Webhooks

Jon Hartman, Consulting Sales Engineer
@techdojo

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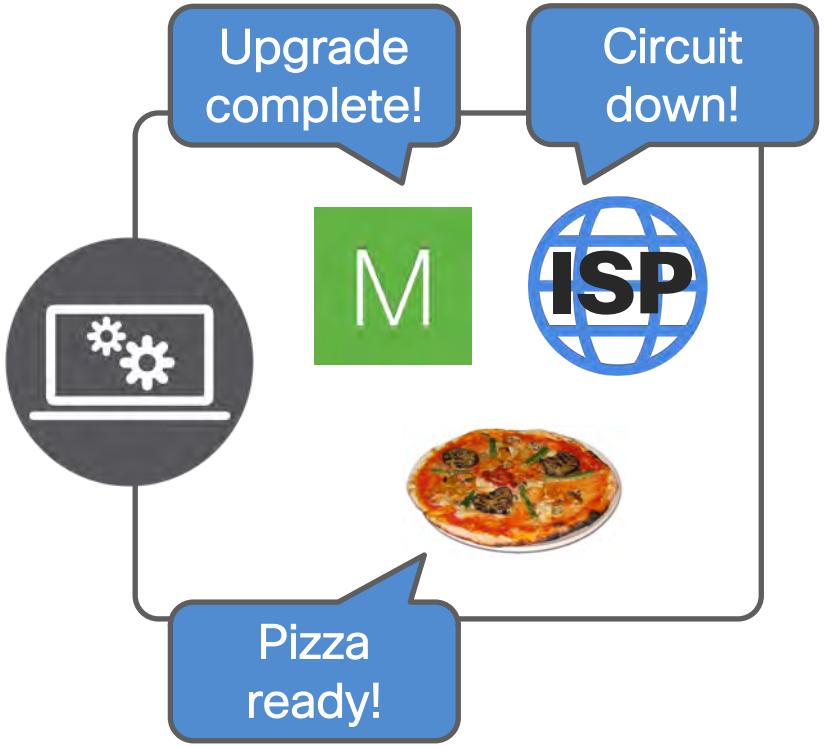
A Request-driven World

Create
Read
Update
Delete



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A Request-driven World

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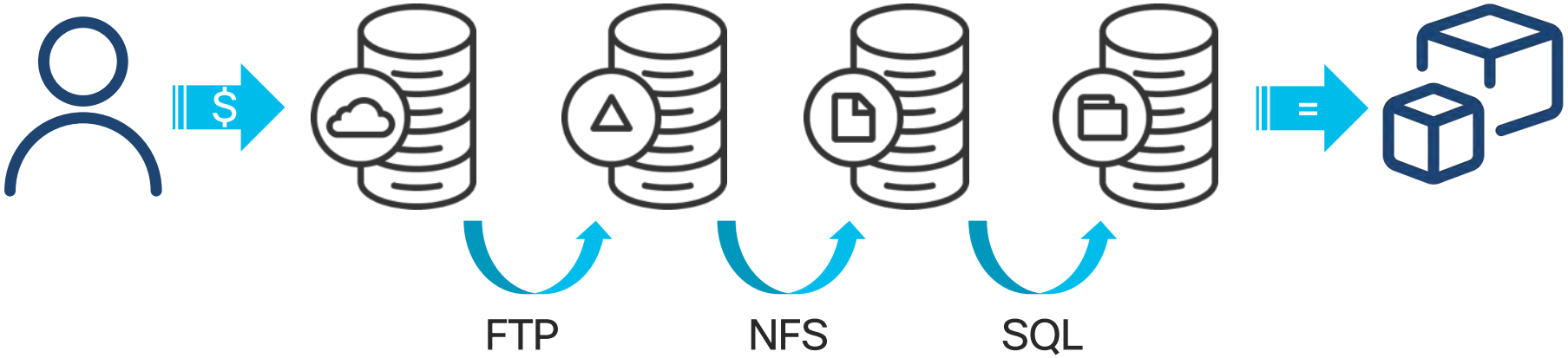
A Request-driven World



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A Request-driven World

- Expensive
- Polling interval balance
- Information frequently not of value
- Remote resource contention

