Leveraging the Cloud for Law Enforcement

Exploring Operational, Policy, and Technical Opportunities & Challenges

Serving the Leaders of Today, Developing the Leaders of Tomorrow
Number of Full-time Sworn Officers

Agency Size (n=272)
Mean = 216/Median = 36
Respondents

- Chief Executive / Sheriff: 71%
- Command Staff: 11%
- IT Director: 6%
- IT Manager: 8%
- Sworn Officer: 3%
- Command Staff: 11%
- Contractors: 1%

Total: 272 respondents
Over Half Already Use or are Considering Using the Cloud

- Already Using: 16%
- Considering/Planning (next 2 years): 38%
- Not Considering: 46%
Email is the Most Popular Law Enforcement Cloud App today...

- Cloud Email: 17%
- Cloud Storage: 15%
- CJIS Access: 11%
- RMS, Crime Reporting & Analysis, Mapping: 10%
But Agencies Expect to Use a Wider Range of Cloud Apps

Planning or Considering Cloud Implementation in the Next 2 Years

- CJIS Access: 51%
- Cloud Storage: 50%
- RMS, Crime Reporting & Analysis, Mapping: 47%
- Cloud Email: 46%
# Apps Most Suited for Cloud

<table>
<thead>
<tr>
<th>Application</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Backup &amp; Disaster Recovery</td>
<td>69%</td>
</tr>
<tr>
<td>Email</td>
<td>55%</td>
</tr>
<tr>
<td>Crime analysis &amp; mapping tools</td>
<td>51%</td>
</tr>
<tr>
<td>Document collaboration</td>
<td>50%</td>
</tr>
<tr>
<td>Crime reporting</td>
<td>50%</td>
</tr>
<tr>
<td>CJIS/NCIC Access</td>
<td>45%</td>
</tr>
<tr>
<td>State (CCH, DMV, Warrants, Corrections)</td>
<td>39%</td>
</tr>
<tr>
<td>Records Mgmt Systems</td>
<td>39%</td>
</tr>
<tr>
<td>Computer-Aided Dispatch</td>
<td>23%</td>
</tr>
</tbody>
</table>
Why Are They Going Cloud?

- **Save money**: 61%
- **No more software & hardware**: 52%
- **Dynamic provisioning**: 39%
- **Replace old apps**: 34%
- **New features**: 33%
- **Easier for end-users**: 19%
- **More secure**: 16%
- **Better tech support**: 15%
- **Utility-based pricing**: 5%
- **Political mandate**: 5%
Early Adopters Tend to be Larger

Average Number of Sworn Officers

Cloud Email Usage

- Using: 335
- Planning to use: 286
- Considering: 264
- Not considering: 150

Sample Average = 216
Greatest Cloud Security Risk

- Outside attack on cloud infrastructure: 70%
- Outside attack on our infrastructure: 60%
- Cloud provider employees: 43%
- Own employees: 21%
Should Cloud Provider Employees Pass Background Checks?

- Very Important: 74%
- Important: 12%
- Neutral: 4%
- Somewhat Important: 4%
- Not at all Important: 6%
Preferred Cloud Security Standards

- CJIS: 68%
- Local/State: 54%
- Other Federal: 20%
- CSA: 19%
- NIST, FedRAMP: 12%
Who Should Share Law Enforcement Cloud Infrastructure?

- Share only with other LE: 53%
- Share with no one: 42%
- Locate in U.S. only: 37%
- Share only with other Govt.: 27%
- Locate in own city, county or state: 15%
How Familiar Are You With CJIS?

- Very Familiar: 23%
- Somewhat Familiar: 35%
- Aware, but not familiar: 32%
- No Knowledge: 10%
Aware that CJIS Rules Apply Even to Email?

Yes 77%

No 23%
Who Should Control Cloud Encryption Keys?

- Agency Only: 61%
- Agency & Cloud Provider: 21%
- Cloud Provider: 3%
- Unsure: 15%
Okay for Cloud Providers to Mine Law Enforcement Data?

- Cloud provider must abstain from data mining: 89%
- Support IACP "model clauses" for LE cloud procurement: 87%
- CJIS compliance make-or-break for cloud: 71%
- OK for cloud provider to offer ad serving: 4%
- OK for cloud provider to data mine if lower price: 1%