# Palantir in your Hands! WEF

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#### After This Session

- Set up
  - custom Windows Event Forwarding environment
  - Azure Log Analytics workspace
- Send specific logs to Azure LA
- Query data using KQL
- Consume data using Azure Dashboards and PowerBI



## Agenda

- Windows Event Forwarding
  - Theory
  - Problem and Solution
- Find-Events, WEFTools and Azure magic
- Demo Time
  - Prepare, Deploy, Have Fun





## Agenda

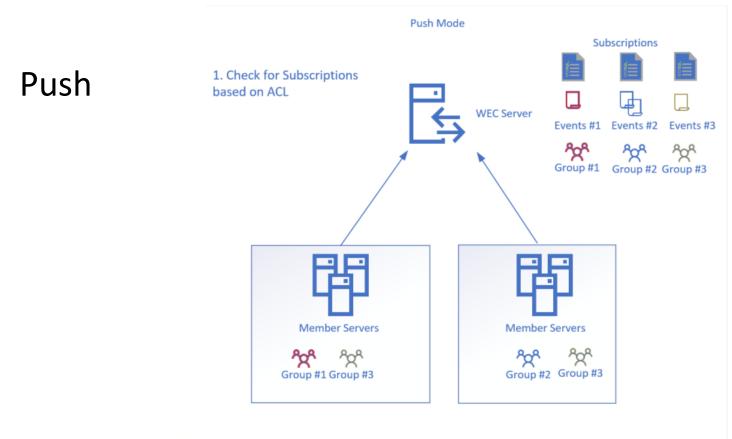




Log Forwarding – built in Windows, encrypted using Kerberos



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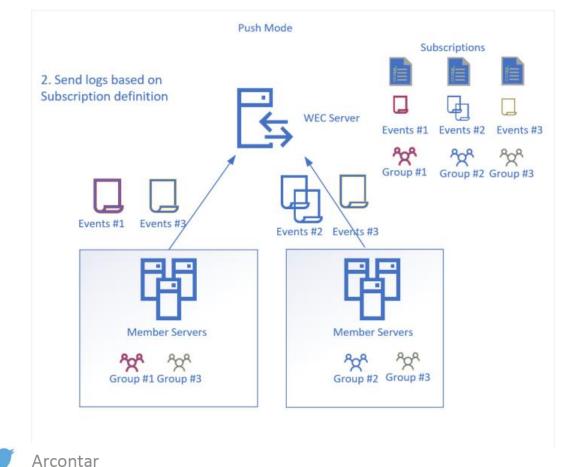






Log Forwarding – built in Windows, encrypted using Kerberos

Push

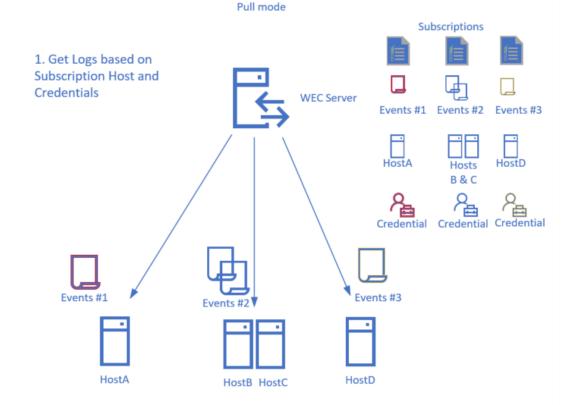






Log Forwarding – built in Windows, encrypted using Kerberos







Log Forwarding – built in Windows

Push and Pull

• Full docs: <a href="https://docs.microsoft.com/en-us/windows/security/threat-protection/use-windows-event-forwarding-to-assist-in-intrusion-detection">https://docs.microsoft.com/en-us/windows/security/threat-protection/use-windows-event-forwarding-to-assist-in-intrusion-detection</a>





- Events forwarded from DCs to a console (manual)
- Jessica's Payne 'Host Based Firewall' to 'WEFFLES'

https://channel9.msdn.com/Events/Ignite/New-Zealand-2016/M377 https://channel9.msdn.com/Events/Ignite/Australia-2015/INF327 https://blogs.technet.microsoft.com/jepayne/2017/12/08/weffles/

- 'Monitoring what matters'

https://blogs.technet.microsoft.com/jepayne/2015/11/23/monitoring-what-matters-windows-event-forwarding-for-everyone-even-if-you-already-have-a-siem/

Run this within minutes and 'hack your way up'





- ELK and winlogbeat a lot of 🔀
- OMS with agents a lot of 🖏
- OMS with WEC a lot of i and 🖏



