# Why the Increased Use of
## Open Source Software?

Microsoft
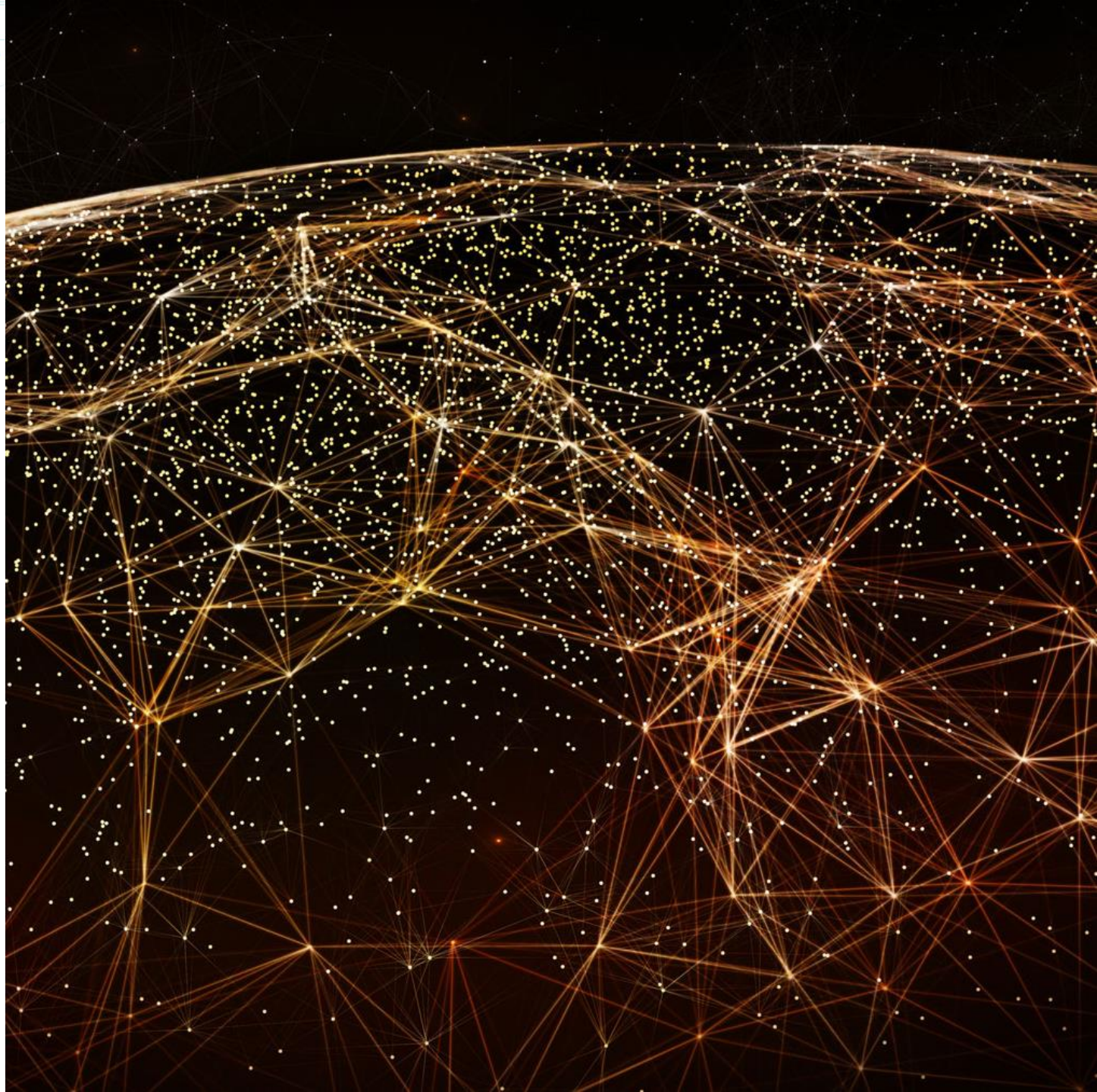
# Open Source Software Growth

## Top open source projects

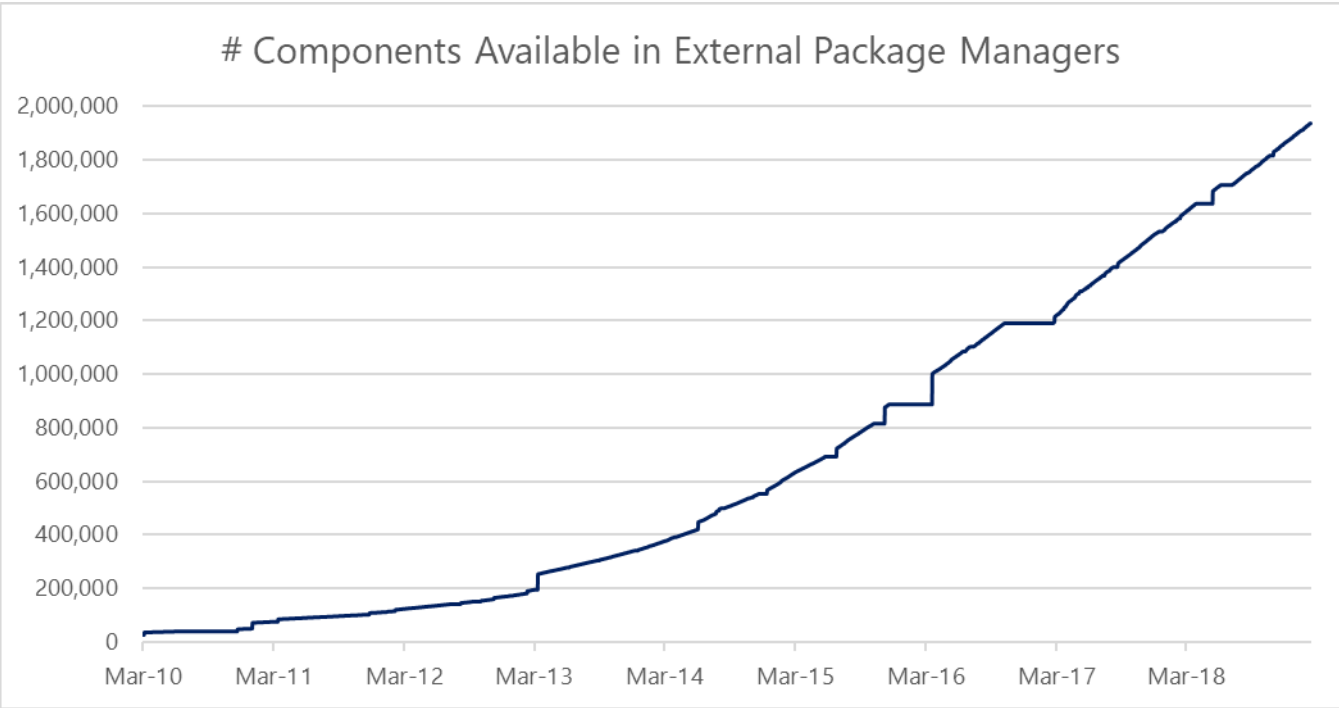VS Code, React, and Tensorflow once again top our list of open source projects by contributor count. New to the list are projects that manage containerized applications, share Azure documentation, and consolidate TypeScript type definitions: Kubernetes, Azure Docs, and DefinitelyTyped. ✳

| | | Contributors |
|---|---|---|
| 1 | Microsoft/vscode | 19к |
| 2 | facebook/react-native | 10к |
| 3 | tensorflow/tensorflow | 9.3к |
| 4 | angular/angular-cli | 8.8к |
| 5 | MicrosoftDocs/azure-docs | 7.8к |
| 6 | angular/angular | 7.6к |
| 7 | ansible/ansible | 7.5к |
| 8 | kubernetes/kubernetes | 6.5к |
| 9 | npm/npm | 6.1к |
| 10 | DefinitelyTyped/DefinitelyTyped | 6.0к |

https://octoverse.github.com

### # Components Available in External Package Managers

| | |
|---|---|
| 2,000,000 | |
| 1,800,000 | |
| 1,600,000 | |
| 1,400,000 | |
| 1,200,000 | |
| 1,000,000 | |
| 800,000 | |
| 600,000 | |
| 400,000 | |
| 200,000 | |
| 0 | |

Mar-10  Mar-11  Mar-12  Mar-13  Mar-14  Mar-15  Mar-16  Mar-17  Mar-18

https://modulecounts.com

Microsoft

**3**

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# What is the security risk?



