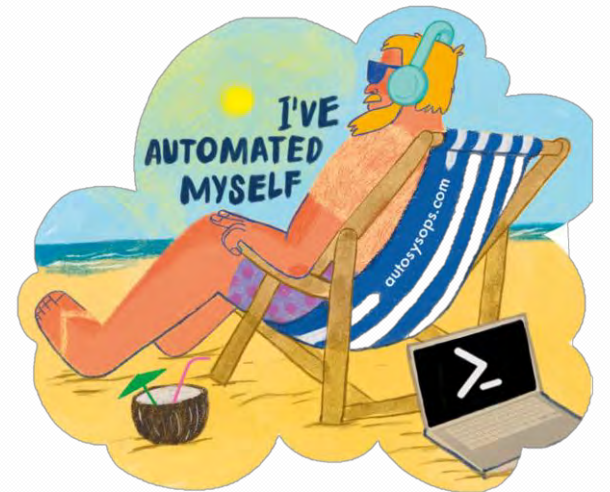


Secure your cloud automations

Leo Visser



Who am I



AUTO-SYS-OPS

- Consultant @ OGD
 - AI, Automation, Cloud
- DuPSUG Organizer
- Azure MVP (PowerShell)



Why cloud automations?



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Shift-Left tasks

Why cloud automations?






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-  Shift-Left tasks
-  Perform maintenance

Why cloud automations?





AUTO-SYS-OPS



-  Shift-Left tasks
-  Perform maintenance
-  Consumption based billing

Why cloud automations?



AUTO-SYS-OPS

-  Shift-Left tasks
-  Perform maintenance

-  Consumption based billing
-  Integration with platform



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Case 1 – Scheduled Script



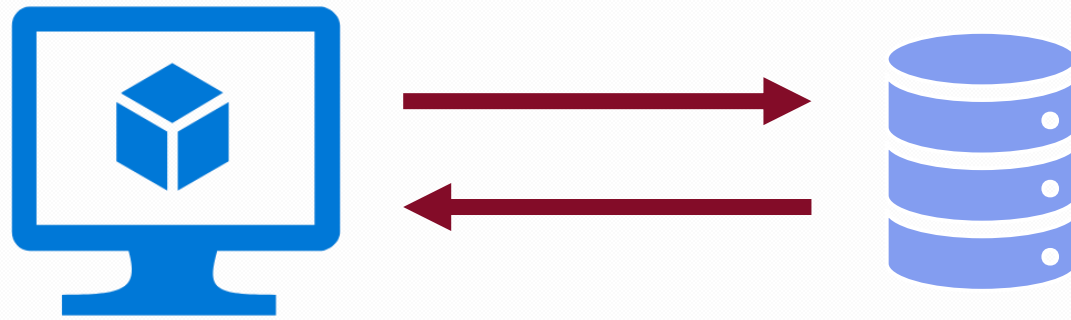
Blog: www.autosysops.com

Socials: @AutoSysOps

Case 1 – Scheduled Script



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Demo

Scheduled Script

Case 1 – Scheduled Script



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✓ Can use managed identity (on VM)

