Microsoft

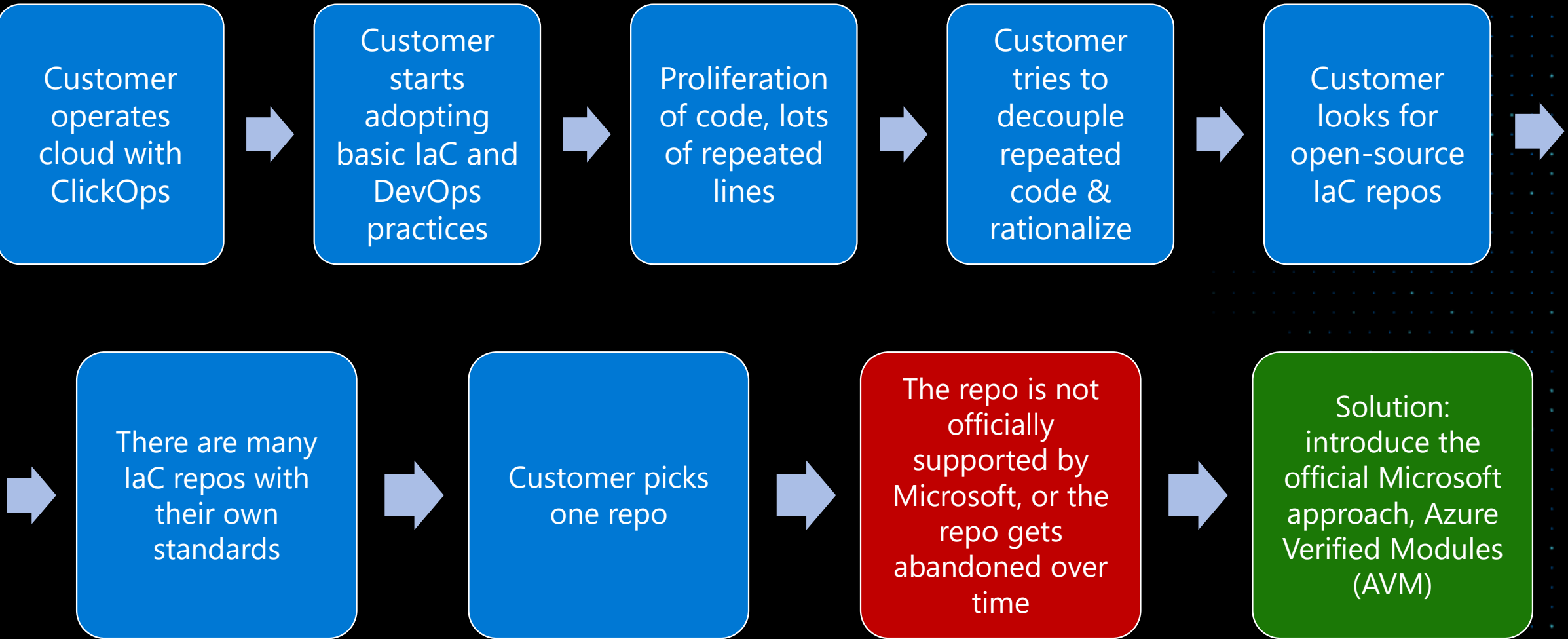# Azure Verified Modules (AVM)
The Microsoft IaC Module Strategy for Bicep & Terraform

Problem Statement from our Customers

Customer operates cloud with ClickOps → Customer starts adopting basic IaC and DevOps practices → Proliferation of code, lots of repeated lines → Customer tries to decouple repeated code & rationalize → Customer looks for open-source IaC repos →

→ There are many IaC repos with their own standards → Customer picks one repo → The repo is not officially supported by Microsoft, or the repo gets abandoned over time → Solution: introduce the official Microsoft approach, Azure Verified Modules (AVM)

What is our mission?

