Enabling Applications to Drive Network Services

An Improved DevOps Architecture

v3

Objectives

Include the network in DevOps

1. Make network services part of development process
   a. Enable Verizon customers to be more agile
   b. Make Verizon a leader in DevOps

2. Add the network to the application lifecycle automation
   a. Applications can then request services dynamically
   b. The network is then responsive to application needs

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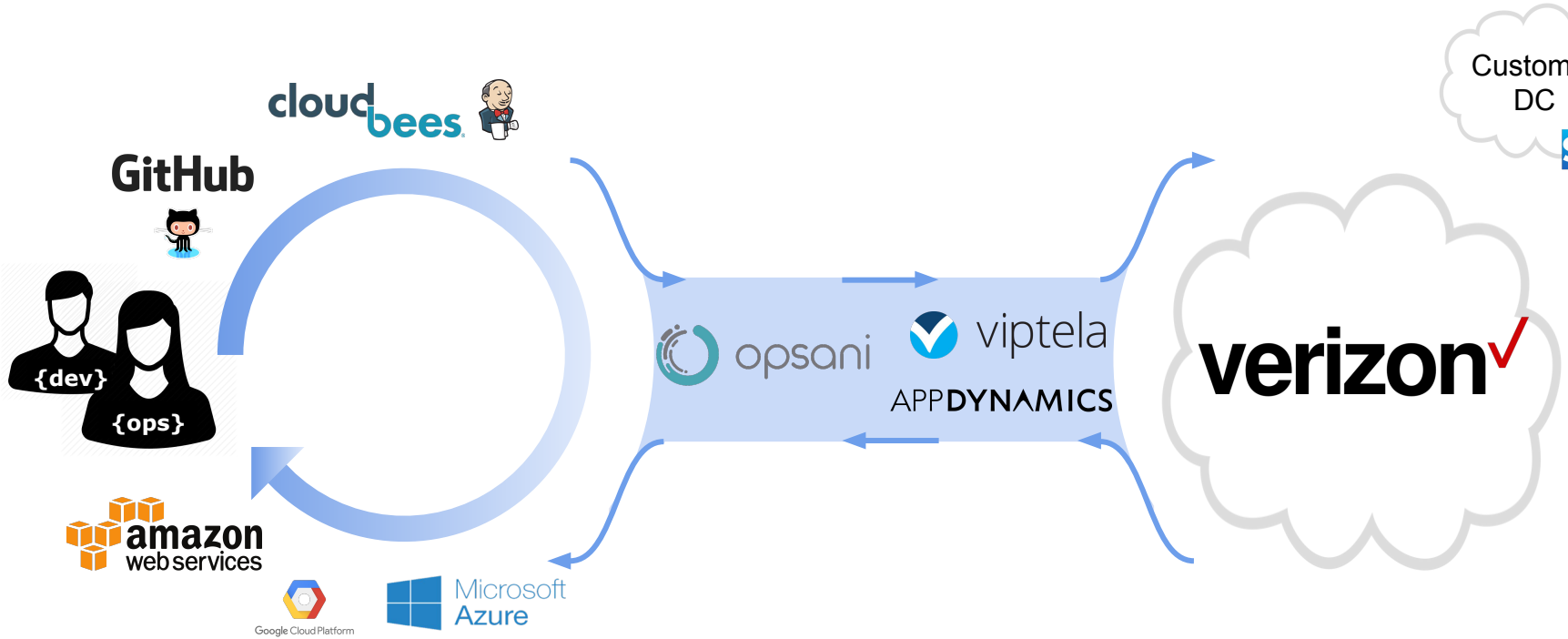
Integrating Network Services With DevOps



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Basic App Lifecycle Use Cases