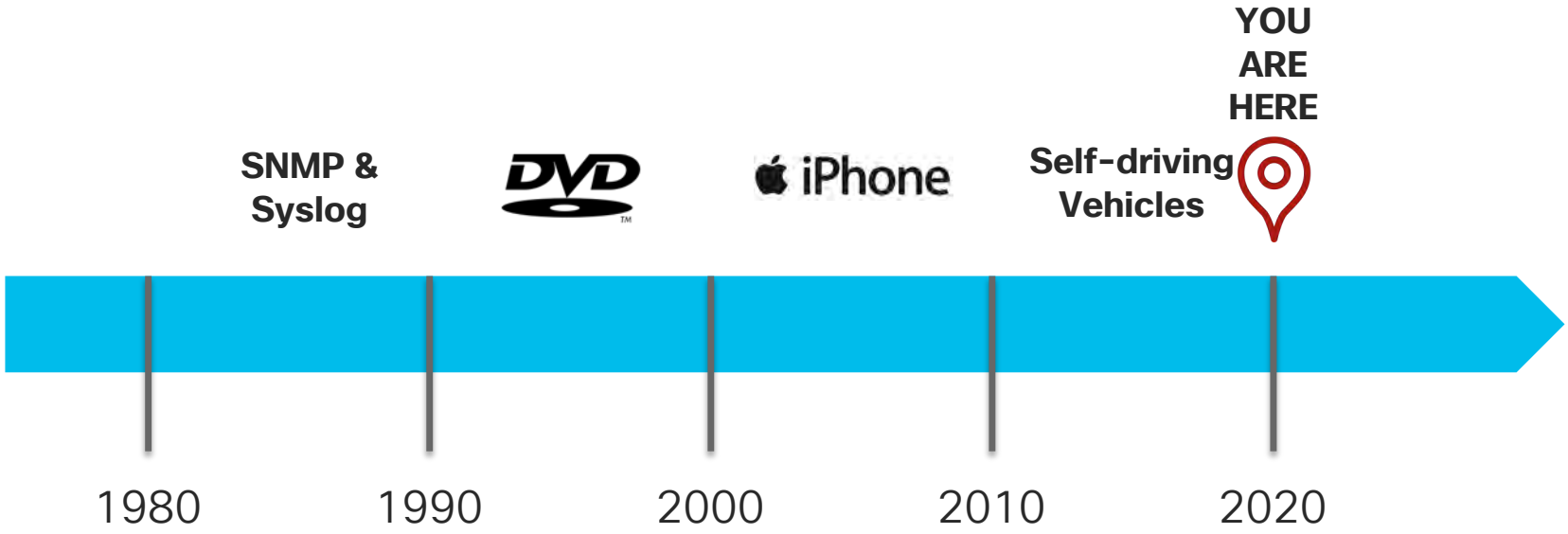
A Request-driven World

- Resources only consumed when necessary
- Can take instant action

An Event-driven World

- Resources only consumed when necessary
- Can take instant action

An Event-driven World



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Webhooks Building Blocks

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Webhooks Building Blocks

“You merely adopted the cloud. I was born in it, molded by it.”

