Infrastructure matters

Cheryl Hung, Director of Ecosystem, CNCF
Open Source Summit, San Diego
Graduated

- Kubernetes
- CoreDNS
- envoy
- fluentd
- Linkerd
- Helm
- Rook
- Harbor
- etcd

Incubating

- OPENTRACING
- gRPC
- CNI
- Jaeger
- Software Update Spec
- TUF
- ViteSS
- LINKERD
- HELM
- ROOK
- Harbor
- etcd
- Open Policy Agent
- cri-o
- Key/Value Store

Orchestration
- Monitoring
- Service Proxy
- Distributed Tracing API
- Remote Procedure Call
- Networking API
- Distributed Tracing
- Package Management
- Security
- Messaging
- Service Mesh
- Logging
- Key/Value Store
- Storage
- Registry
- Policy
- Container Runtime
- Container Runtime
- Key/Value Store

469 members!
CNCF End User Community

Plus 14 non-public members
Q: What percentage of your containers are running in production?

- Fall 2018
- Spring 2019

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Fall 2018</th>
<th>Spring 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 10%</td>
<td>52%</td>
<td>39%</td>
</tr>
<tr>
<td>11-25%</td>
<td>23%</td>
<td>19%</td>
</tr>
<tr>
<td>26-50%</td>
<td>12%</td>
<td>20%</td>
</tr>
<tr>
<td>More than 50%</td>
<td>13%</td>
<td>22%</td>
</tr>
</tbody>
</table>

stackrox.com/kubernetes-adoption-and-security-trends-and-market-share-for-container
Barriers to cloud native adoption

• Integration with ecosystem / clouds
• Upgrades
• Data location
• Security, identity, compliance
• Cost management
Climate change
CPU utilization improved 2-3x

Hundreds of VMs down to 8 machines
Global internet traffic—yesterday, today, and tomorrow

75 terabytes per second

Theatlas.com/charts/BJ-6iePi

Data: Cisco estimates
Thank you

oicheryl.com