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# Cybersecurity: in the News, in the Boardroom

**$8** trillion
Cost of cybercrime to the global economy by 2022

**750+%**
Growth in # of ransomware families in 2016

**99** days
Median # of days between infiltration and detection
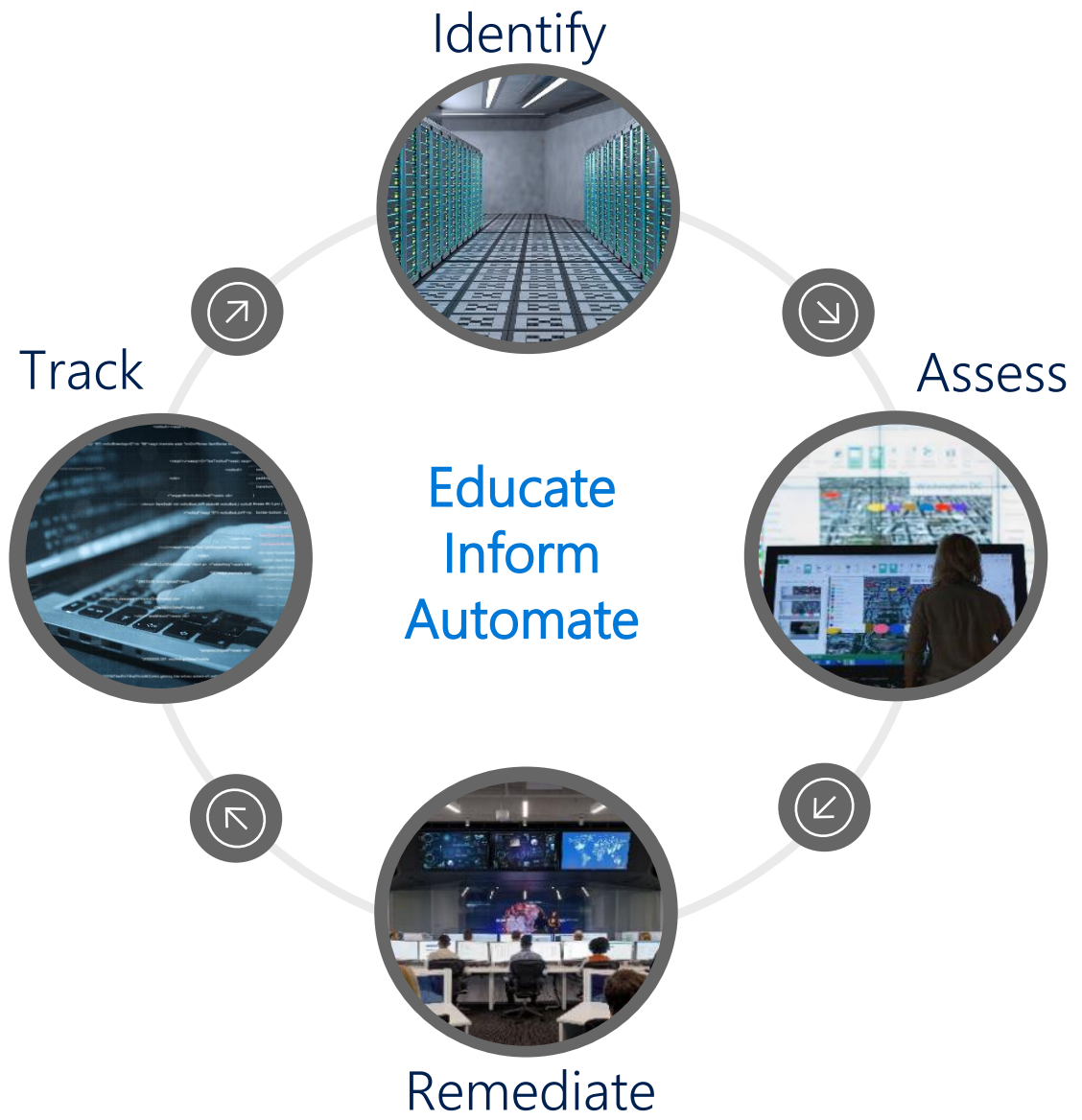
**$4**M
Average cost of a data breach in 2017

**88%**
Of companies concerned about cyberattacks in 2017

# Are there **Best Practices** to consider?

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# Steps for Secure Use of OSS



Identify

Assess

Remediate

Track

Educate
Inform
Automate

# Apply What You Have Learned Today

- Immediate:
  - Determine if your cross-company policies, processes, and practices address open source
  - Schedule time to educate senior leadership on risk exposure from OSS usage

- Within six months you should:
  - Establish a plan to identify, track, and remediate OSS in use in your organization
  - Ensure OSS is secure
  - Update security policies as necessary to address any gaps
  - Evaluate and leverage tools to automate discovery
  - Establish a Training & Awareness Plan:  Executive Awareness, Engineering & Compliance Practices

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## Thank You!

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