--Miles Meraki, The Cloud-Managed Infrastructure Rises

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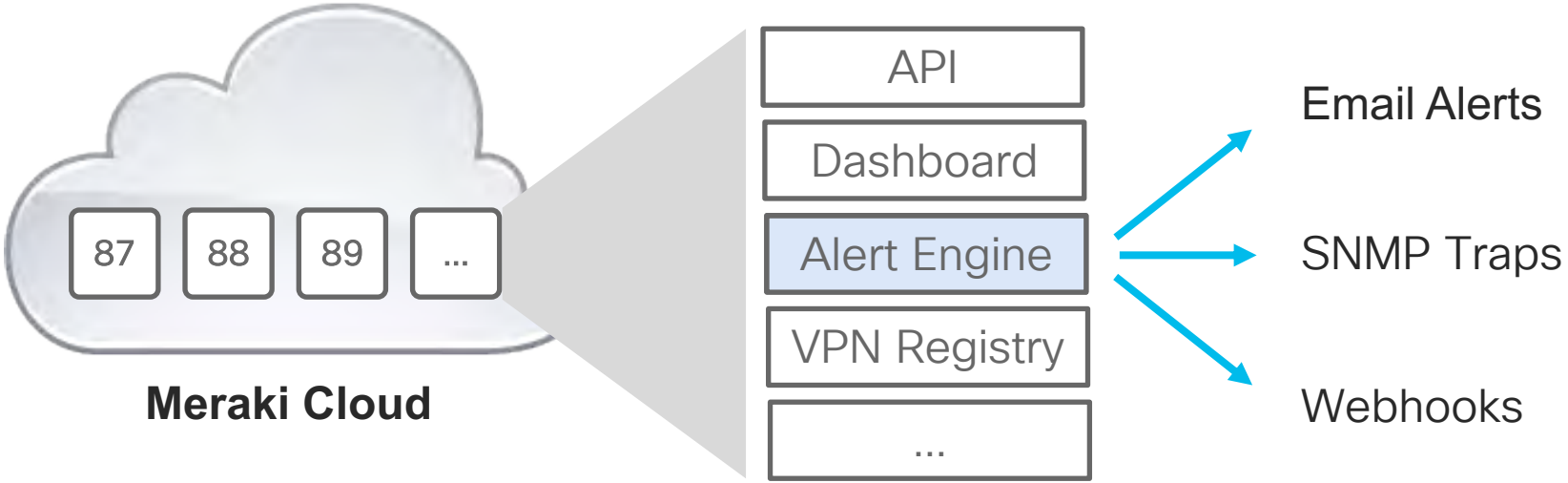
Webhooks Building Blocks



More information available at: https://meraki.cisco.com/trust

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Webhooks Examples

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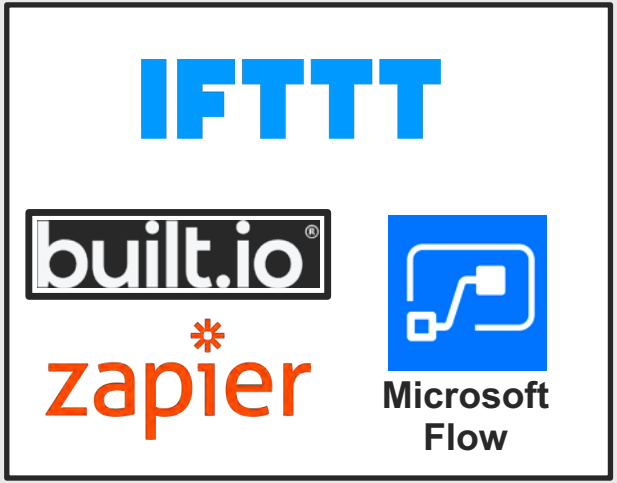
Webhooks Examples

