

Hybrid & Multi Cloud Infrastructure Automation: From Vision to Reality

ŞİŞECAM

RedHat Summit Day

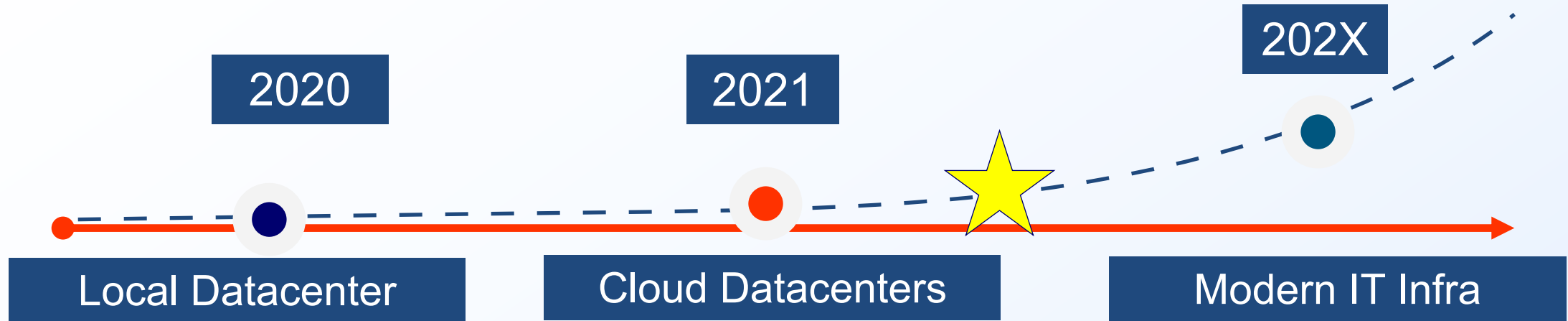
20.11.2025



- First Step of Automation Journey
- Challenges Before Infrastructure Automation
- Gartner Hype Cycle
- Strategy & CoE
- Automation & Orchestration
- Roadmap
- Architectural Design
- Use Cases Categories
- Follow Up
- Automation Lifecycle



First Step of Automation Journey





Challenges Before Infrastructure Automation & Automation Maturity

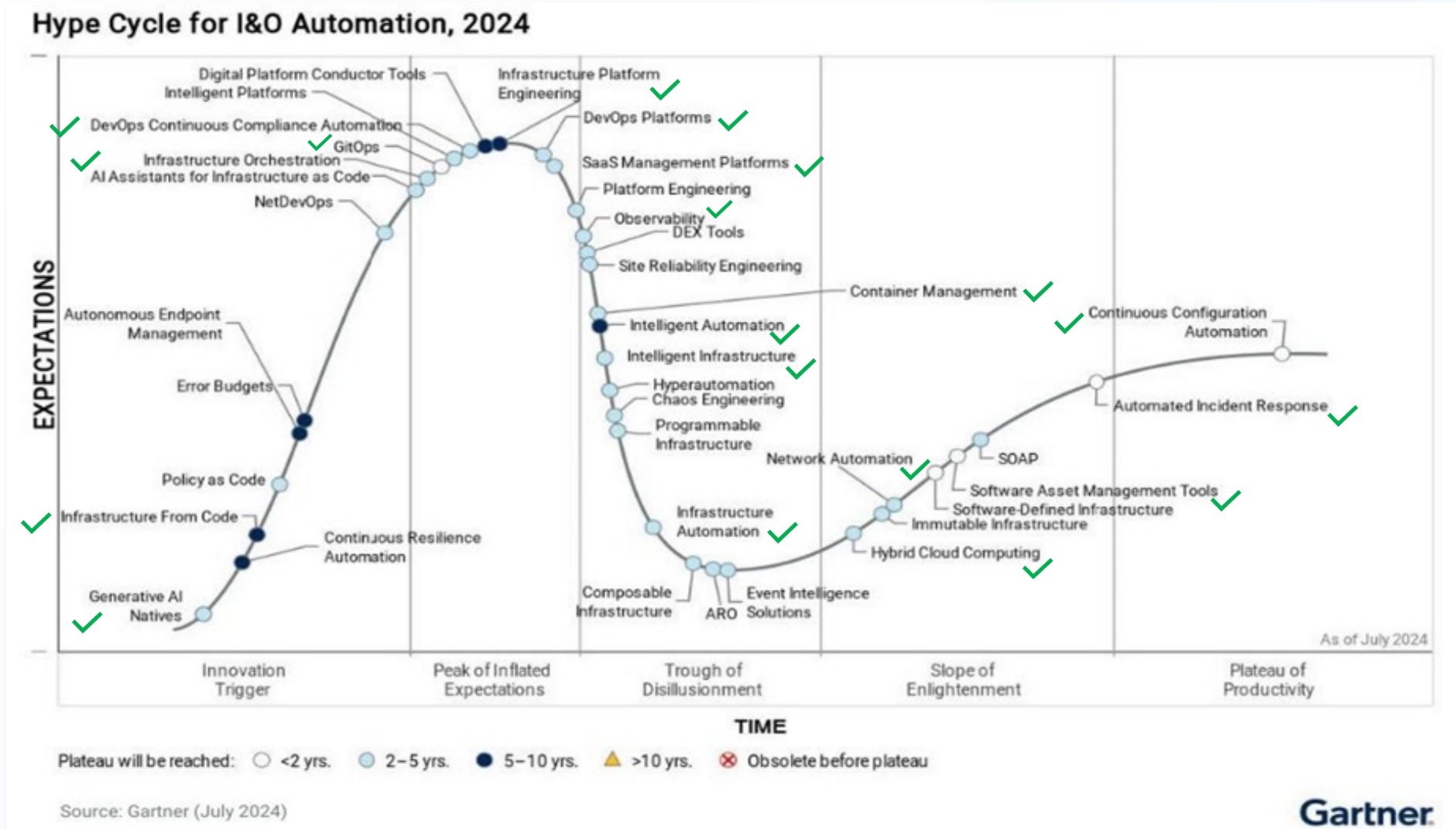
- Manual Configuration Management
- Lack of Standardization
- Human Errors
- Inconsistencies
- Difficulty in Multiplatform Management
- Risk & Fault
- Slow Provisioning & Deployment
- Inefficient Incident Response & Troubleshooting
- Scalability Issues
- Same Effort for Same Jobs

