

Efficient DevOps with SAP Cloud Platform

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Boris is product manager at SAP in the *cloud and lifecycle management* area. He is responsible for DevOps and lifecycle management topics around SAP Cloud Platform.

Together with colleagues from other areas, he is forging the overall DevOps story for SAP. In addition, he has a broad experience with system provisioning topics and enterprise architecture. He is a regular speaker at SAP events, such as SAP TechEd.

Follow Boris on LinkedIn.



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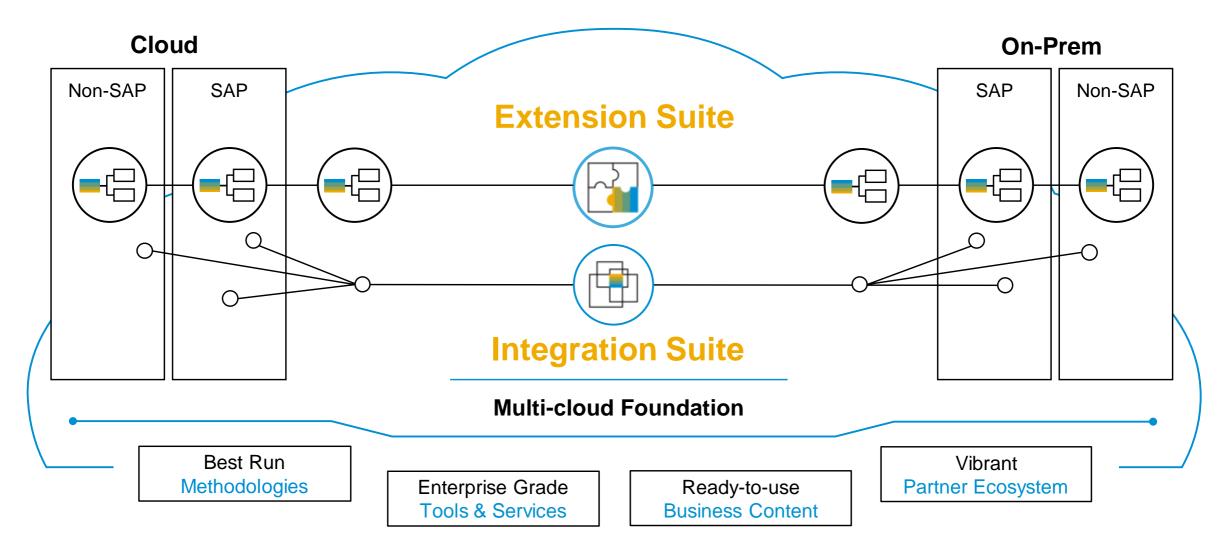
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SAP Cloud Platform – Elevate Your Enterprise Experience

Accelerate integrations. Simplify extensions. Expand business value.