1. Launch an app and its network services
2. Terminate an app and its network services

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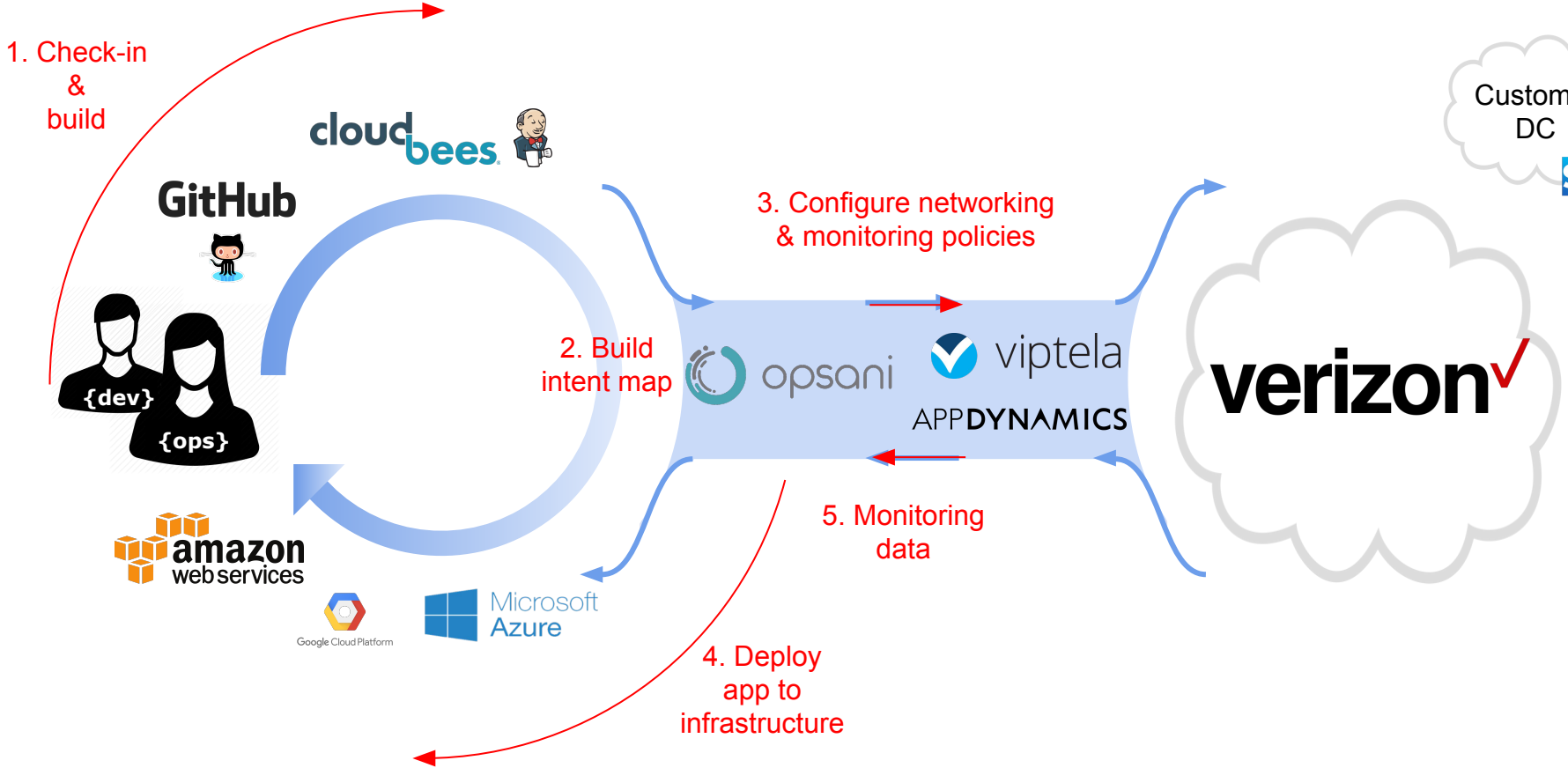
Launch an app and its network services



