

3 key considerations to drive value from your cloud migration





Introductions

Zack Morin, SVP Southeast Region

Avantra, AIOps platform that enables hyperautomation

Agenda




- SAP in the cloud - what does that mean?
- Technical automation
 - Planned cloud automation
 - Unplanned cloud automation
 - Automation platform and fringe automation
- How Avantra can help

SAP in the cloud

Private Cloud

Various Private
Cloud Providers
&
Managed Service
Providers

IaaS
Infrastructure as a Service
Hyperscalers



PaaS

Platform as a Service

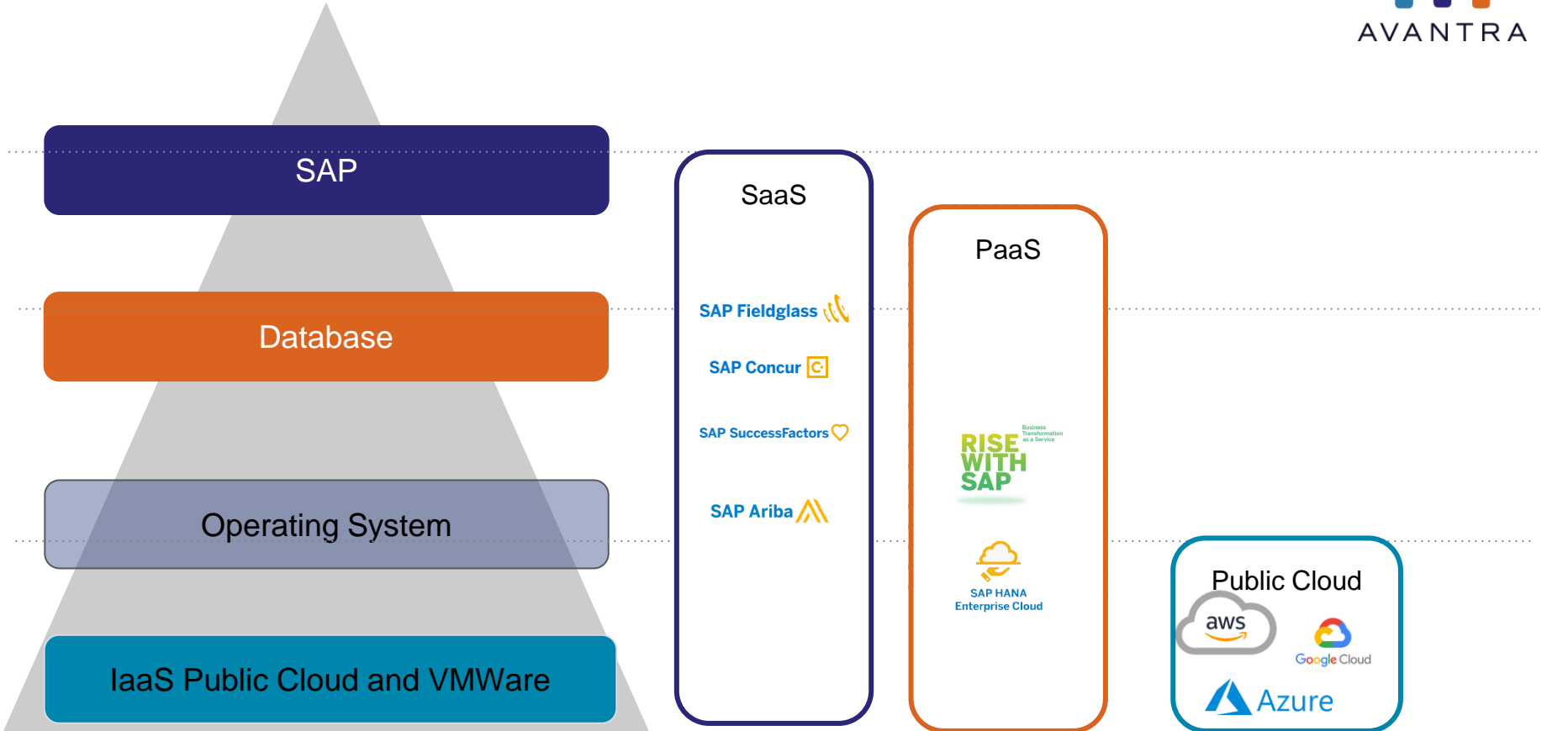


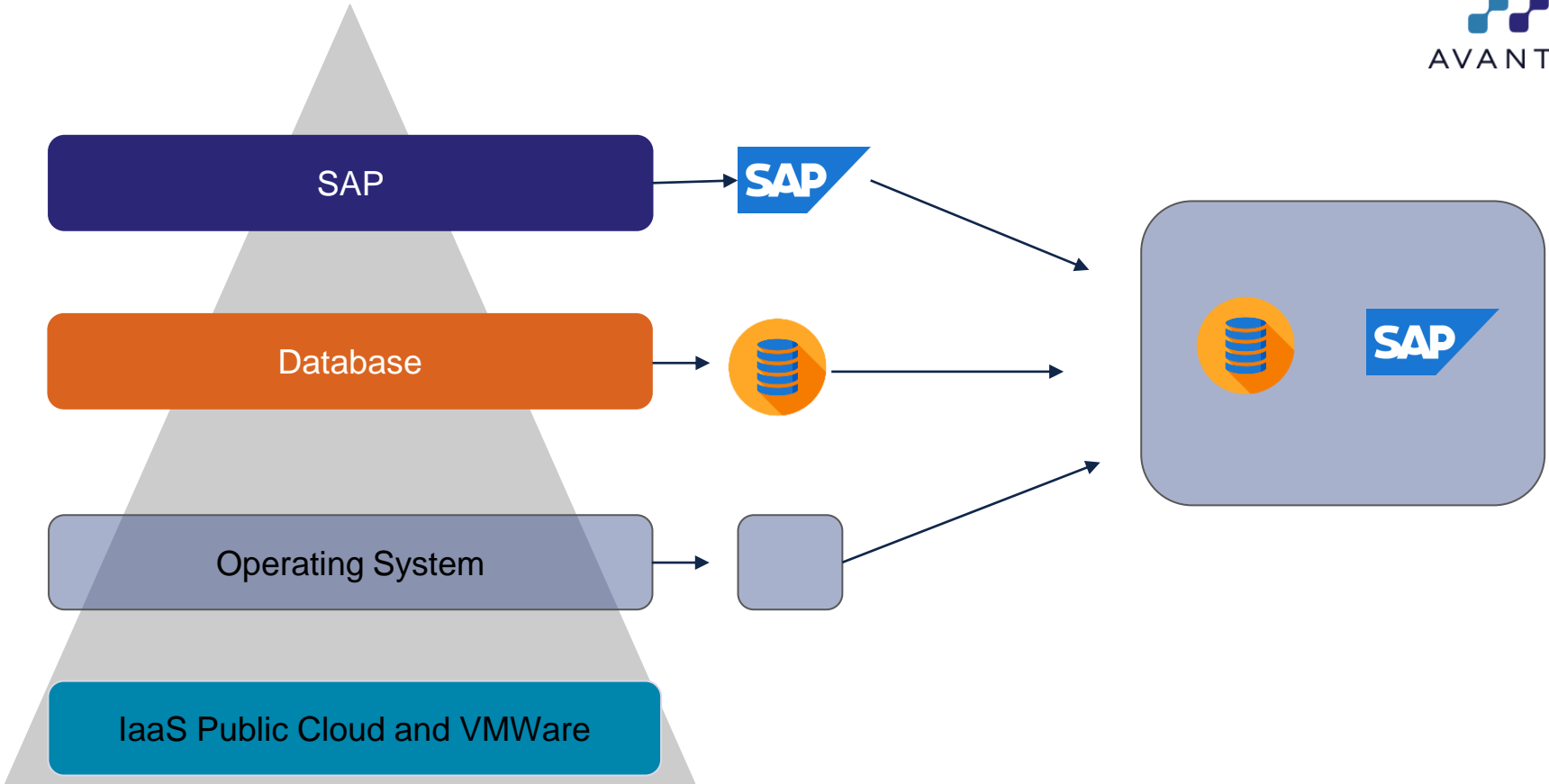
SaaS

Software as a Service