- Palantir
  - multiple event forwarding rules and logs
  - easily managed subscriptions and AD groups
  - code-deployable

https://github.com/palantir/windows-event-forwarding

- WSLab
  - sample scripts to KKND

https://github.com/Microsoft/WSLab

- LME – Logging Made Easy

https://github.com/ukncsc/lme

- Sauron

https://blogs.technet.microsoft.com/russellt/2017/05/09/project-sauron-introduction/





## Pros from WEF – by Jessica Payne

- Free
- built in Windows (Servers AND Desktops)
- Configured via GPO
- Can (and should be) targeted to specific events
- Native evtx (xml) log format
- Uses WinRM (Kerberos) to prevent man in the middle
- "Push" log mode less attack surface
- IT admins control their own logging destiny





#### More Pros from Palantir

- Free

Log file per group of events - Customized Event Channel dll

- Pre-configured xml subscriptions

Subscriptions targeted by Active Directory groups membership



#### Some Cons:

- Searching through Event log is slow

Bigger team = more people with access to logs

A lot of storage needed == slower searches

Can be tampered with



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  Find-Events from PSWinReportingV2 (and PSEventViewer)
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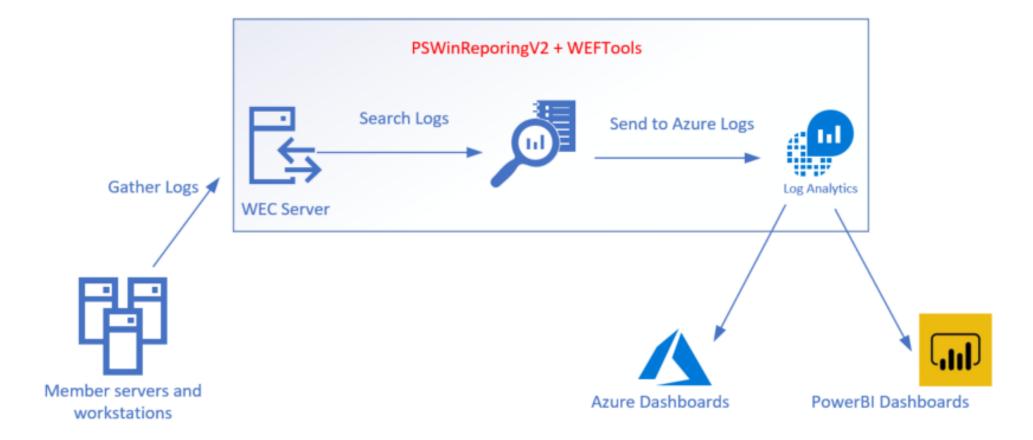
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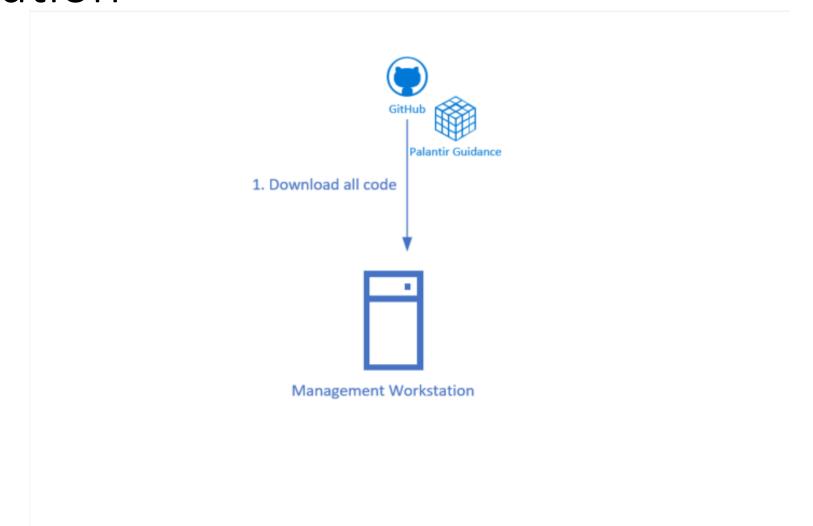
WEFTools and Azure Log Analytics + PowerBI