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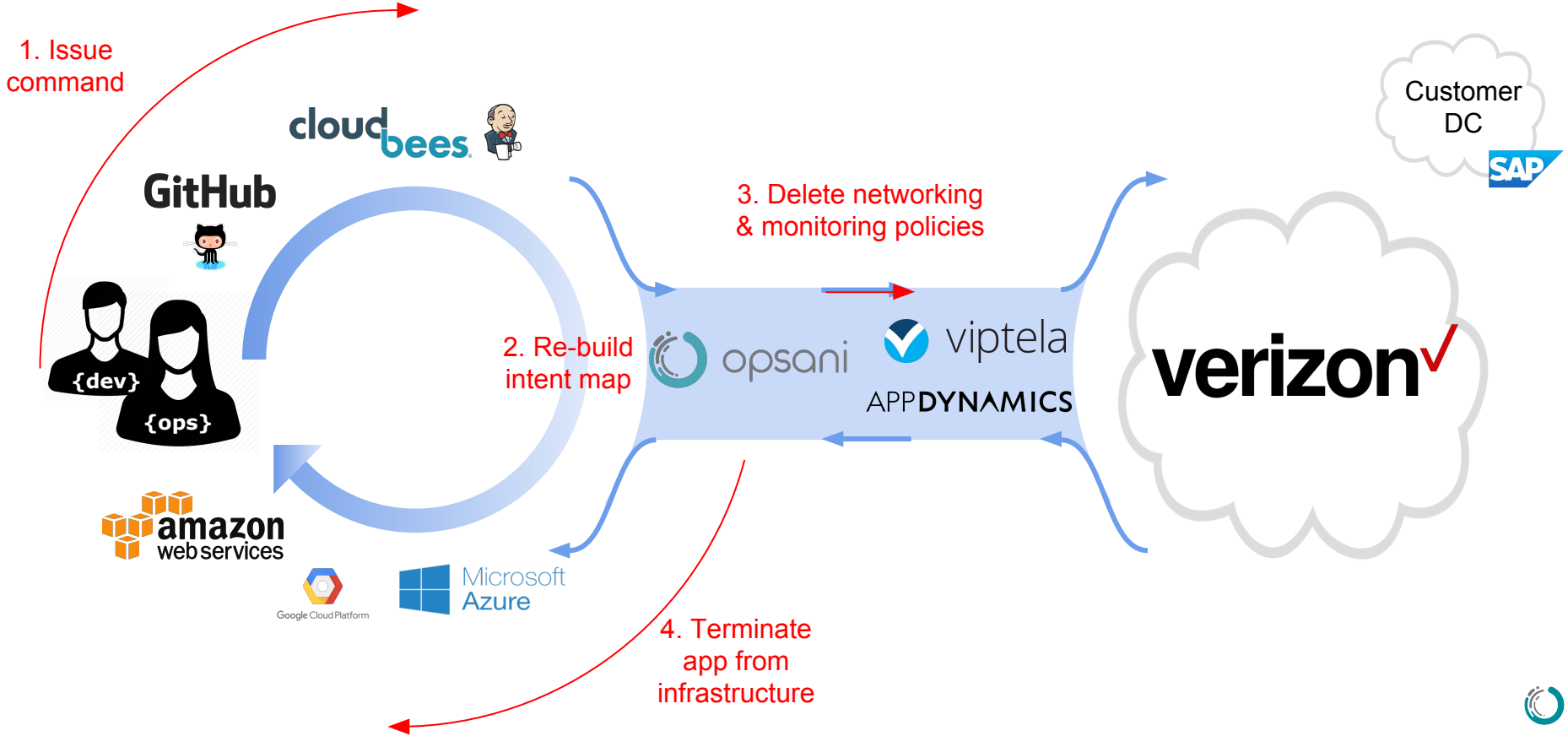
Terminate an app and its network services



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Dev and Ops Driven Use Cases

