

## Roger Carson & Erhan Sanlioglu

Automating Standardization - Azure Landing Zones Vending Machine



# 12 regional and local SpareBank 1 banks are partners in the alliance

























De 8 lokale SamSpar-bankene

# Known brand names within SpareBank 1 alliance

















### SpareBank 1 Alliance - Multi-Cloud







Since 2017
Everything else, big and small
Used by the banks and companies themselves



#### In this session

- What is a landing zone?
- Standardization and subscription vending
- Demo: Ordering a landing zone
- Subscription vending machine automation
- Demo: Deployment and the code
- Demo: The new landing zone
- What is next for our vending machine





# What is a Landing Zone?





## What is a Landing Zone?



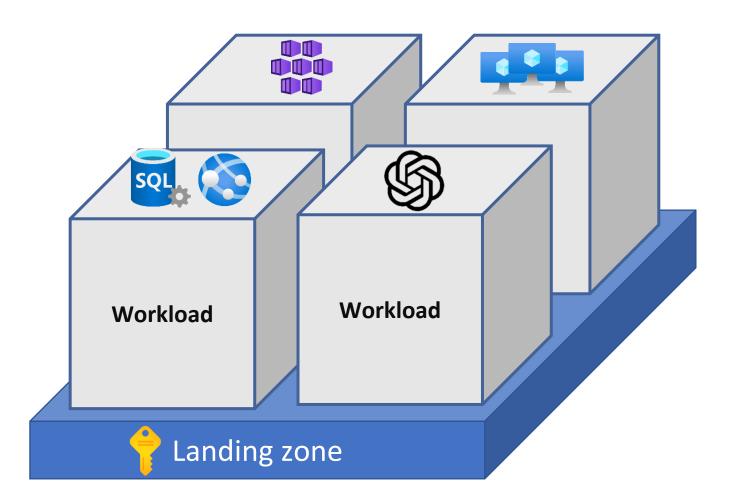


Governance (policy)











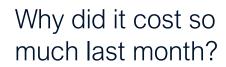
### The Need for Standardization





#### The Need for Standardization

We use Terraform, no probs



What is this policy thing?



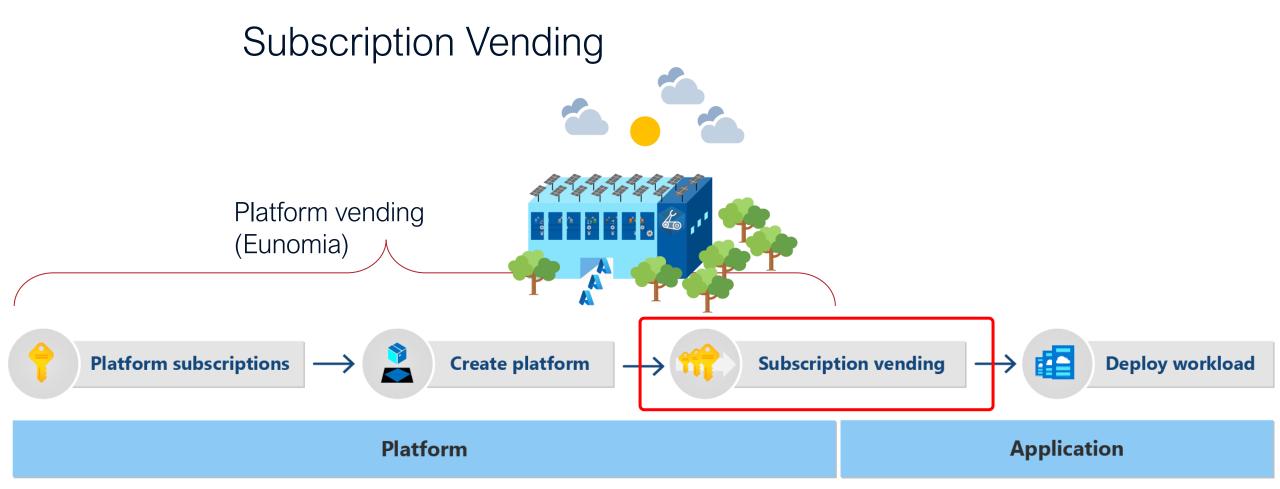
ClickOps, ftw!

Love Bicep, this is easy

Azure portal, what is that?