System & Application Monitoring

Service Management

Workflow & Automation



Collaboration

Social Media

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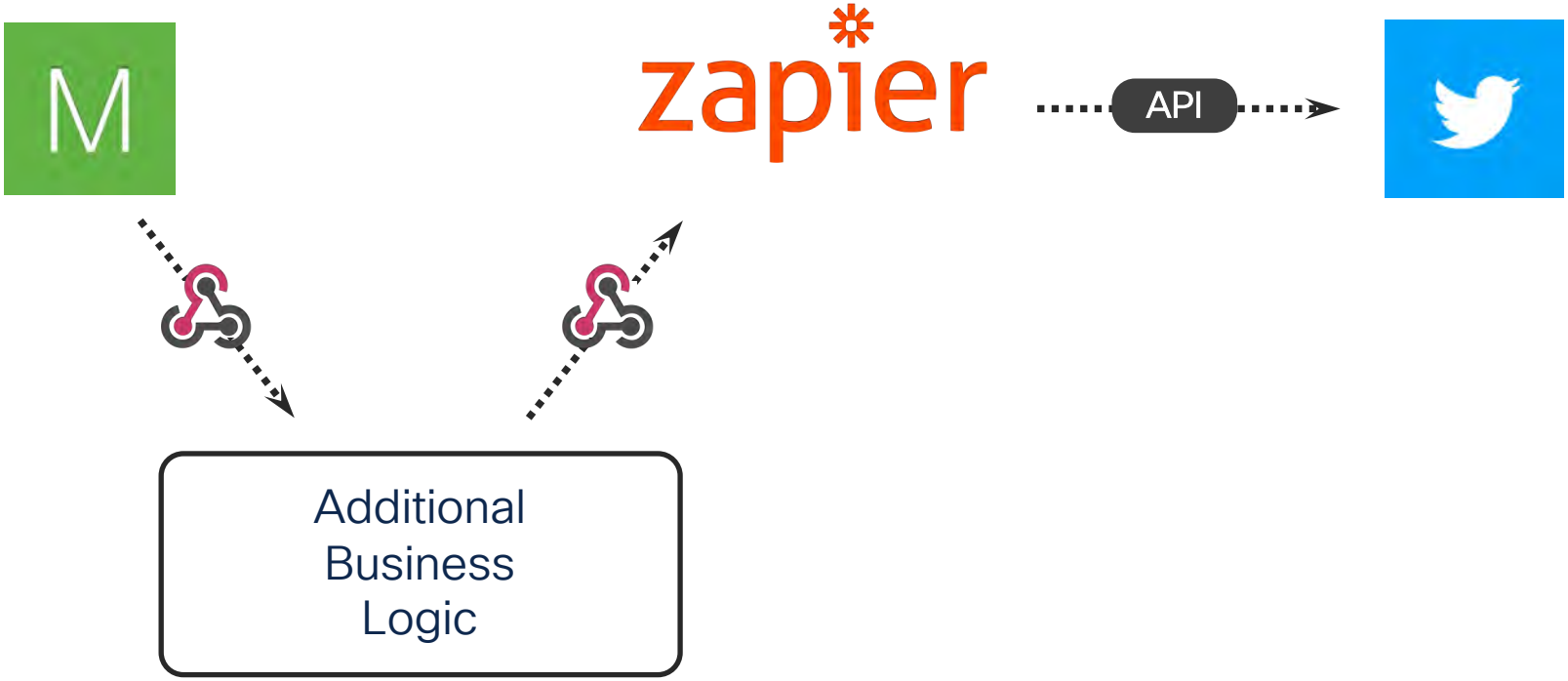
Demo

Webhooks Examples



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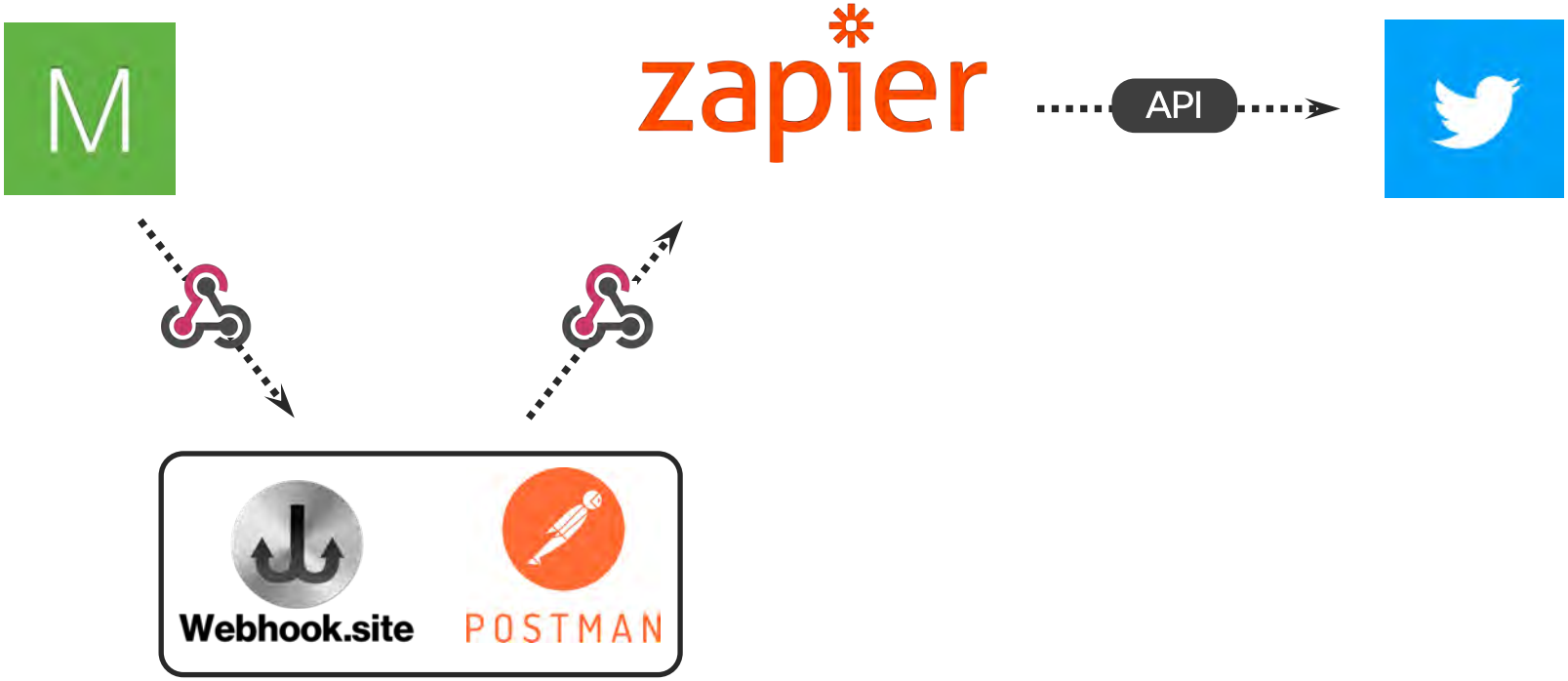
Webhooks Examples