1. App changes requiring new network services
2. Adding a second geography and network services

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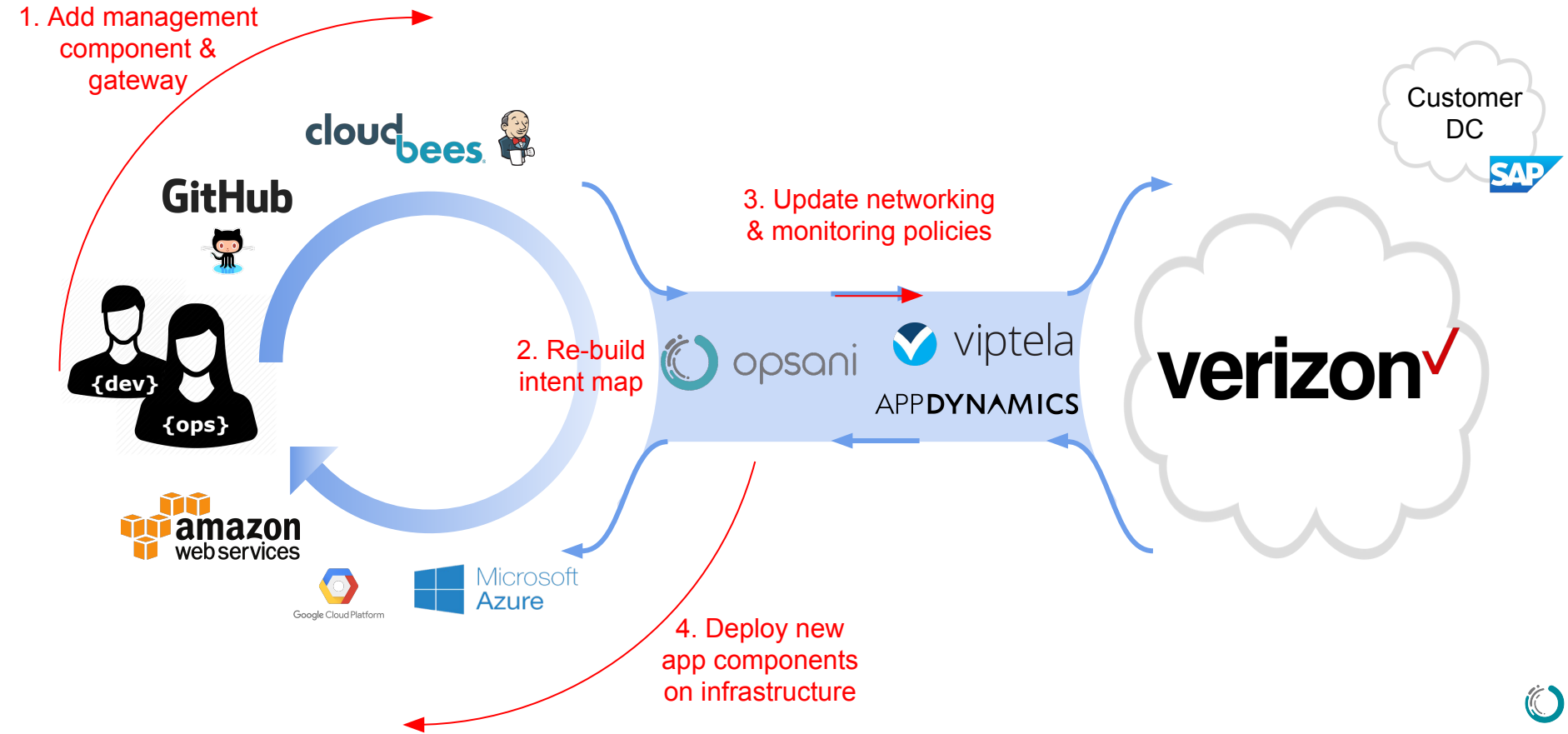
App changes requiring new network services



