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Transforming IT Operations:

Discover the power of Desired State Monitoring and Resource Utilization

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Agenda

- Desired state configuration demo
- Solution architecture
- **Why** did we build this?
- **How** did we build this?
- Q&A

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Desired state configuration

Demo

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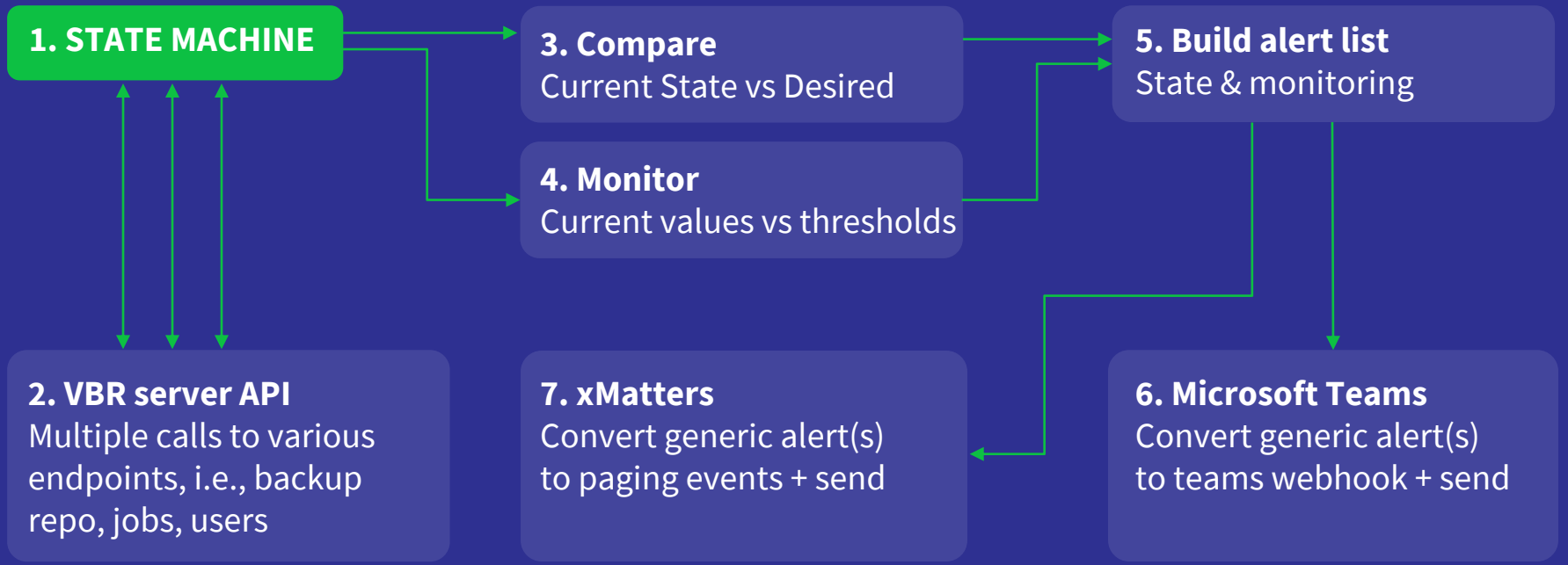
Solution architecture

Architecture



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Potential improvements?

- **Automated remediation.**
- **More coverage:**
  - Build out desired state for all/more properties.
  - Monitor advanced scenarios, i.e., conditional based on multiple states.
  - Expand to other products, backup for Microsoft 365, etc.
- **Nice to have's:**
  - Environment profiles, different states/monitoring for edge vs. data center.
  - Web interface for management.
  - Store history in database, allow reporting.
  - Generic webhook configuration/plugin interface.
  - Additional out of the box integrations, i.e., slack, service now.
  - More collaborators (you!?).

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Why did we build this?

Benefits of DSC

We are doing it already… think Terraform, Ansible. Why not with Veeam®?

- **Consistency:** infrastructure is configured in a consistent manner.
- **Security:** you are secure and compliant with your organization's security policies.
- **Validation:** continually validate that your infrastructure is configured correctly and free from "configuration drift".
- **Reusability:** define once, re-use across multiple environments, making it easier to maintain consistency, increased security posture, easier to support.
- **Reporting:** monitor and track changes to your environment over time.

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Why monitor? Proactive vs. reactive

Isn't it better to fix something on your timetable vs. 2 a.m. on a Saturday?

Reactive monitoring:

- Reacting to incidents.
    - Example: database runs out of disk space.
- If the system is working, leave it alone!

Proactive monitoring:

- Preventing incidents from occurring.
    - Example: database has less than 15% of disk space, so additional storage is added.
- Builds on top of reactive monitoring lessons learned.
- Active interrogation of monitored system to understand how the system is behaving.

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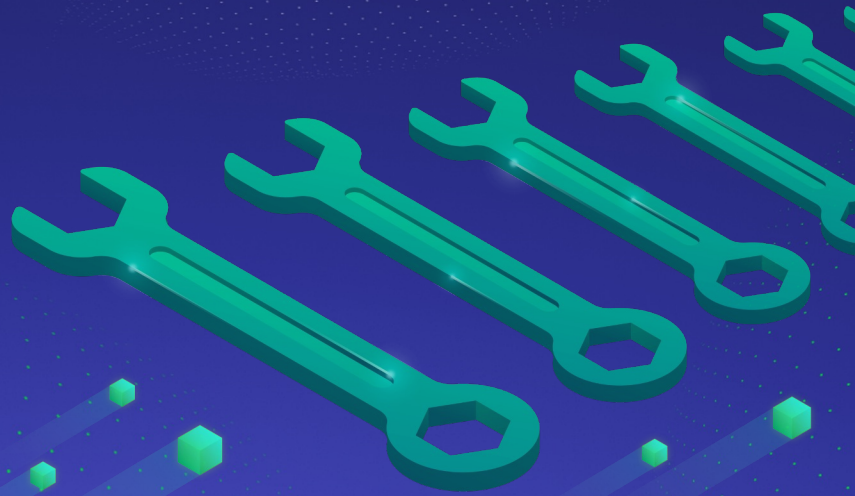

How did we build this?

Working with APIs: tricks of the trade

Veeam Help Center Documentation

Swagger UI

Built-in to Veeam and enables easy testing of Veeam APIs including some documentation.

Postman

Tool used to test/build complex integrations with REST APIs. Import Veeam APIs directly into Postman!

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Reference links

Download the code

github.com/benyoungnz/vbr-state-machine-console

- Contribute.
- Download source or docker image.

On the Twitter-sphere

@benyoungnz or @chris_arceneaux

Veeam VBR API Reference

helpcenter.veeam.com/docs/backup/vbr_rest/rest_api_reference.html?ver=120

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Questions?

Thank you!
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