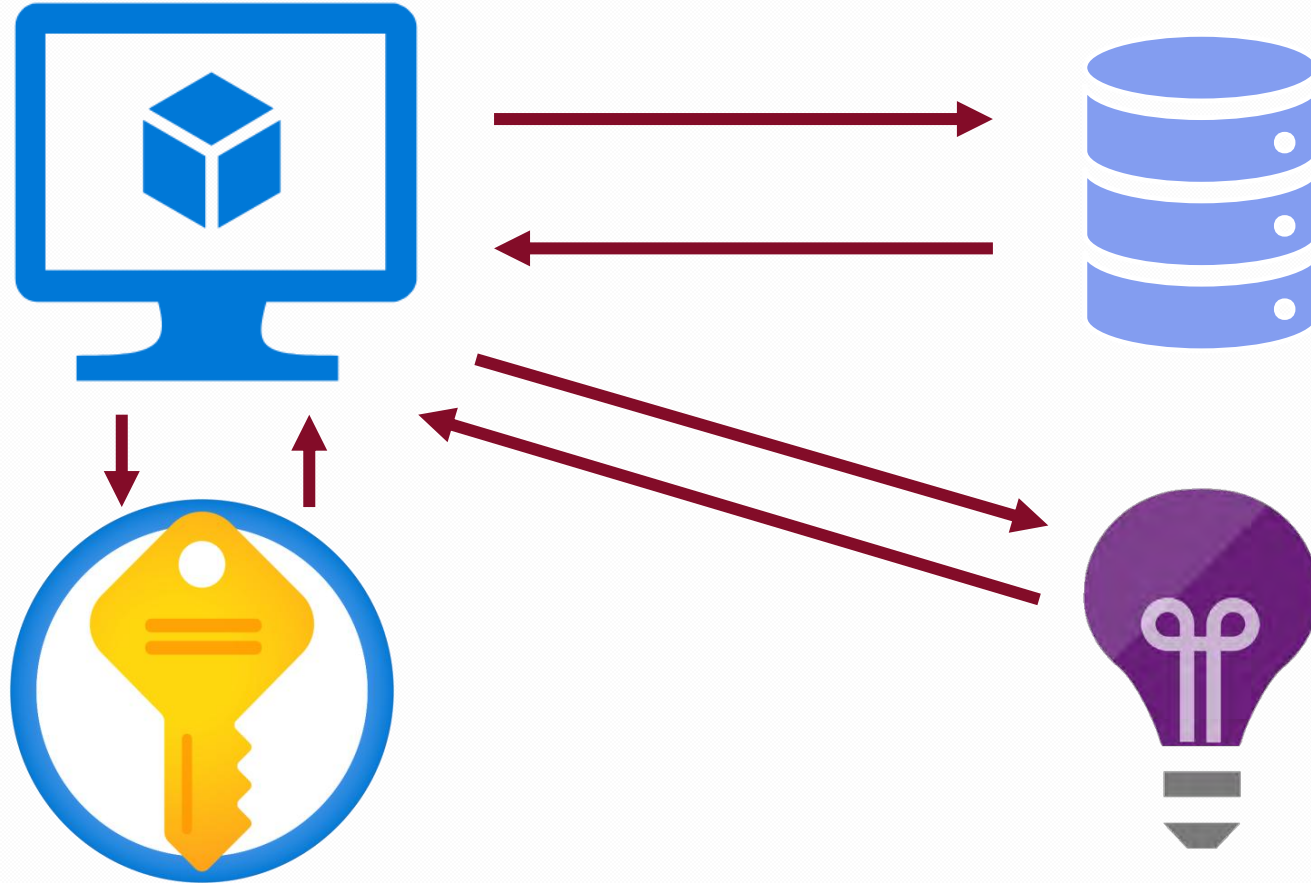
✗ No logging

✗ What if script fails?

Case 1 – Scheduled Script



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Variables:
Azure
Key Vault

Logging:
Application
Insights



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Demo Scheduled Script Improved



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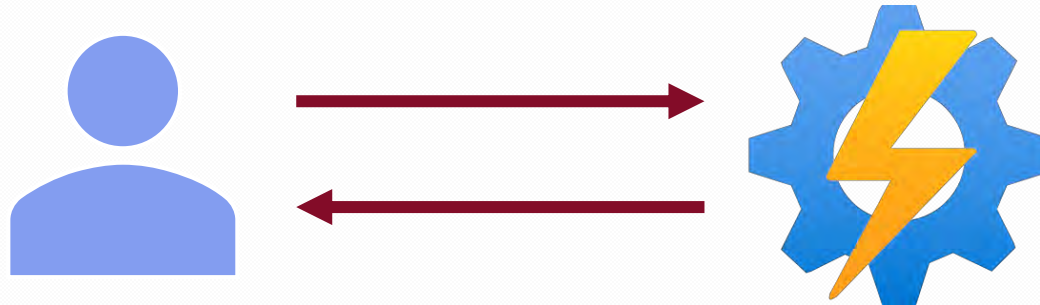
Case 2 – Azure Automation Account