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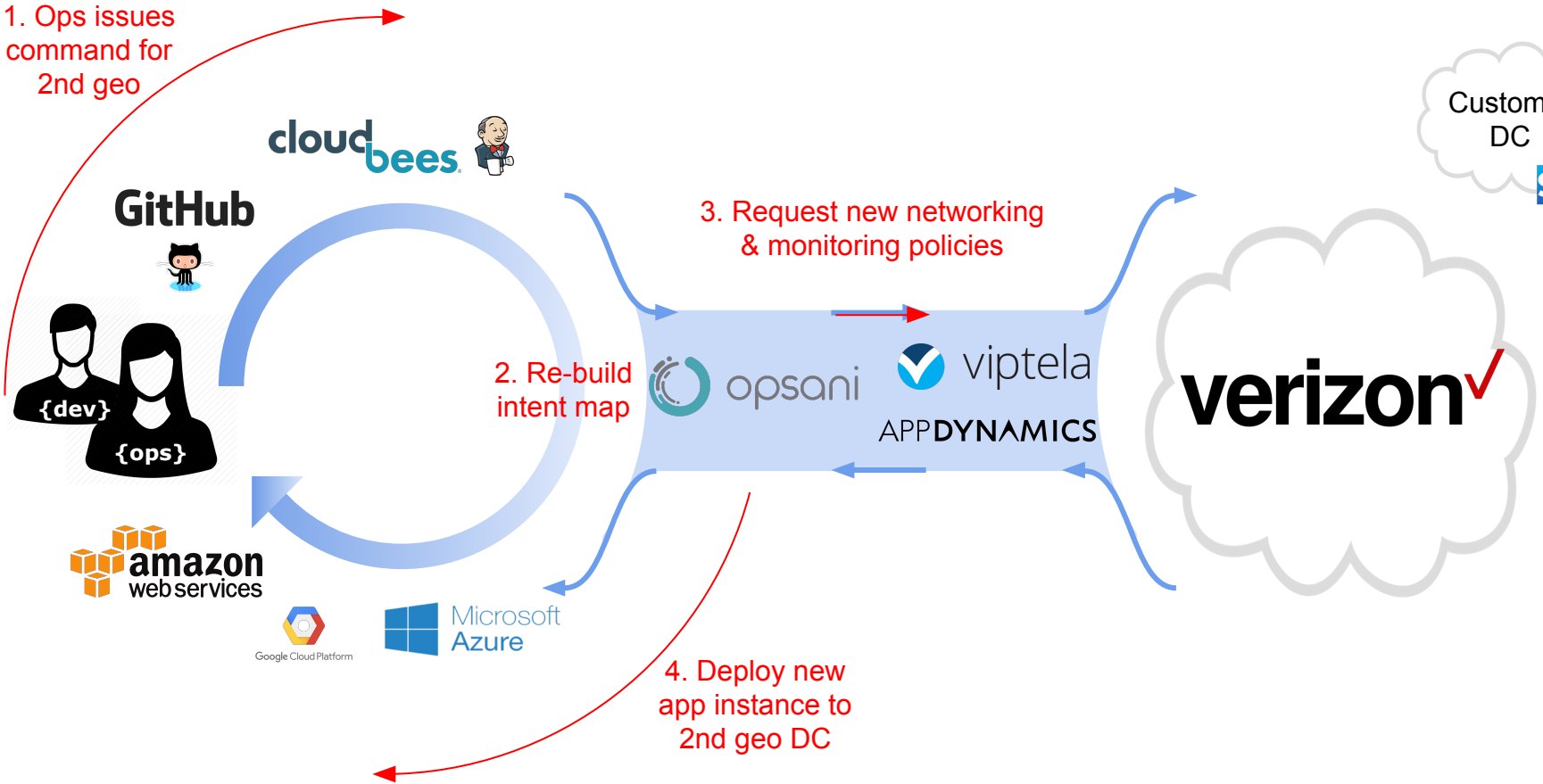
Adding a 2nd geography and network services