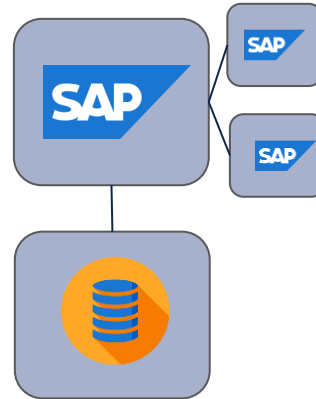


Cloud technical stack



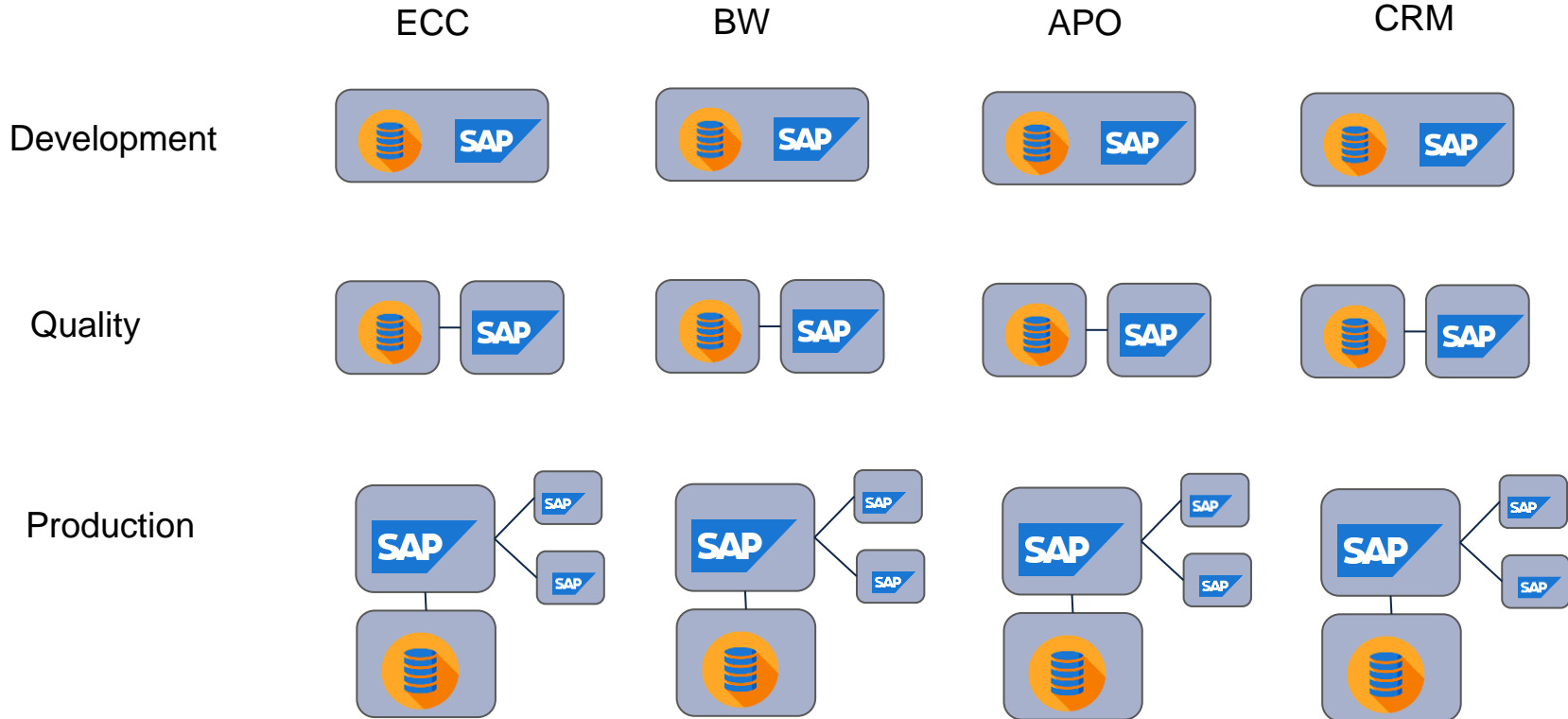


Technical SAP architecture

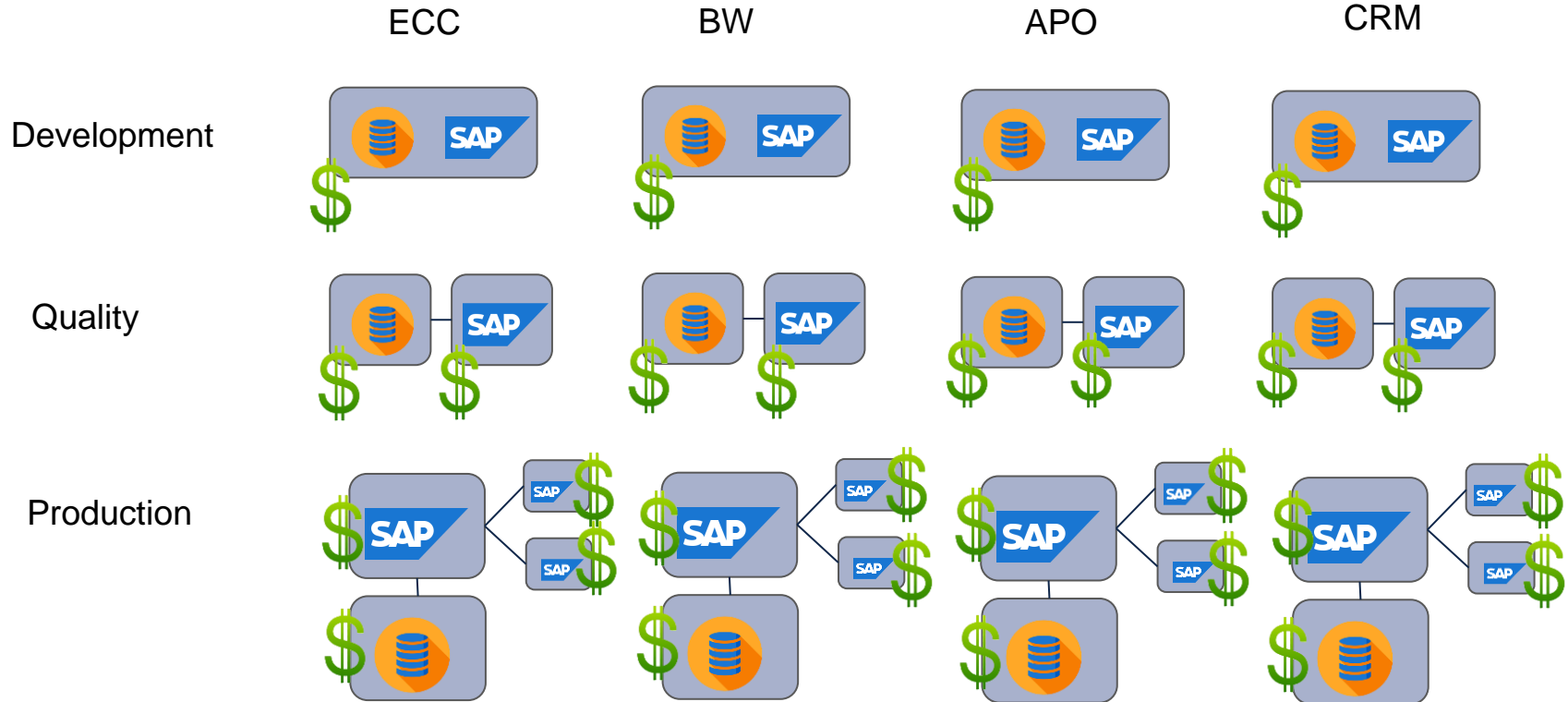


- SAP application and database on different servers
- Addition of application servers (work engines)
- SAP systems get much more complex