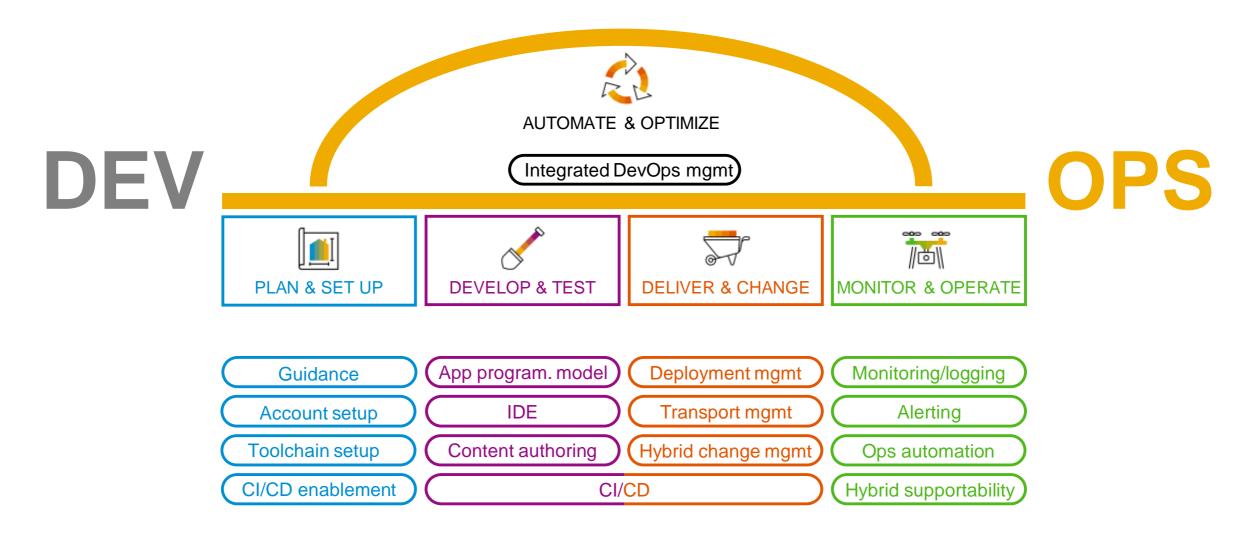


"A culture where people, regardless of title or background, work together to imagine, develop, deploy, and operate a system."

Definition by Ken Mugrage, ThoughtWorks
http://kenmugrage.com/post/my-new-definition-of-devops/