"Our mission is to deliver a **comprehensive Azure Verified Modules library** in **multiple IaC languages**, following the principles of the **well-architected framework**, serving as the **trusted Microsoft source of truth**.
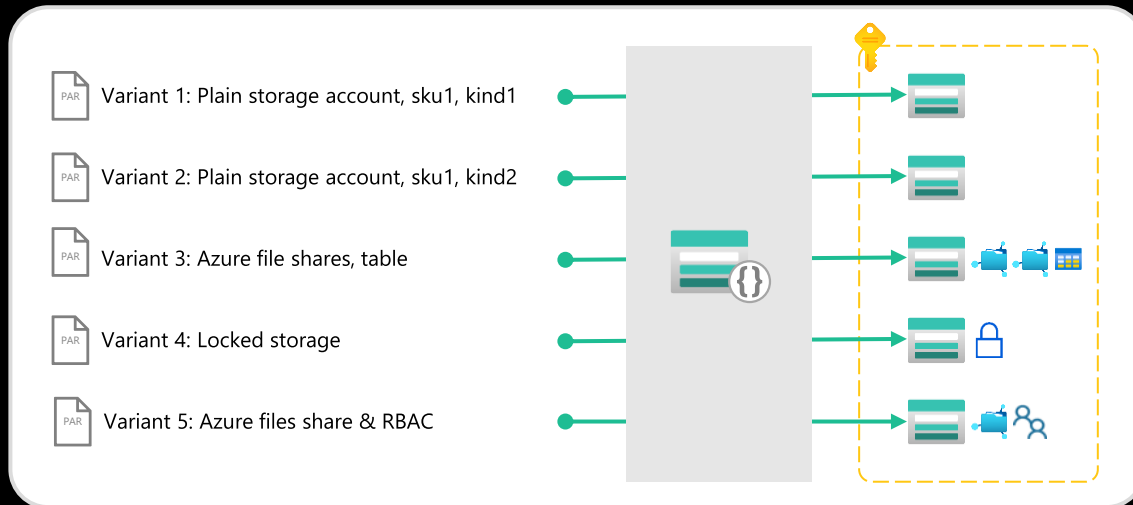
Supported by Microsoft, AVM will **standardize and accelerate the deployment** of Azure **resources** and **architectural patterns**, empowering every person and organization on the planet on their IaC journey."