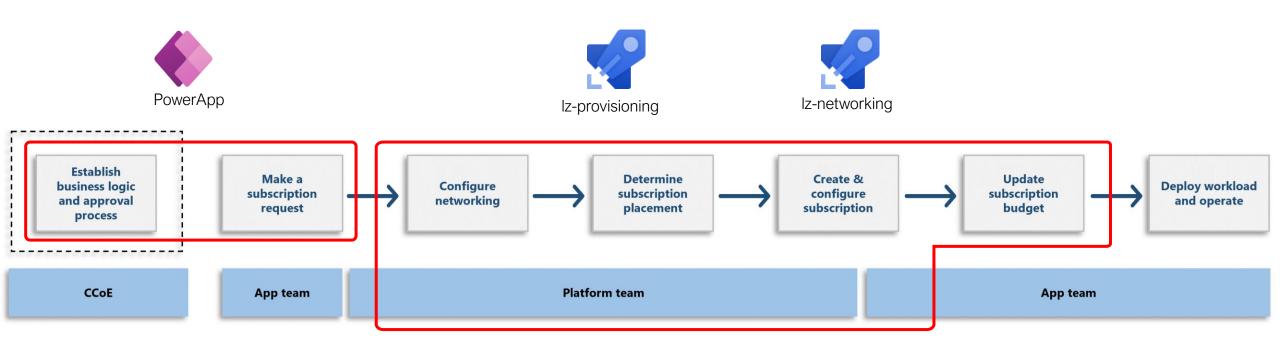








## Subscription Vending Orchestration

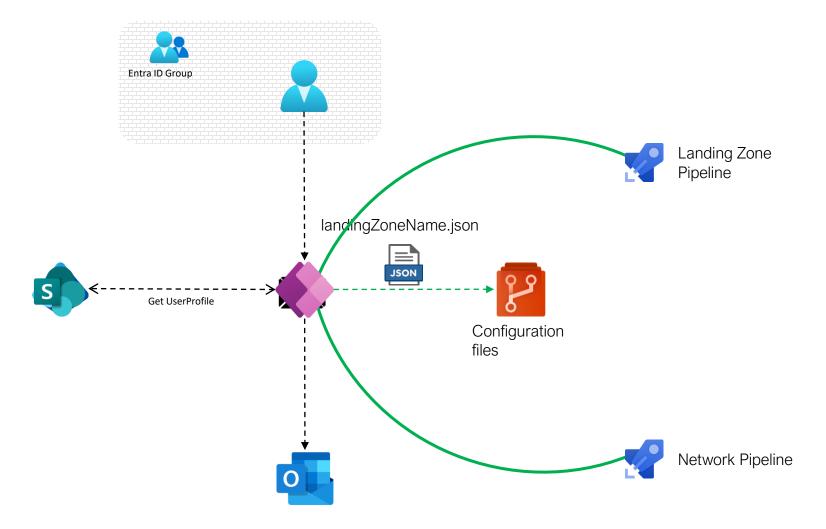




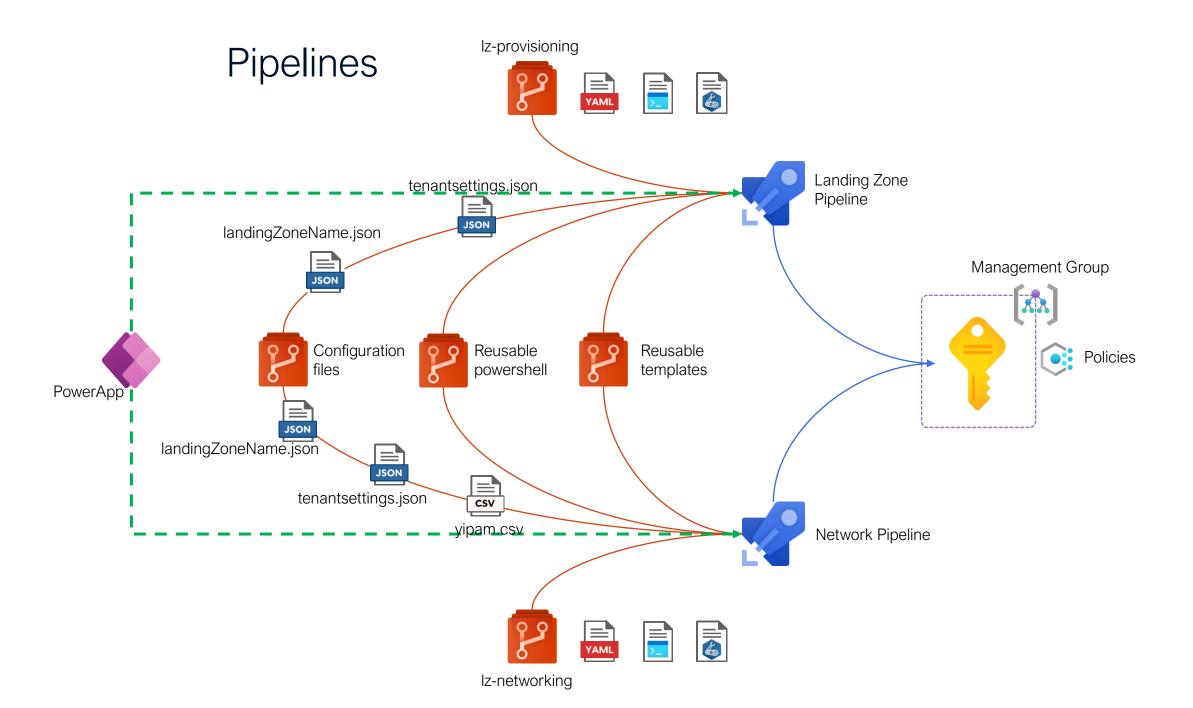
Demo – New LZ order

```
"name": "string",
"managementGroup": "string",
"tags": {
    "companyCode": "string",
    "projectNumber": "string",
    "environment": "string",
    "defender": "string",
    "spendingLimit": int,
    "costOwner": "string"
},
"workload": "string",
"IAM": {
    "groupAdmins": [...]
},
"billing": {
    "billingProfile": {
        "name": "string",
        "id": "string"
    },
    "invoiceSection": {
        "name": "string",
        "id": "string"
},
"security": {
                                                           landingZoneName.json
    "contactinfo":[...]
},
"dev0ps": {...},
"networking": {
    "vnet": [
            "resourceGroupName": "string",
            "rgLocation": "string",
            "vnetName": "string",
            "size": "string",
            "joinToVWAN": true,
            "managedVnet": true,
            "managedNSG": true,
            "vnetLocation": "string",
            "addressPrefix": [],
            "subnets": []
```