Automation Maturity Characteristics

Low Maturity High Maturity					
Infrastructure silos	Sketchy inventories	Manual handoffs for delivery	Handles multiple personas	Minimal provisioning time	Self-service
Long provisioning time	Sole emphasis on compute	Reactive monitoring		Accurate dynamic inventories	Automation coordinated across silos
Services are fragile	Data is manually gathered			Monitoring with automated remediation	Applications provisioning with infrastructure
Unorganized and unstructured data	Heavy focus on infrastructure personas			Automated data collection and organization	Handoffs for delivery are automated
Services are perceived/measured as lengthy to deliver	Requires extensive SME engagement to support service			SME engagement to support automation that delivers service	Services are perceived/measured as delivered quickly



Gartner Hype Cycle for Infrastructure Operations Automation in 2024

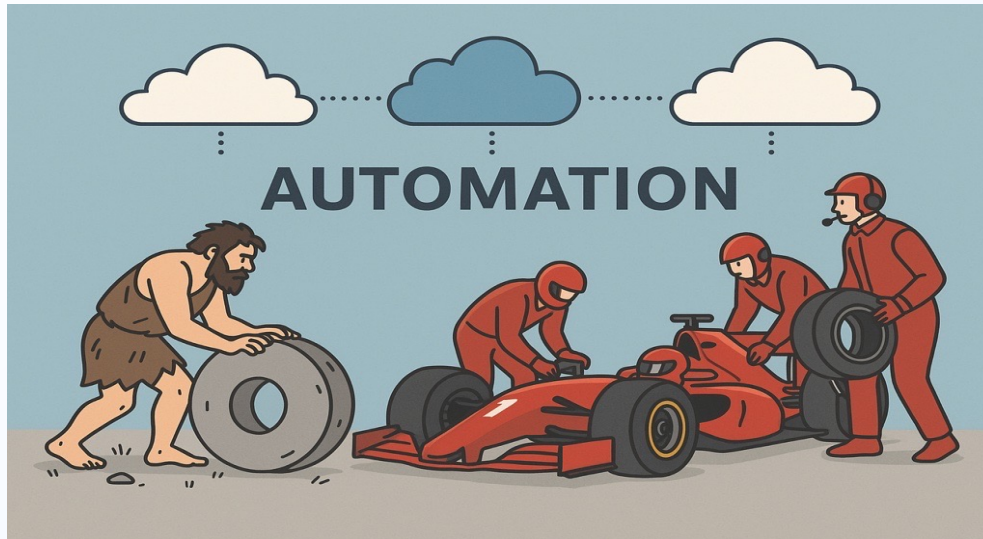




Şişecam Infrastructure Automation Strategy & Center of Excellence

Şişecam Automation Strategies:

- Technology for Sustainability
- Generative AI
- Enterprise Architecture
- Cyber Security, Risk, Compliance
- IT Operation Excellence
- Modular Multi Cloud Architecture
- Business Continuity

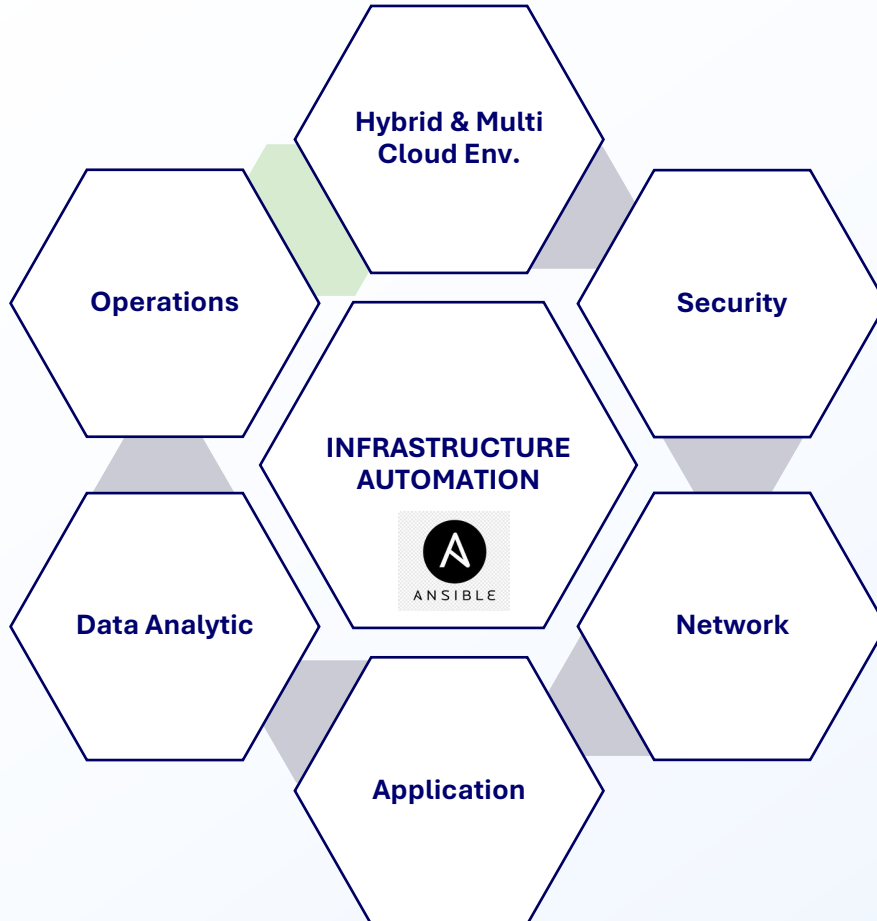


An automation COE :

- Engage with teams IT teams.
- Accelerate automation adoption.
- Align to an adaptive governance framework.
- Provide best practices and standardization.
- I&O Lifecycle Management
- Self Service Automation for IT



What is Infrastructure Automation and Orchestration for Şişecam



- Automation
- Automation with Ansible
- Orchestration
- Orchestration with Ansible
- Automation and Orchestration with complex, integrated systems
- Configurational Use Cases
- ~~Not For Repeatable & Human Base Activity~~