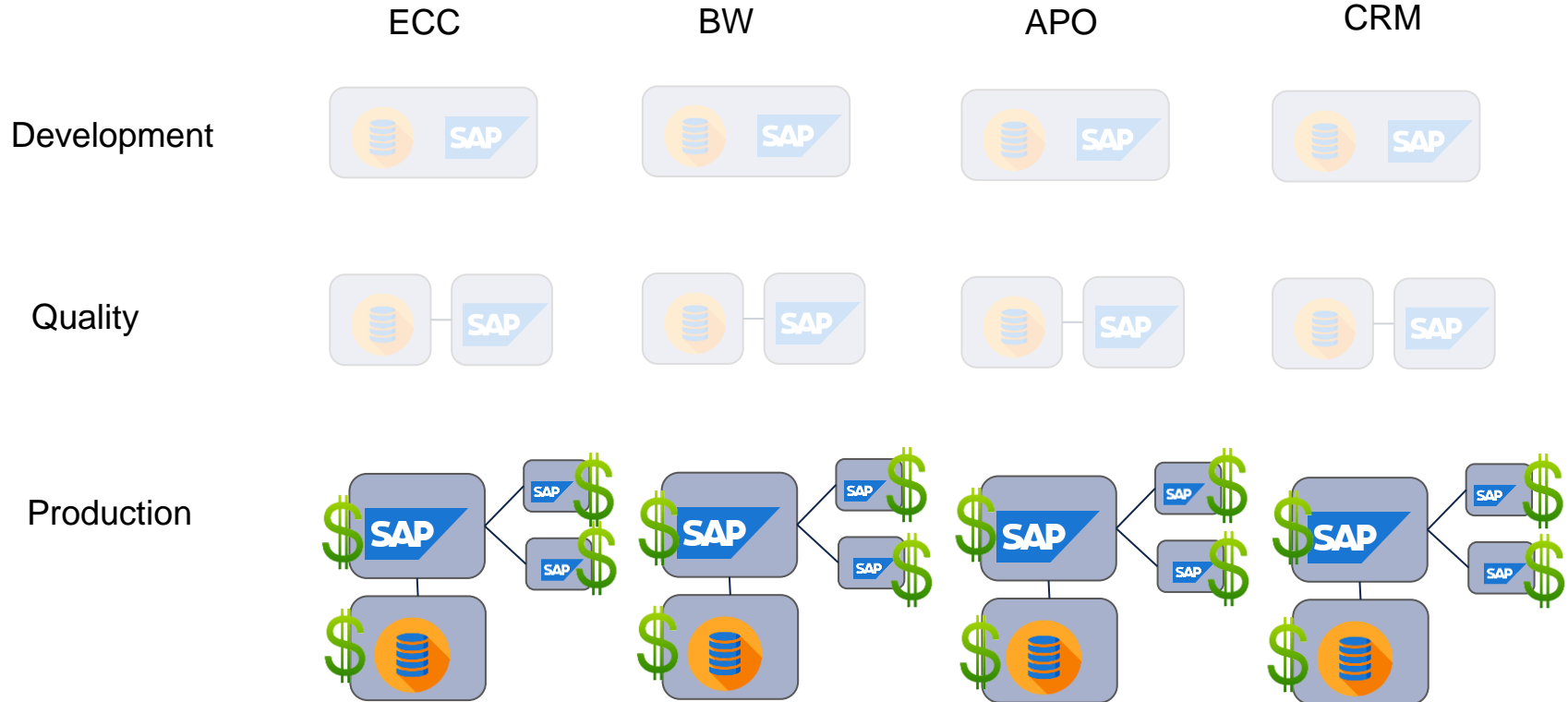
Complexity of SAP landscape



Cloud cost



Cloud cost savings



Planned cloud automation



- Significant cloud savings
- Consistent shutdown / startup processes
- Happy employees – No recurring off hours work
- Sustainability

Consistent Shutdown/Startup Processes

Stopping a SAP system is easy
Stopping large landscapes is time-consuming
and error prone

Could lead to:

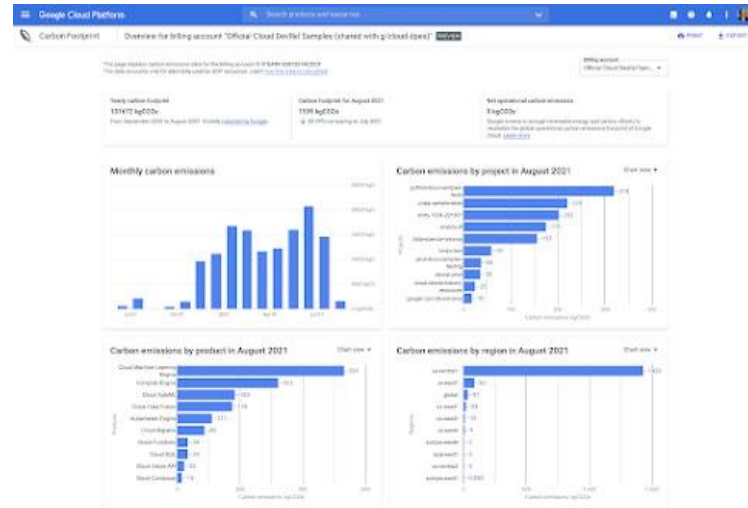
Data inconsistencies
Need for emergency testing



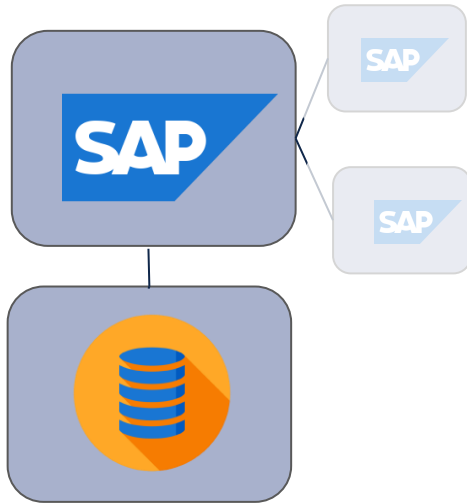
Sustainability

Google's Carbon Sense Suite - Aim to reduce your cloud carbon emissions

- Accurately measure your gross carbon footprint
- Visualize carbon insights via dashboards and charts
- Breakdown by
 - Region
 - Project
 - Product
 - Month



Unplanned Cloud Automation: Scaling Out



Work Processes

- Little work engines
- Many other SAP based metrics
- Not visible to non-SAP monitoring

Use Cases

- Unknown performance issues
- Busy season
- Month end closing
- Unsure architecture, M&A

It's a Pretty Sweet Deal

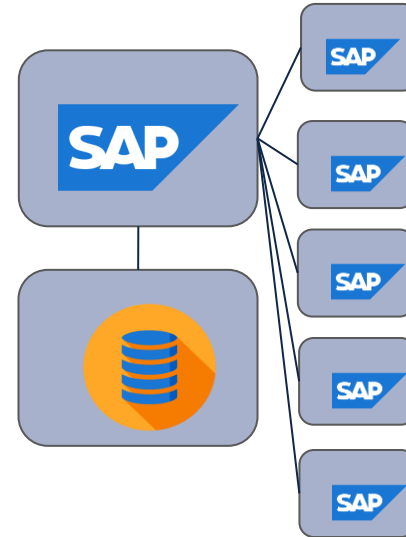
A candy company's incorrect journey to the cloud

Seasonal Busy Time

- 2 months out of the year they ran at full system capacity
- For 10 months they needed bare minimum

Cloud Migration

- Fork-Lift approach
- Didn't consider new architectural practices
- Ran at full capacity 12 months out of the year and paid for it!



**Not including non-Production overload

Unplanned cloud automation



- Maintain ongoing low cloud costs
- Keep business moving
- Better support life, give the team time to research issues

Automation platform

& fringe automation

Every SAP environment is unique

- Architecture
- Development
- Supporting software (3rd party, backups, etc...)
- Interfaces (legacy systems, banks, vendors, etc...)

A platform is needed where automation can be customized

- Planned
- Unplanned



Automation across the technical stack



**With correct authorizations

SAP

Trigger an ABAP Event
Calling remote function calls & BAPI
Kernel Upgrades
Identify HotNews/High security notes
Start/Stop (SAP system or individual instances)