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Network Driven Use Cases

1. Geographic auto-scaling
2. Relocating an app due to DC issues
3. Updating SLA policy due to application performance issue

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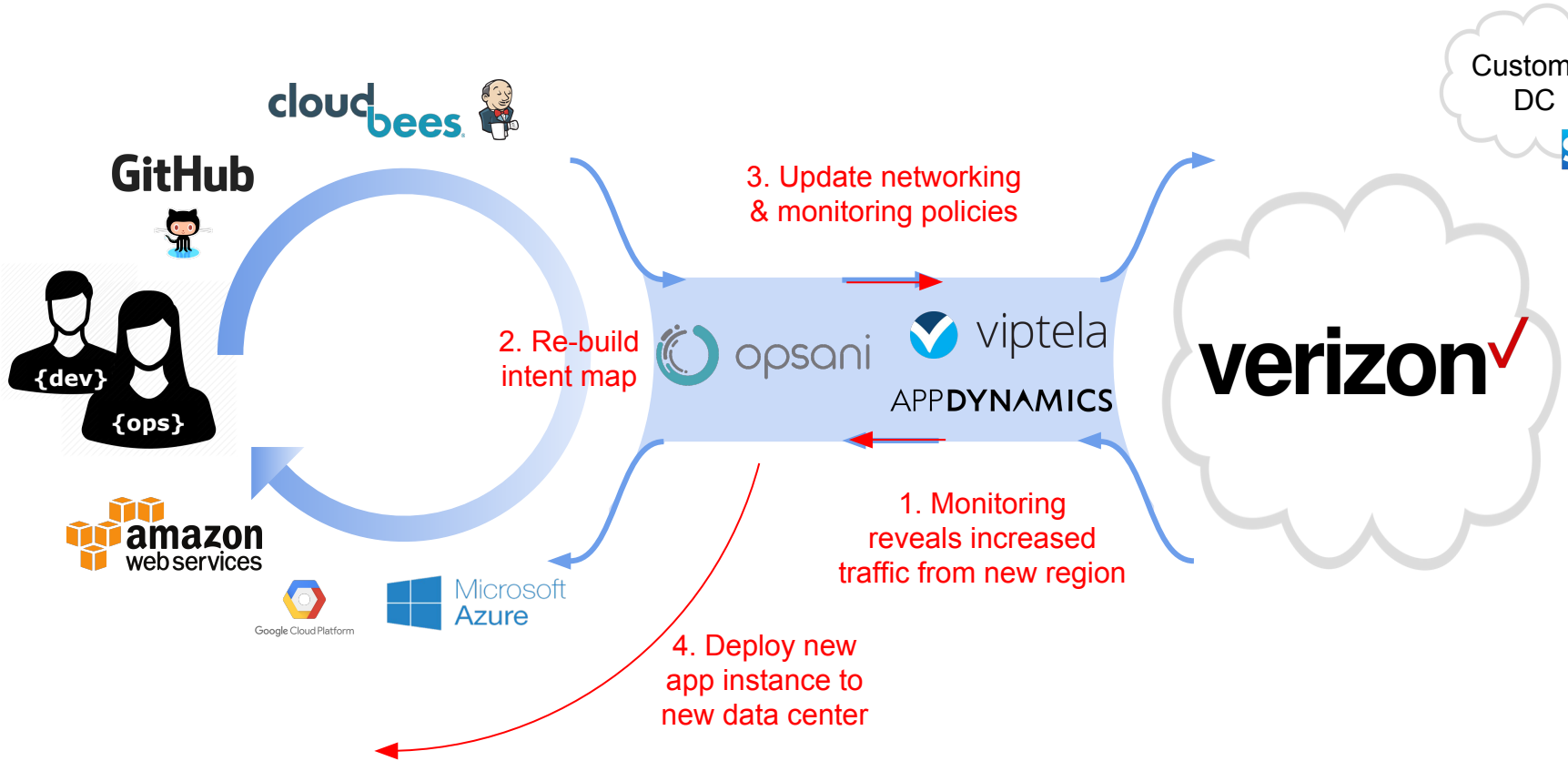
Geographic auto-scaling