Infrastructure Automation Roadmap



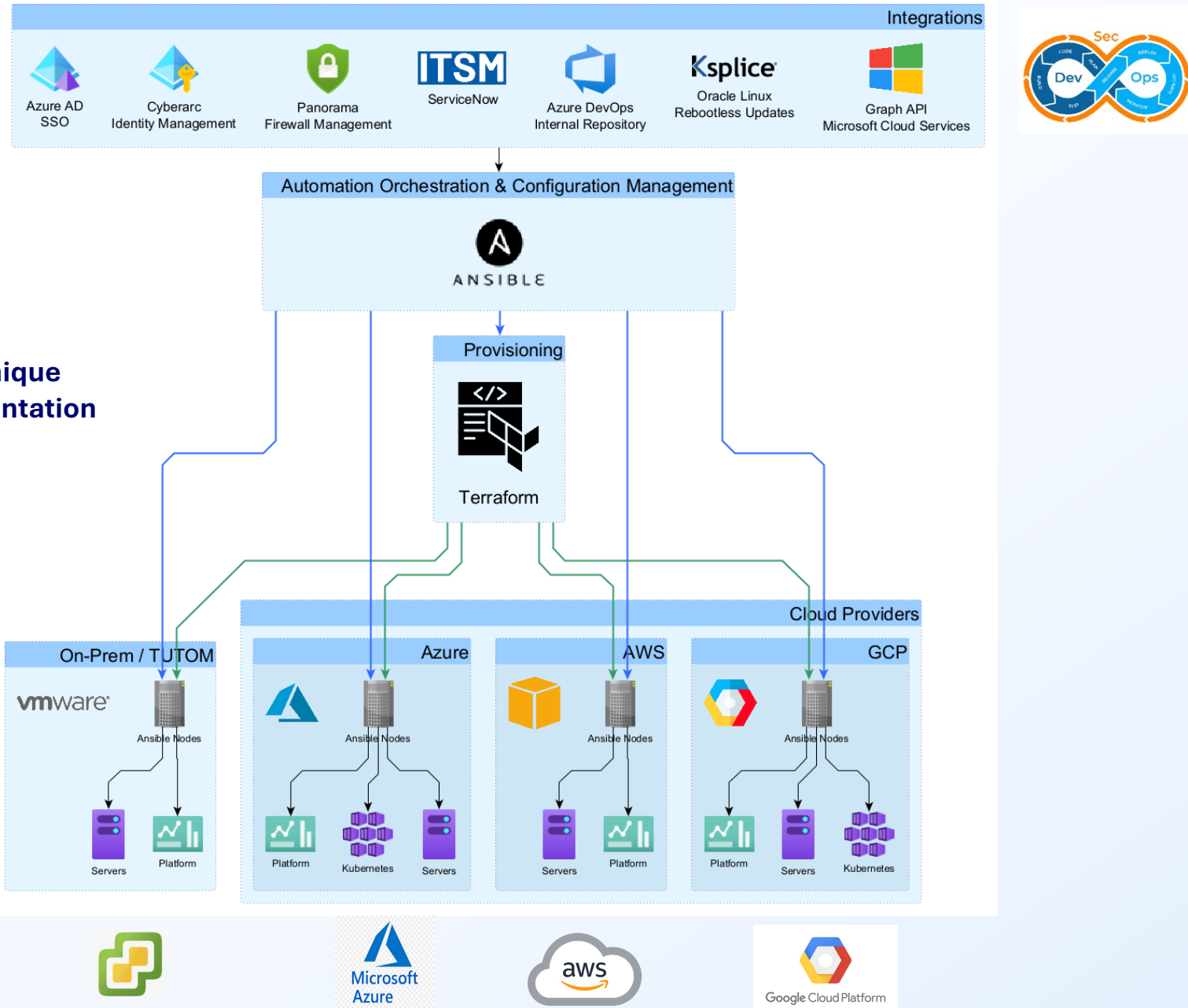
- | | | | | |
|---|--|--|---|---|
| 2023 <ul style="list-style-type: none">Infrastructure High Level Use Cases Discovery | 2024 Q1 <ul style="list-style-type: none">Activation Production Ansible EnvironmentInfrastructure Low Level Use Cases Design | 2024 Q2 <ul style="list-style-type: none">Activate Use Cases for InfrastructureScale Use Cases | 2024 Q3 <ul style="list-style-type: none">Infrastructure Transformation for ITAnalyzing Use Cases | 2024 Q4 <ul style="list-style-type: none">Infrastructure as Code AutomationBusiness ContinuityApplication Dependency |
|---|--|--|---|---|



- | | | | |
|--|--|--|--|
| <ul style="list-style-type: none">Architectural ImprovementsObject as a Code Phase 1Event Automation Phase1Visualization IntegrationApplication Dependency | <ul style="list-style-type: none">Automation as a Code Basis<ul style="list-style-type: none">Configuration as CodeService & App Level Use Cases<ul style="list-style-type: none">Self Service Automation | <ul style="list-style-type: none">Continuous Development<ul style="list-style-type: none">BranchingContinuous Use Cases | <ul style="list-style-type: none">License ManagementAutomation with AI AnalysisObject as Code Phase 2Event Automation Phase 2 |
|--|--|--|--|