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Summary

Webhooks Summary

- Event-driven / real-time
- Encrypted - TLS
- Authenticated - secret
- Reliably-transported & lightweight - HTTP
- Machine-friendly formatting - JSON

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Best Practices

- Use HTTPS & secret, but consider IP whitelists or firewall rules

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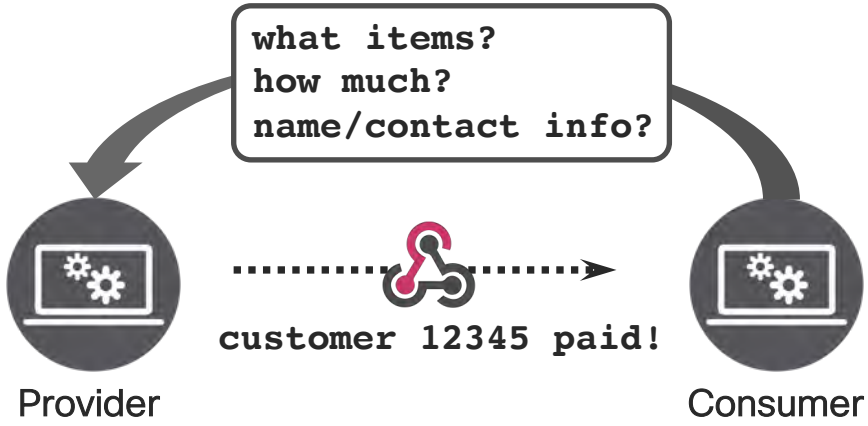
Best Practices

- Use HTTPS & secret, but consider IP whitelists or firewall rules
- Include as much relevant data as possible



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Best Practices

- Use HTTPS & secret, but consider IP whitelists or firewall rules
- Include as much relevant data as possible
- Separate storing from processing

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Best Practices

- Use HTTPS & secret, but consider IP whitelists or firewall rules
- Include as much relevant data as possible
- Separate storing from processing
- Correlate webhooks event with API endpoints

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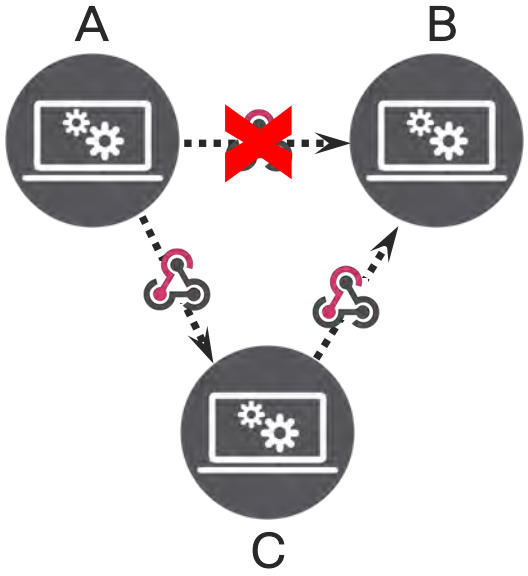
Best Practices

- Use HTTPS & secret, but consider IP whitelists or firewall rules
- Include as much relevant data as possible
- Separate storing from processing
- Correlate webhooks event with API endpoints
- Troubleshoot via triangulation



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Thank you

Possibilities

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