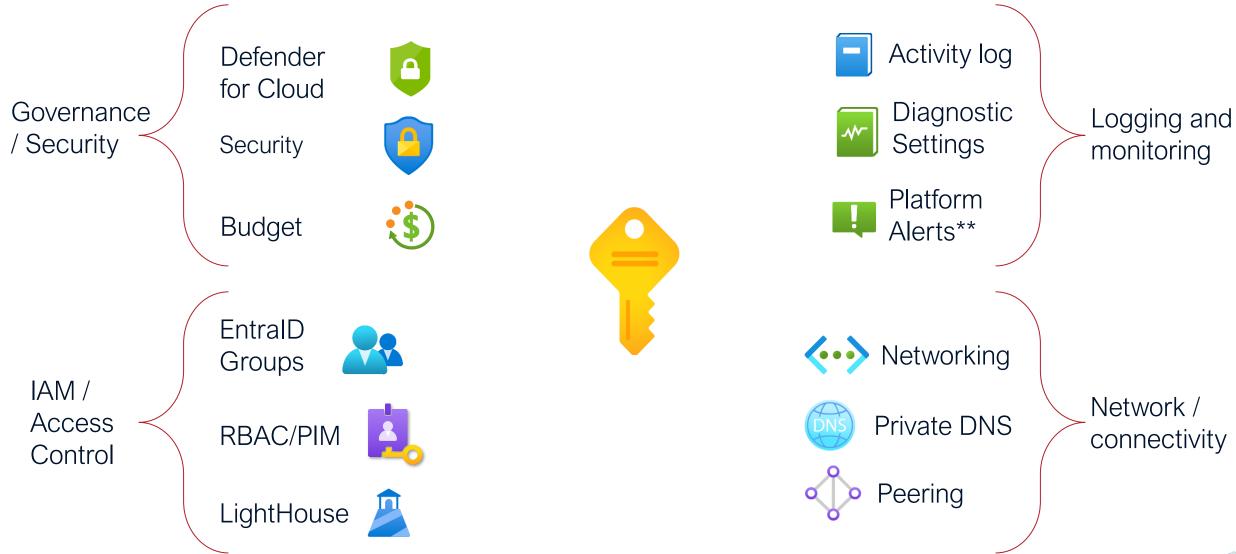




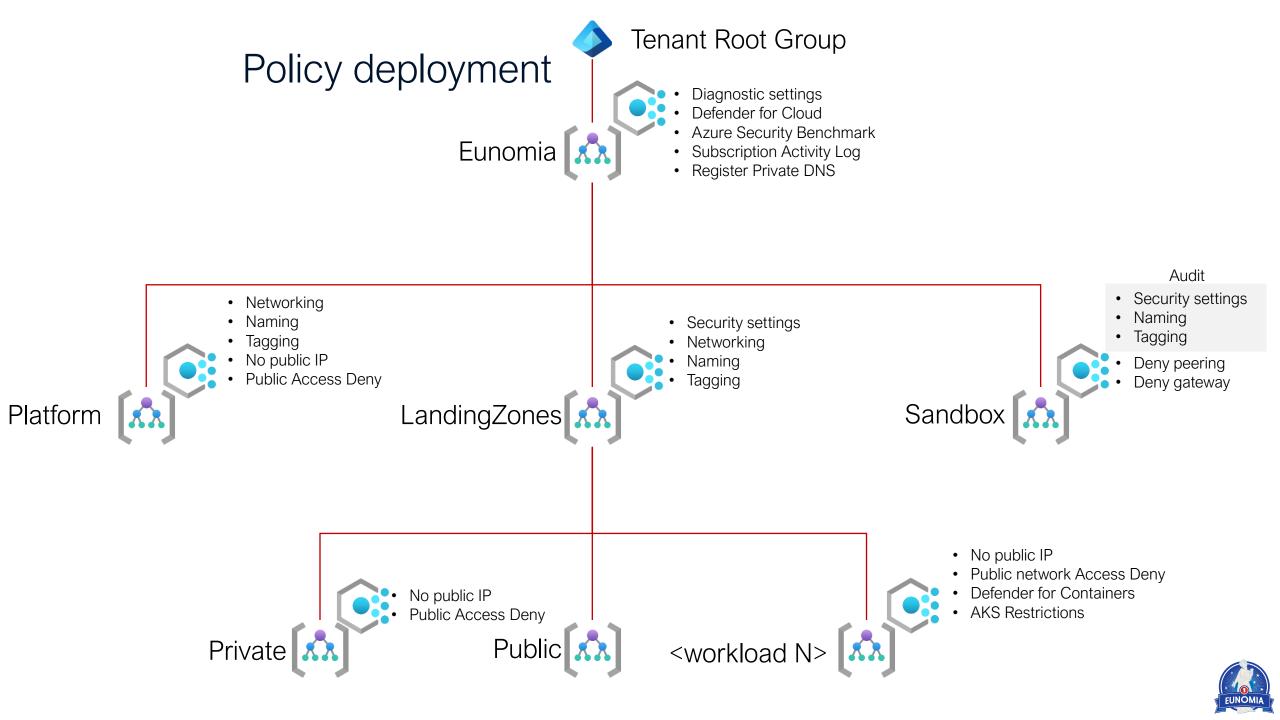




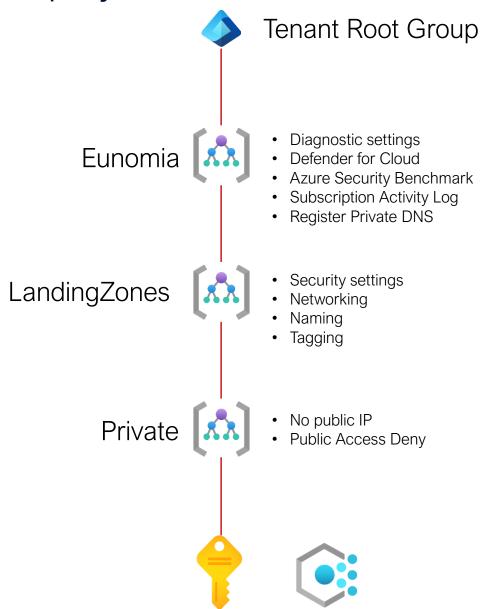
## What comes out of the vending machine







Policy deployment



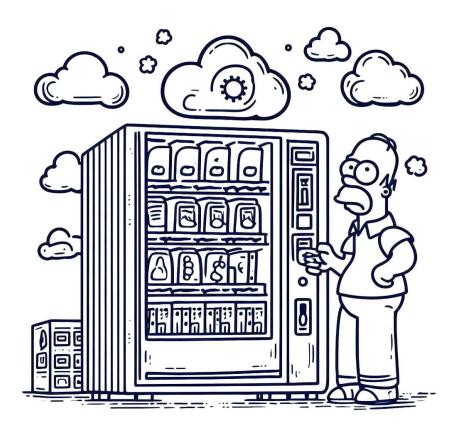




Demo – Deployment

## What is next for our vending machine

- Policy refresh EPAC
- Compare notes with Microsoft GitHub repositories
- New features in Bicep
- Update API versions/code maintenance
- Common services
- No more YIPAM
- Additional self-service options





#### Links

https://medium.com/sparebank1-digital/azure-landing-zone-vending-part-1-4a9333dc4569

https://medium.com/sparebank1-digital/azure-landing-zone-vending-part-2-ba60d29984ec

https://medium.com/sparebank1-digital/azure-landing-zone-vending-part-3-d9776ae79d57

ALZ-Bicep: https://github.com/Azure/ALZ-Bicep

Blog Post:

Bicep LZ Vending: https://github.com/Azure/bicep-lz-vending

CARML: https://github.com/Azure/ResourceModules

EPAC: https://azure.github.io/enterprise-azure-policy-as-code/

Cloud Adotion Framework: https://learn.microsoft.com/en-us/azure/cloud-adoption-framework/overview



LinkedIn: Roger



LinkedIn: Erhan Sanlioglu