Database

Database Refreshes
Run SQL Scripts
Start/Stop SAP database

Operating System

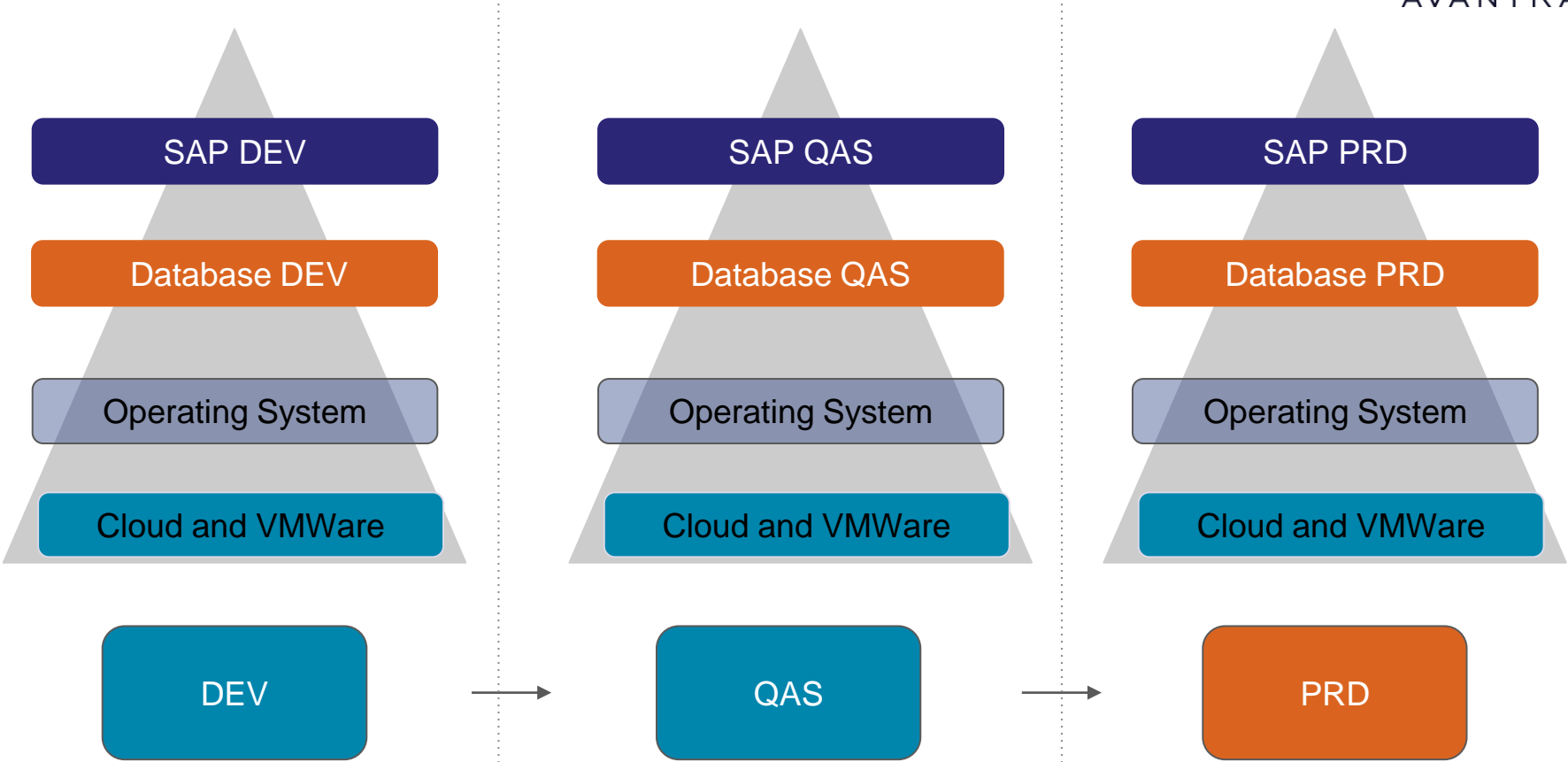
Run Command Line Commands
Run Scripts from central Avantra Master
SSH
Start/Stop with IaaS Public Cloud and VMWare
Modifying SAP Profile Parameters