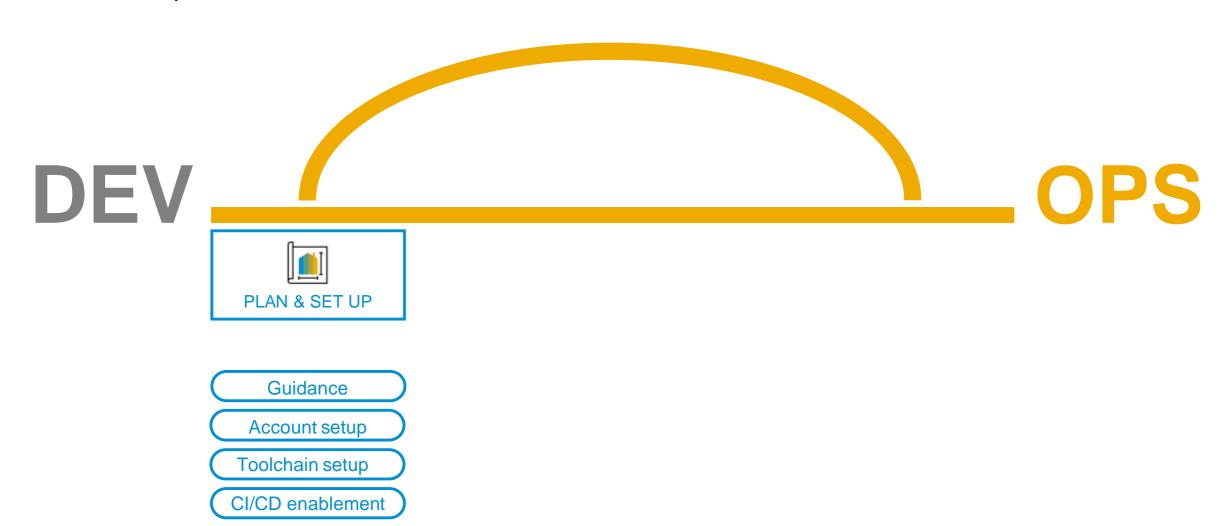
DevOps with SAP Cloud Platform

Categories and service portfolio



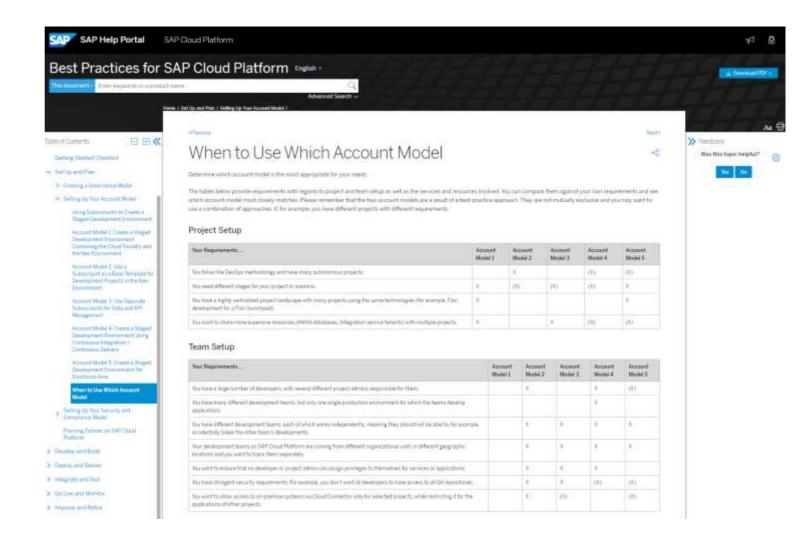
DevOps with SAP Cloud Platform

Plan & set up



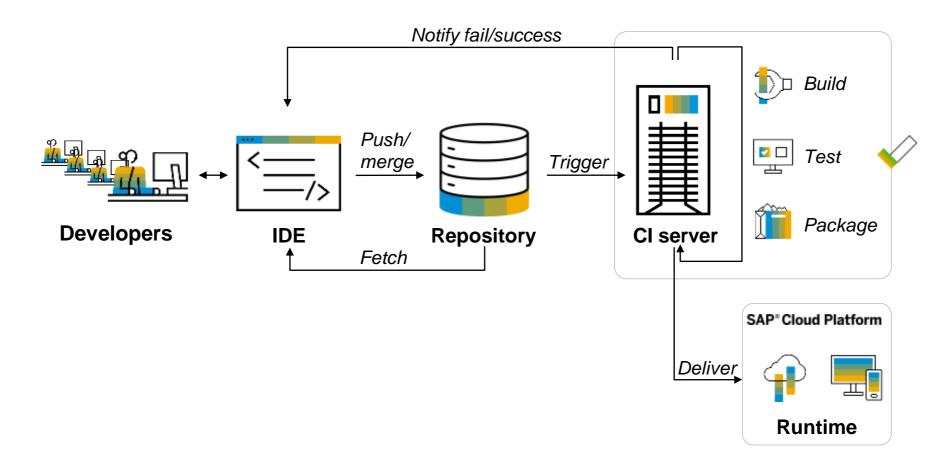
Available in **SAP Help Portal**

- Contains detailed planning section:
 - Governance model
 - Account model (with examples!)
 - Security and compliance model
- Covers further aspects around lifecycle management



How tools enable DevOps

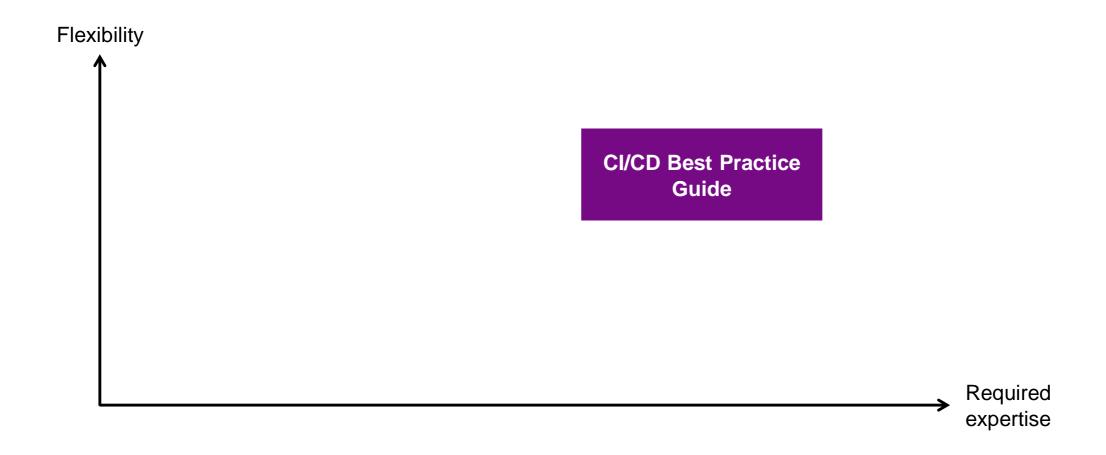
Example for automation as driver for DevOps