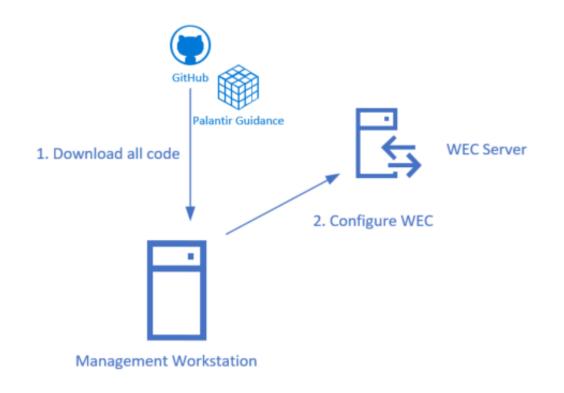




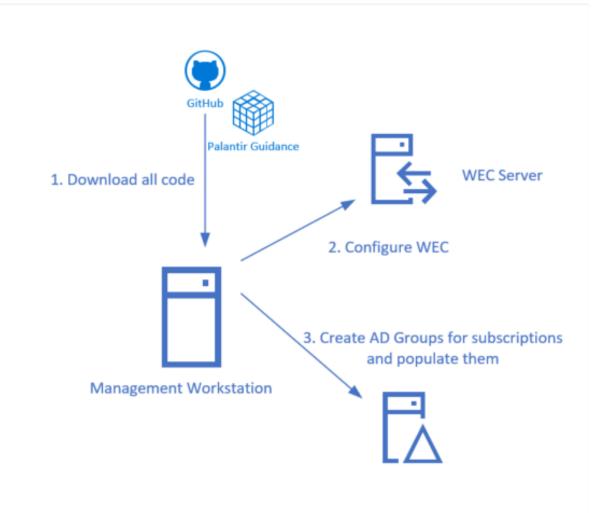






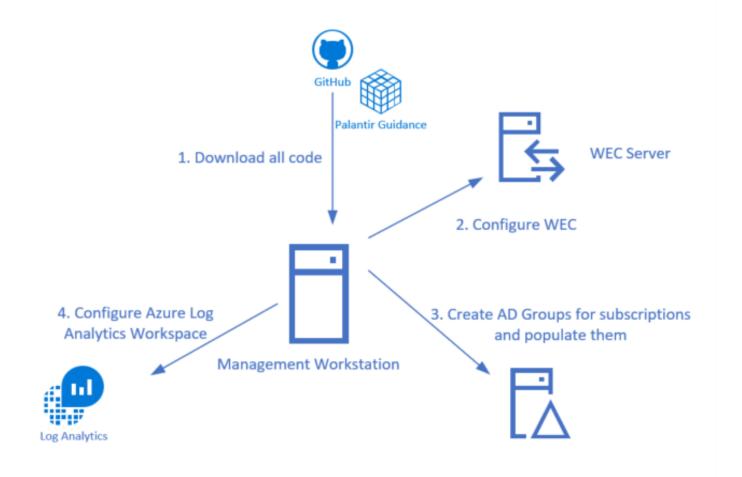




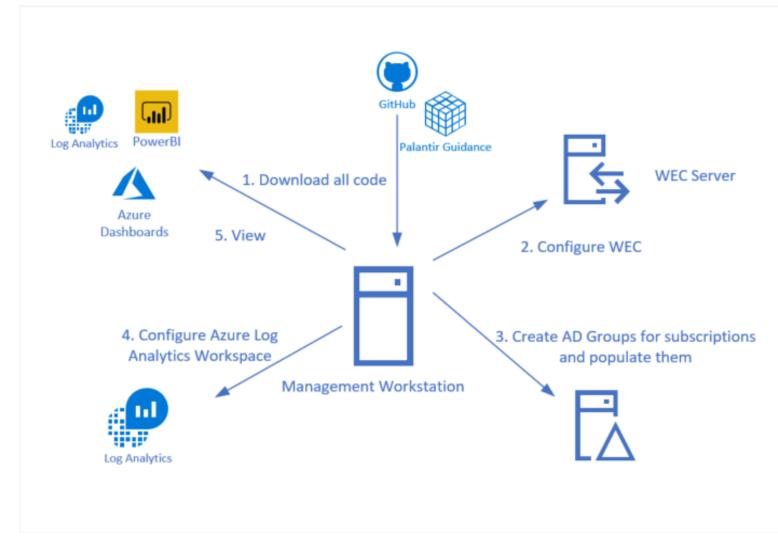














## Demo

Let's have some fun





#### Fun fact

Demo Lab – built 3 times same error:

- Group Policy set up correctly
- Replication working as expected
- GPUpdate and GPResult showing OK
- auditpol /get /category:\* returns 'No Auditing'

Fix?

-Remove audit.csv from:

\\domainname\SYSVOL\domain\Policies\{GPOGUID}\Machine\microsoft\windows nt\Audit

- Configure GPO again!





## Summary

Collect your Events (FREE)
 WEF + Palantir's Guidance



Store and Analyze (FREE or dirt cheap)
 Azure Log Analytics, KQL, Azure Dashboards, Power BI





## Questions?





## about\_Speaker



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