**In the Cloud**

**Challenges**

- Environment standardization
- Quality of data and insights
- Technology bottleneck in the application delivery pipeline
- Modernizing while dealing with legacy applications
  - Nearly 80%
  - Moving existing applications to the cloud
  - More than 25%
  - Only 10% are not using modern services.
- Security
  - 77%
- Performance
- Forecasting demand
  - 44%
- Capacity
  - 68%

**Solution Requirements**

- Database development and management
- Monitoring and performance management
- Re-platforming applications
  - Refactoring development of custom applications in these custom apps
  - Transforming monolithic applications to microservices architectures using frameworks
- Development
  - DevOps teams are leaning into cloud-native development
  - Progress is likely impeded by the friction of maintaining existing technology

**Benefits**

- **Custom Apps Are Primed for the Cloud**
- Cloud-Native Development Rates Rising
- Most customers use multiple clouds today
- There is still a large opportunity to move custom apps to the cloud.

**Percent of U.S. Organizations by Number of Custom Applications**

<table>
<thead>
<tr>
<th>Percent of Respondents</th>
<th>Custom Apps</th>
<th>Total Number of Custom Apps</th>
</tr>
</thead>
<tbody>
<tr>
<td>47%</td>
<td>Partner ecosystem, available</td>
<td>etc.</td>
</tr>
<tr>
<td>13%</td>
<td>Public Clouds Are Becoming</td>
<td></td>
</tr>
<tr>
<td>0–4%</td>
<td>Clouds also scale</td>
<td></td>
</tr>
<tr>
<td>5–24%</td>
<td>25–99%</td>
<td>services.</td>
</tr>
<tr>
<td>25–49%</td>
<td>&lt; 500%</td>
<td>High-performance</td>
</tr>
<tr>
<td>50–74%</td>
<td></td>
<td>datacenters or offices</td>
</tr>
<tr>
<td>75–100%</td>
<td></td>
<td>68%</td>
</tr>
</tbody>
</table>

**Message from the Sponsor**

An IDC Infographic, sponsored by Oracle

*Source: DevOps and Accelerated Application Delivery Survey, IDC, January 2021*