Provide common IP for our Customers, Partners and Microsoft
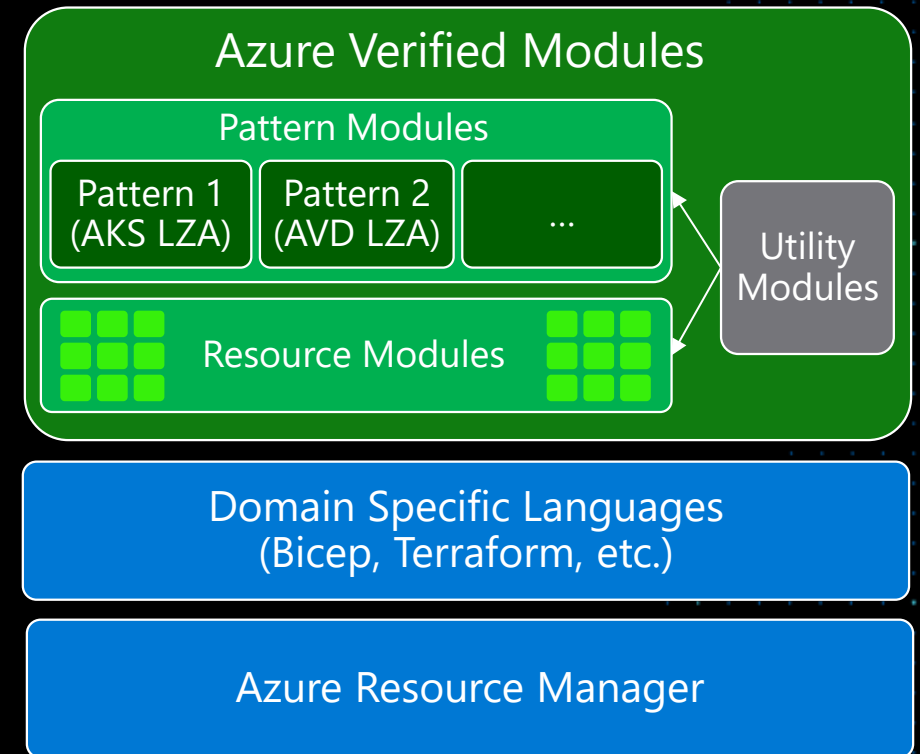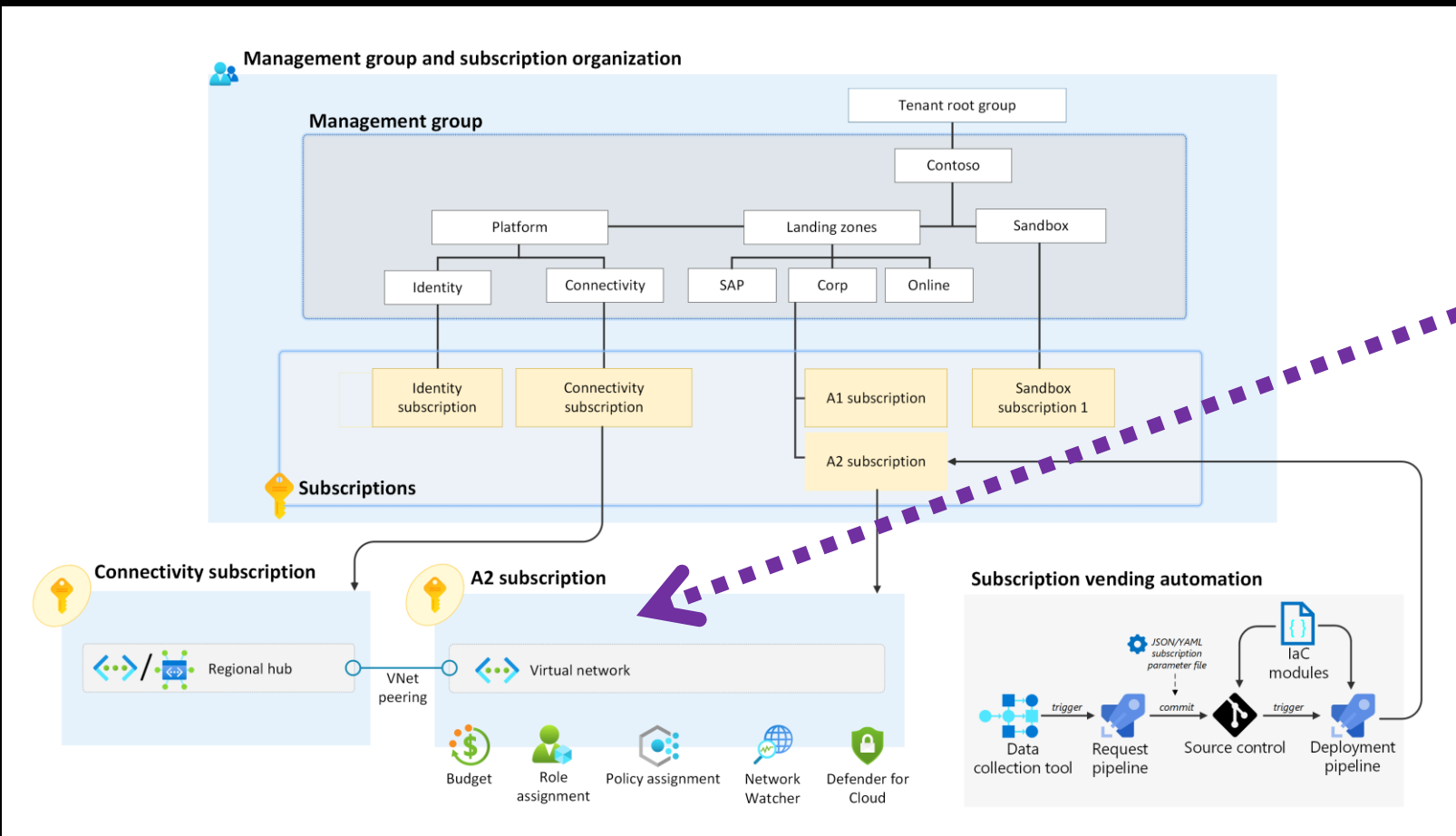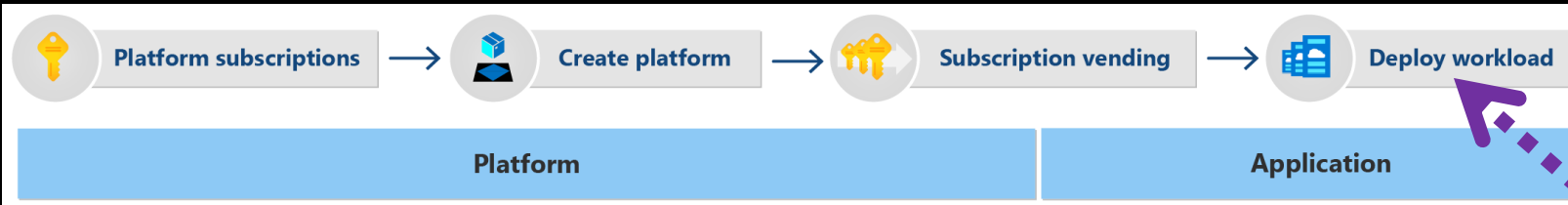
Azure Verified Modules (aka.ms/AVM)