Sustainable Automation and Orchestration Architectural Design

Technique
Documentation





High-Impact Use Cases & Categories

Use Case	Category
Firewall Upgrades	Network
Traffic Monitoring	Application Dependency
Snapshot Mgmt	Infrastructure & FinOps
Agent Mgmt	Security
Patch Mgmt	Security
HR AD Photo Integration	Operations
Group Mgmt	Security
Unattached Disk Mgmt	Infrastructure & Hybrid & Multi Cloud & Finops
NonCompliant Device Mgmt	Hybrid & Multi Cloud
Turnstile Availability Monitoring	Device Mgmt

Disaster Recovery

Application Dependency

Business Continuity

FinOps

Hybrid & Multi Cloud

Infrastructure

Operations

Security

Network

Resource Management

Device Management

Application

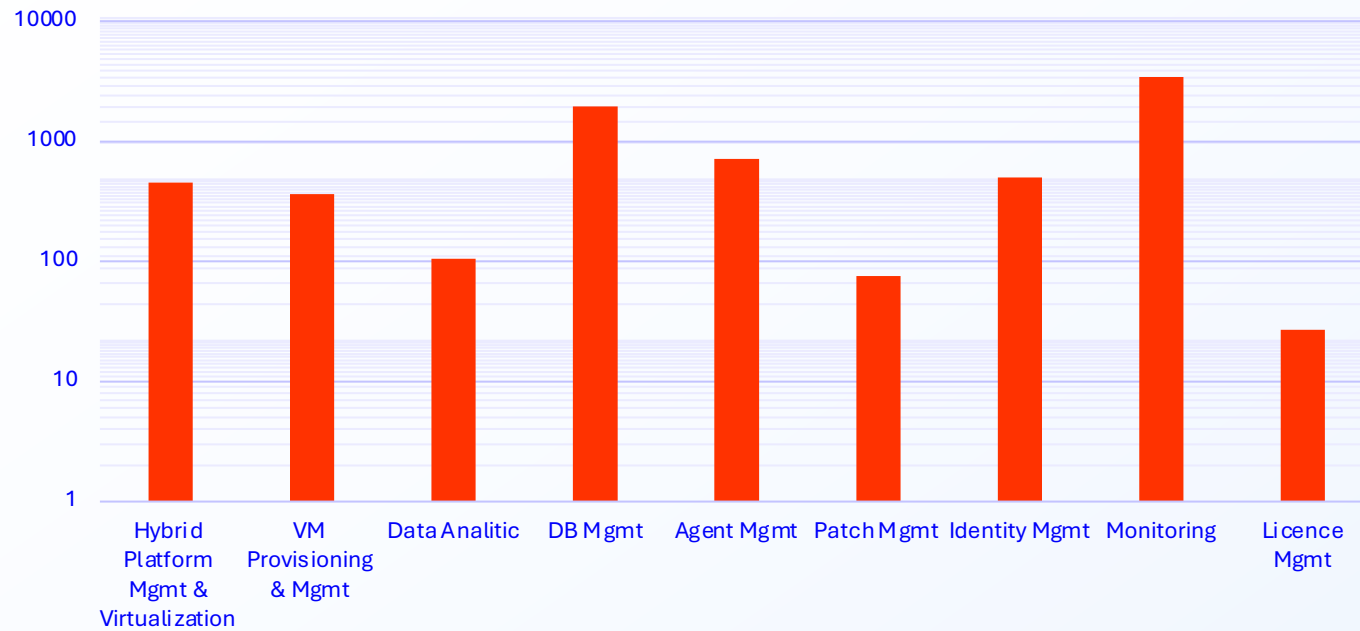
Container Management

Kubernetes Management



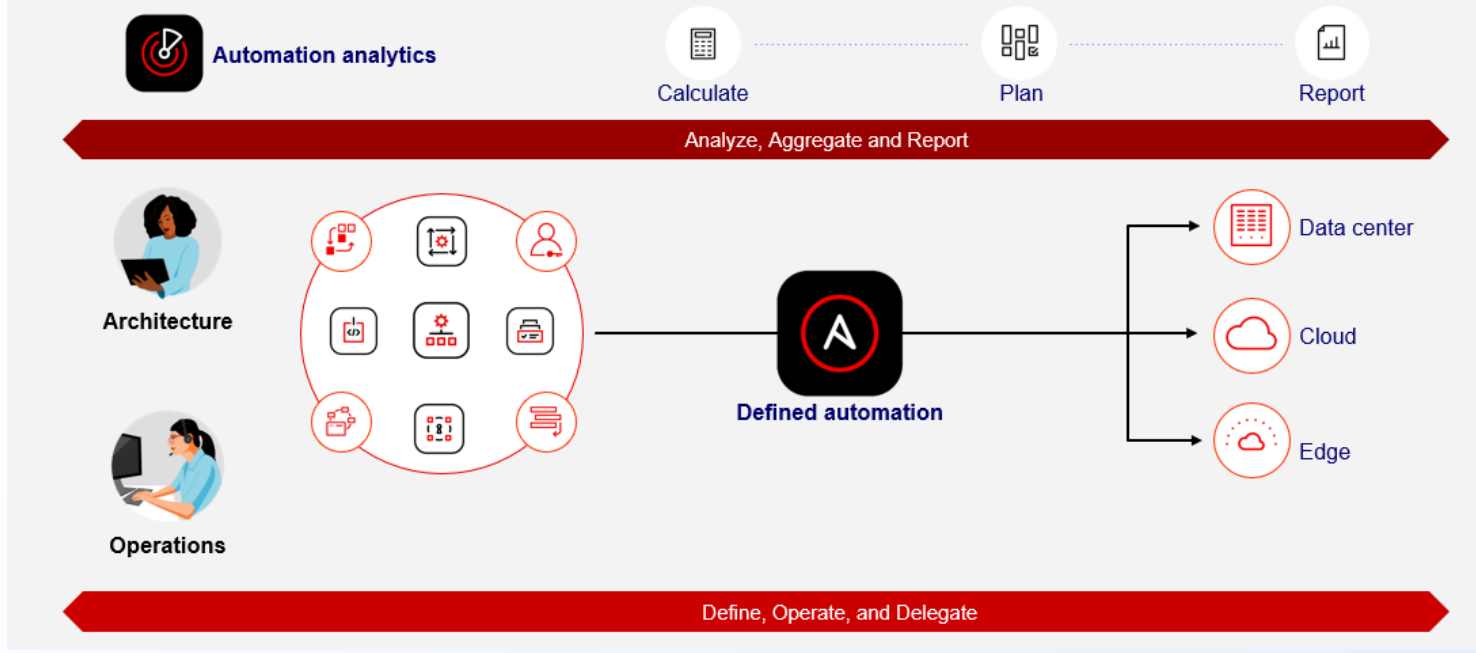
Automation Follow Up Meetings & Reports

Saving in Hours



Total Savings in Hours

JUNE	627
JULY	956
AUGUST	1708
SEPTEMBER	1851
OCTOBER	7603



Altyapı Otomasyon Hizmeti

Altyapı Otomasyon Hizmeti Talepleri