Case 2 – Azure Automation Account



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Demo

Automation Account

Case 2 – Azure Automation Account



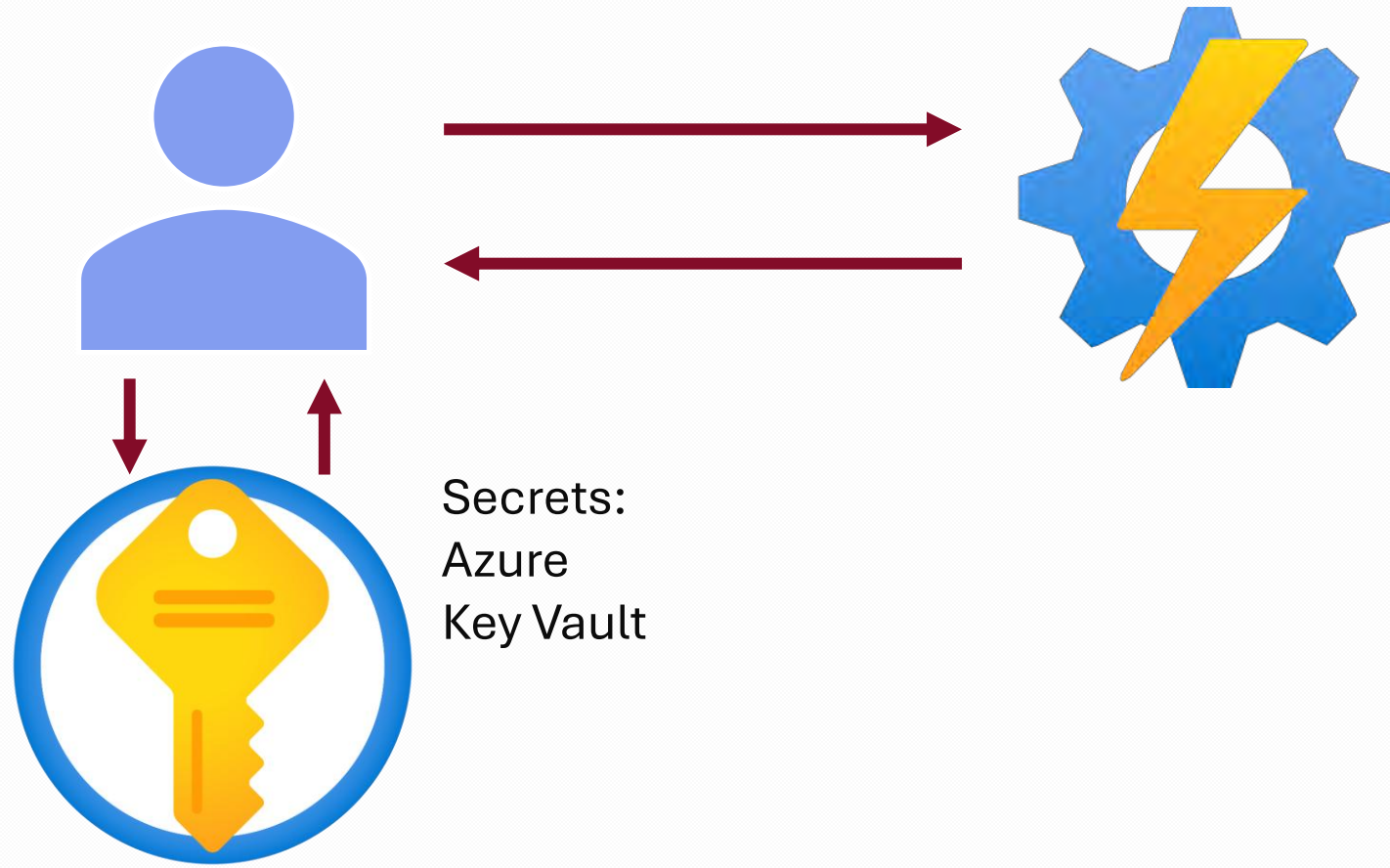
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- ✓ Can use managed identity
- ✓ Logging (for only 90 days)
- ✗ Secrets exposed in code

Case 2 – Azure Automation Account



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Demo Automation Account Improved



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Case 3 – Azure Function



Case 3 – Azure Function



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AUTO-SYS-OPS

Demo

Azure Function

Case 3 – Azure Function



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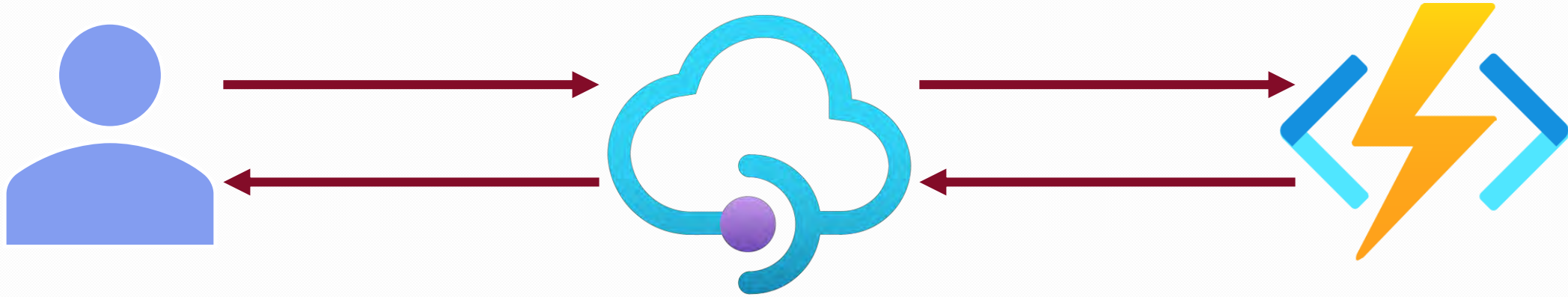
- ✓ Can use managed identity
- ✓ Logging
- ✓ Control over API key
- ✓ Starts instantly

- ✗ No auth via user account

Case 3 – Azure Function



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Demo Azure Function Improved

Conclusion



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- 🔍 No solution is perfect
- 🔍 Remember that automation can fail
- 🔍 Use multiple system to achieve your goal



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Questions?