- AVM is an official, **Microsoft driven initiative** to consolidate and set the standards **for Infrastructure-as-Code modules**, with a **devolved ownership approach to develop modules**, leveraging internal & external communities.
- AVM modules are **composable building blocks** that encapsulate groups of resources dedicated to one task. These modules are used to **deploy Azure resources** and their **extensions consistently**.
- AVM **accelerates** the **delivery** of cloud-native or migrated **applications and** their supporting **infrastructure**, **reliably/consistently** and **at scale**, by codifying Microsoft guidance (WAF), with best practice configurations (Resiliency and Security by default).

Variant 1: Plain storage account, sku1, kind1

Variant 2: Plain storage account, sku1, kind2

Variant 3: Azure file shares, table

Variant 4: Locked storage

Variant 5: Azure files share & RBAC

Flexible, generalized, **multi-purpose**
Integrates **child resources**
Integrates **extension resources**

Azure Verified Modules

Pattern Modules

Pattern 1 (AKS LZA) Pattern 2 (AVD LZA) ...

Resource Modules

Utility Modules

Domain Specific Languages
(Bicep, Terraform, etc.)

Azure Resource Manager

Where does AVM fit in our customer journey?

AVM is targeted towards customers wishing to **build, construct and deploy workloads** into their **application landing zones (subscriptions).** Whether **self-constructed** from **resource modules** or using **pre-built pattern modules**

These customers have typically already deployed ALZ using our existing implementation options

Website

aka.ms/AVM

Learn about AVM

Module indexes

https://aka.ms/AVM/ModuleIndex

Module classifications

https://aka.ms/AVM/ModuleClassifications

What does "Verified" mean?

https://aka.ms/AVM/Verified

FAQ

https://aka.ms/AVM/FAQ

Telemetry

https://aka.ms/AVM/Telemetry

Module Support

https://aka.ms/AVM/Support

Using AVM

https://aka.ms/AVM/Using

Contributing

https://aka.ms/AVM/Contributing

Resources

✅ Introducing Azure Verified Modules
- Azure Verified Modules public website - https://aka.ms/AVM
- Intro video: https://aka.ms/AVM/intro
- Intro blog: https://aka.ms/AVM/intro/blog
- FAQ: https://aka.ms/AVM/FAQ
- Module Index: https://aka.ms/AVM/ModuleIndex
- Propose a new module: https://aka.ms/AVM/ModuleProposal

🧪 Try out AVM using our labs:
- Bicep lab: https://aka.ms/avm/bicep/labs
- Terraform lab: https://aka.ms/avm/tf/labs

🧬 Lifecycle and getting help/support
- Request new feature/report bug for existing module
  - Bicep: https://aka.ms/AVM/Bicep/ModuleIssue
  - Terraform: create an issue on the repo of the module in question
- Generic question for AVM: https://aka.ms/AVM/QuestionFeedback

Microsoft

Thank you!