Altyapı Otomasyonu ile ilgili talebinizi bu form aracılığı ile iletebilirsiniz.

*Talebi başkası adına yapıyorsanız lütfen ilgili kişinin bilgilerini giriniz

*Konum

Geçici görev nedeniyle bağlı olduğunuz lokasyon dışında bir konumda bulunuyorsanız, lütfen bu konumu belirtiniz. ✕

T. SİSE VE CAM FAB. A.Ş.

*Süreç İsmi

Örnek: Sunucu Güncellemeleri ✕

*Öncelik

-- Hiçbiri --

*Detaylı Bilgi

IP adresleri ve sunucu adlarıyla birlikte sunucu listesi, Mevcut süreçte karşılaşılan hata türleri, yaygın gecikmeler veya problem alanları, sistem performansı ve sınırlamaları, altyapı otomasyon nedeniyle diğer süreçler üzerindeki etki ✕

*Kapsam

Örnek: Tüm Windows veya Linux Sunucuları ✕

*Etkilenen Altyapı, Bileşenler & Uygulamalar

*Manuel Akış Süreci

Aşağıda örnek bulabilirsiniz ✕

Sunucu Güncelleme Örneği için Mevcut Durum Akışı:

Sunucu Listesini Hazırla

Snapshot Al

Servisleri Durdur

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Thank You



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