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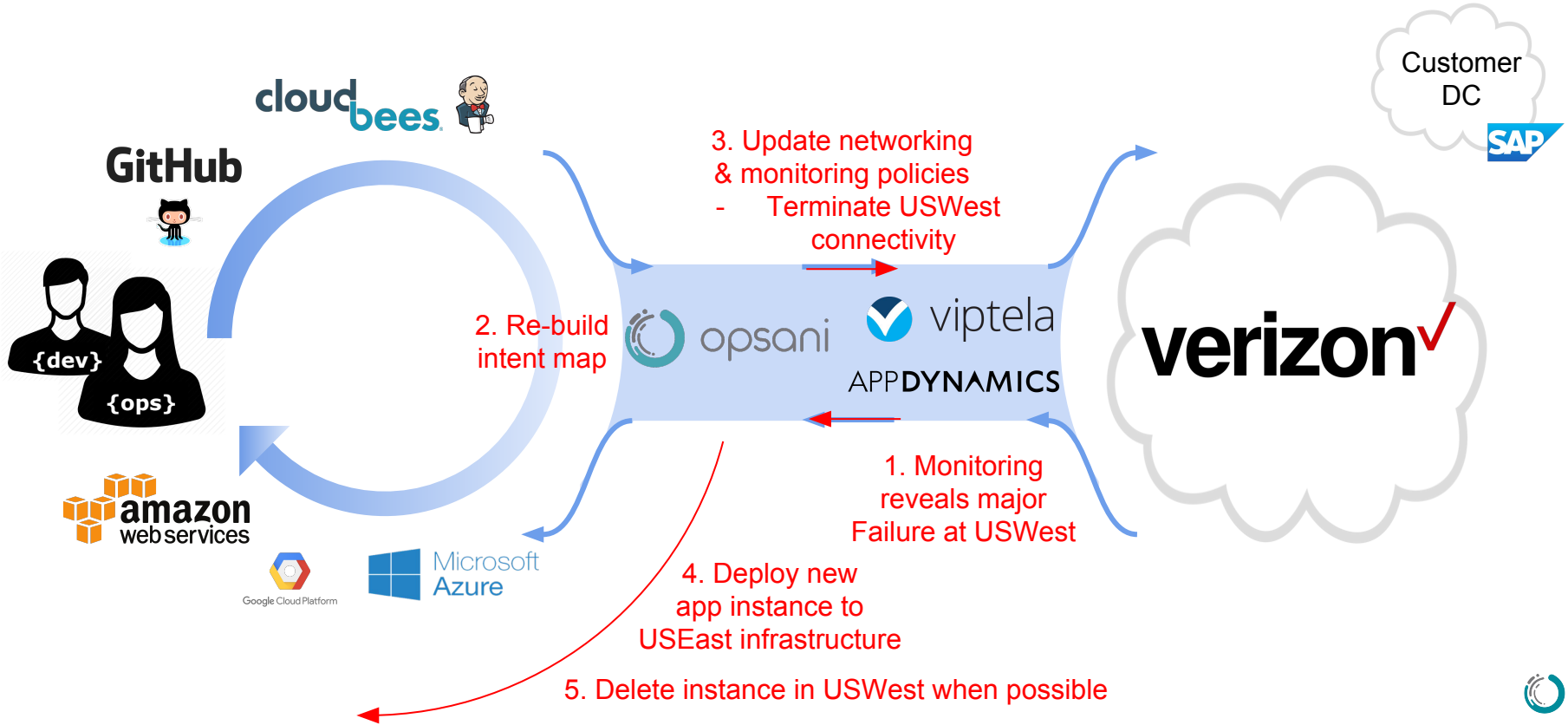
Relocating an app due to DC issues