IaaS Public Cloud and VMWare

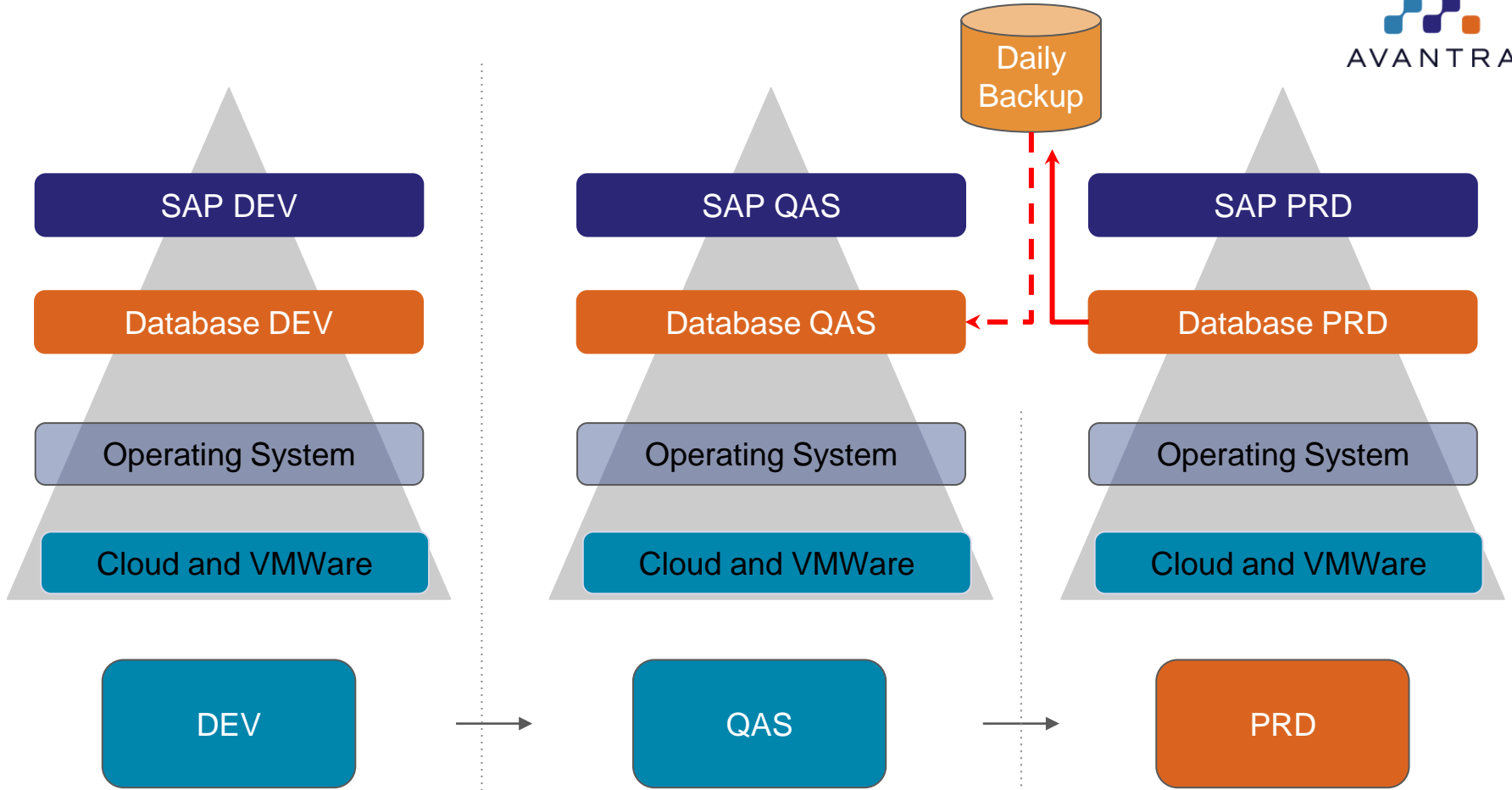
Start/Stop - Scheduled and Triggered

**Combine and Orchestrate Order

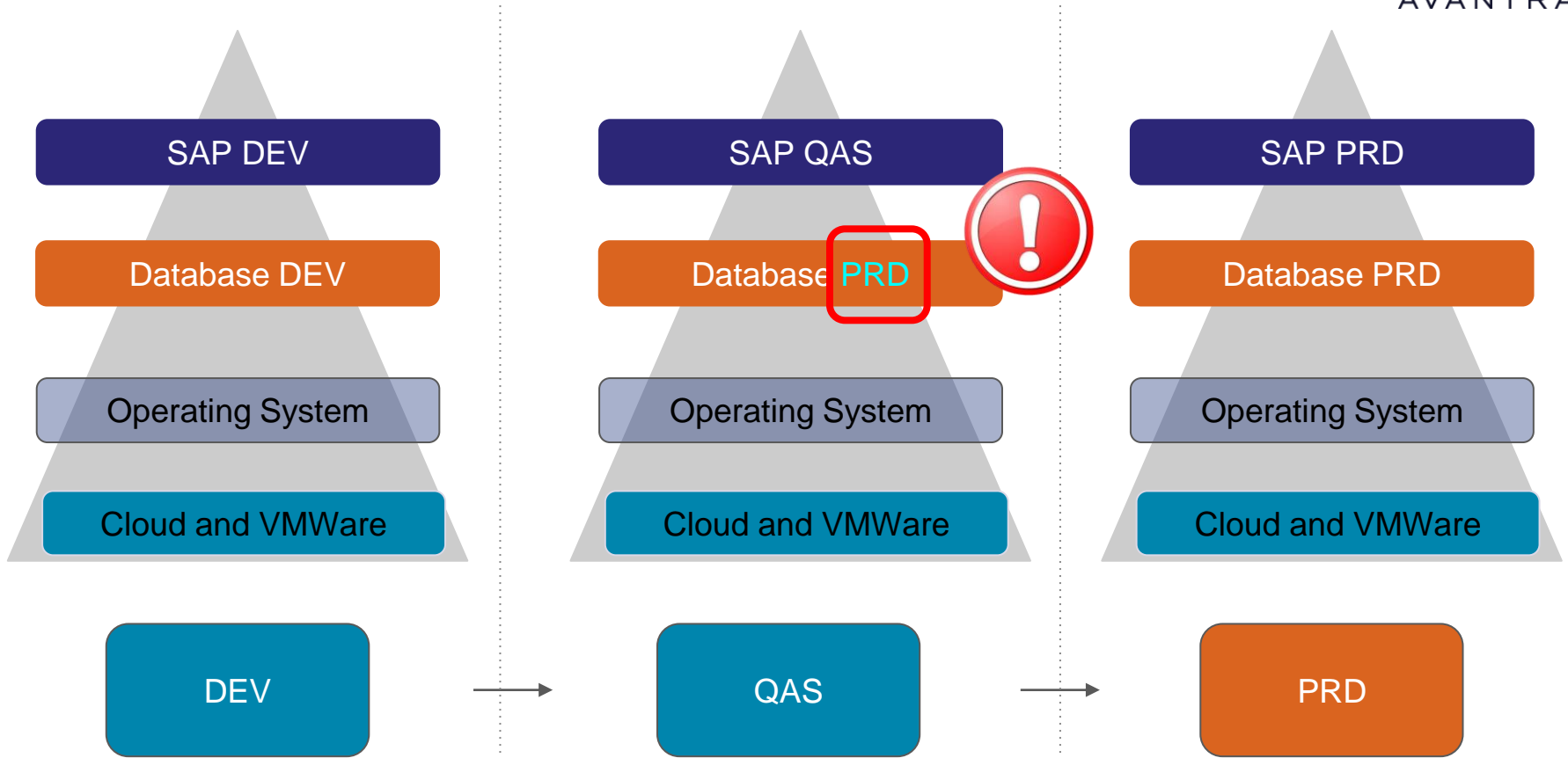
Refresh Example



Backup/Restore Method



Technical Stack Review



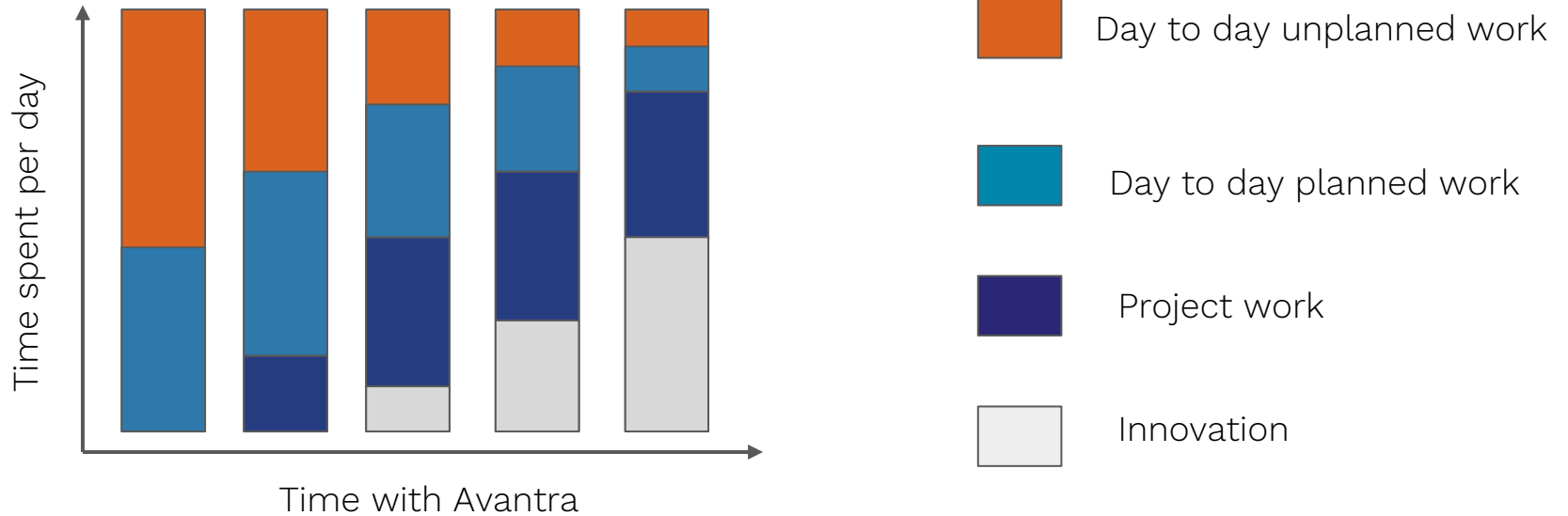
Benefits of Automatic Refreshes

- Drive consistency
- More frequent refreshes = better testing environments
- Expediate the timeline
 - ~1 week to 15 hours for large environment
 - Smaller environments still see value
- Minimize database sizes for testing environments

Automation platform

- Drive an innovative culture
- Reduce downtime
- Get ahead of business related issues
- Keep costs low
- Keep support teams focused with less interruptions
- Keep happy teams by minimizing off hours work

Driving an Innovative Culture



Designed to manage your SAP world



Operational Transparency

Customizable dashboards
Business process technical monitoring
Customizable reports
Notification escalation
Best practice provided out of the box



Actionable Insights

Intelligent alerts
Root-cause visibility
Predictive resource analysis
Consistent auditing & system governance
Agent-based deployment for deep insights



Full Stack Automation

Consistent and rapid deployments
Best-practice monitoring automation
System hardening
Cloud automation
Build your own custom checks & actions

71%

Reduction in manual daily
repetitive tasks

45%

Reduction in support requests after only one year with an automation-first approach



24x7

Zero unplanned downtime
to ensure your business is
always growing



Invista / Chemical Company

“We selected Avantra to manage our AWS and on-premise SAP systems. Avantra empowered us with a monitoring solution that keeps us informed through real-time alerts, resource utilization, and integrations with business processes inside our ERP systems.”

Company SAP Basis Lead



In the process of a migration to the cloud, the customer identified the need to manually scale that cloud as well as hybrid landscape monitoring and notifications. This was not available through other means.



Without scaling to match demand the customer would not have realized the true cost saving benefits from operating a managed hybrid cloud landscape.



Using Avantra, the customer could easily see how much cloud resource was expected to be used and adjust accordingly. They also deployed cloud scaling automation and have landscape wide (on-prem and cloud) monitoring with real time notifications.



Zack Morin

SVP Southeast Region

zack.morin@avantra.com

www.avantra.com



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