativeEdge revolutionizes traditional edge operations by strategically shifting them earlier in the customer journey. The traditional edge operations are all high-touch and require a massive investment in worker hours. In addition, organizations often require specialized assistance in setting up edge sites due to complexity. Due to their characteristics, edge sites often include a wide range of environmental and hardware diversity, geographically dispersed locations, specialized workloads, and specific requirements for secure operation.

Dell stands out as a solution provider for tackling these challenges as a vertically integrated manufacturer of computing devices, with a diverse offering to cover your specific use cases.

With NativeEdge, a customer can have devices drop-shipped to specific locations where they only need to be connected to a network and powered on. The NativeEdge Orchestrator handles the device onboarding and secure provisioning after the customer uploads a voucher, which inextricably ties the ownership of the device to the NativeEdge Orchestrator where the voucher resides.

After devices are onboarded and provisioned, customers can upload their applications to the NativeEdge Orchestrator Application Catalog where they can then be deployed to any onboarded device. This all happens from the NativeEdge Orchestrator, which is the centralized software control plane that is deployment flexible.

The NativeEdge platform redefines edge operations at scale.

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