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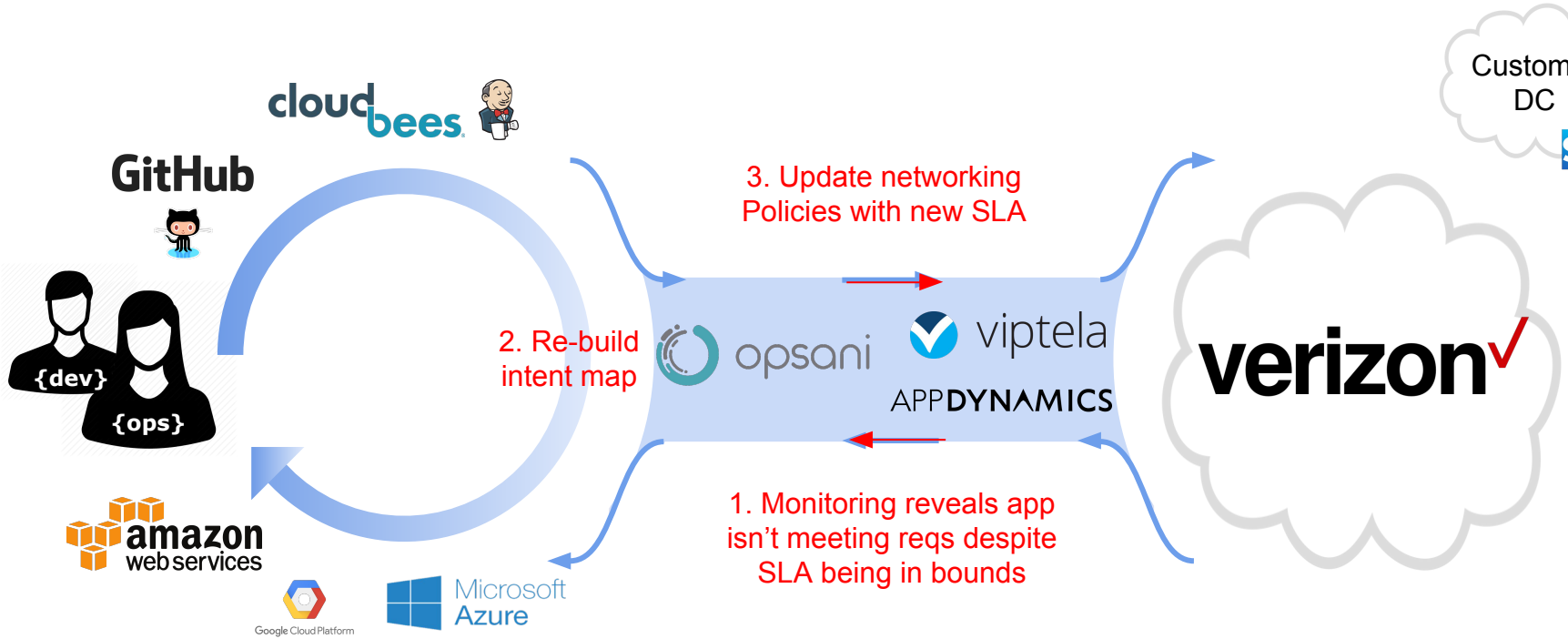
Updating SLA Based on App Monitoring



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Conclusion

1. Enabling applications to drive networking services will transform networking in the same way cloud transformed the data center.

2. The Verizon network will be able to respond to application needs
   a. Providing developers a simple, declarative way to securely control network services

3. Verizon customers will vastly improve agility
   a. Resulting in new sales opportunities
   b. Verizon will become a force in the DevOps movement