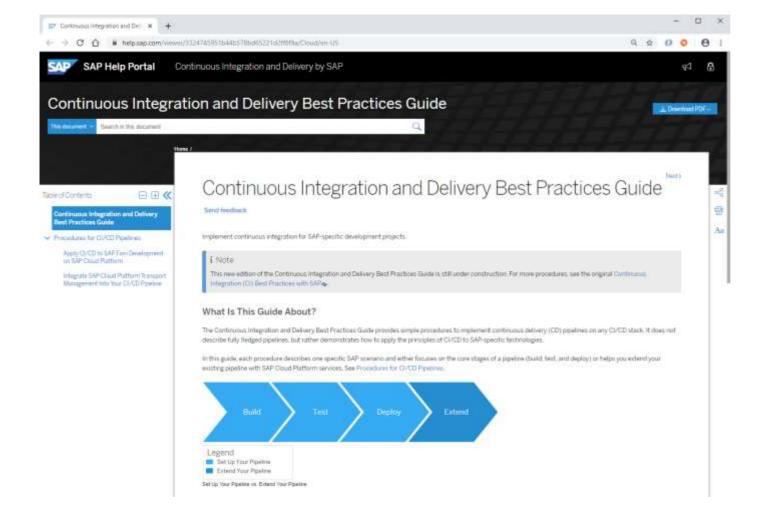
Continuous Integration and Delivery (CI/CD)

SAP offerings that ease applying CI/CD for your projects





Continuous Integration and Delivery Best Practices Guide

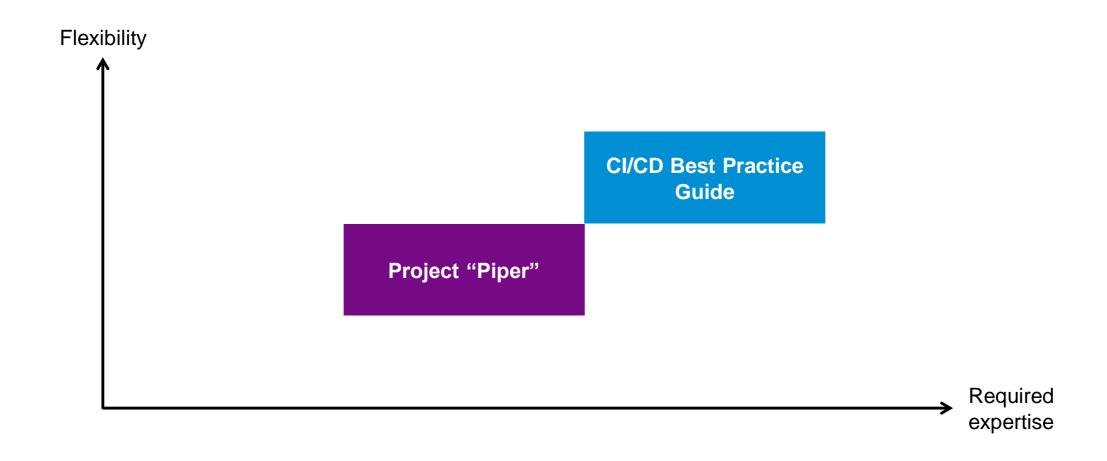




- Provides simple procedures to implement continuous delivery pipelines on any CI/CD stack
- Demonstrates how to apply principles of CI/CD to SAP-specific technology

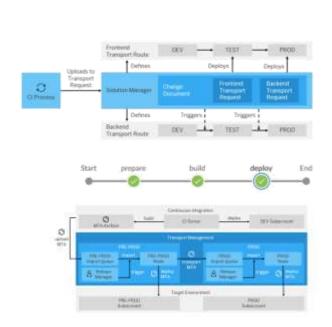
SAP offerings that ease applying CI/CD for your projects





Project "Piper"

CI/CD enablement

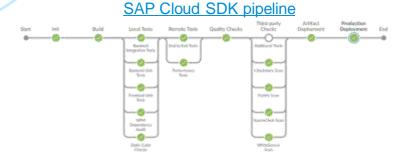


Typical scenarios

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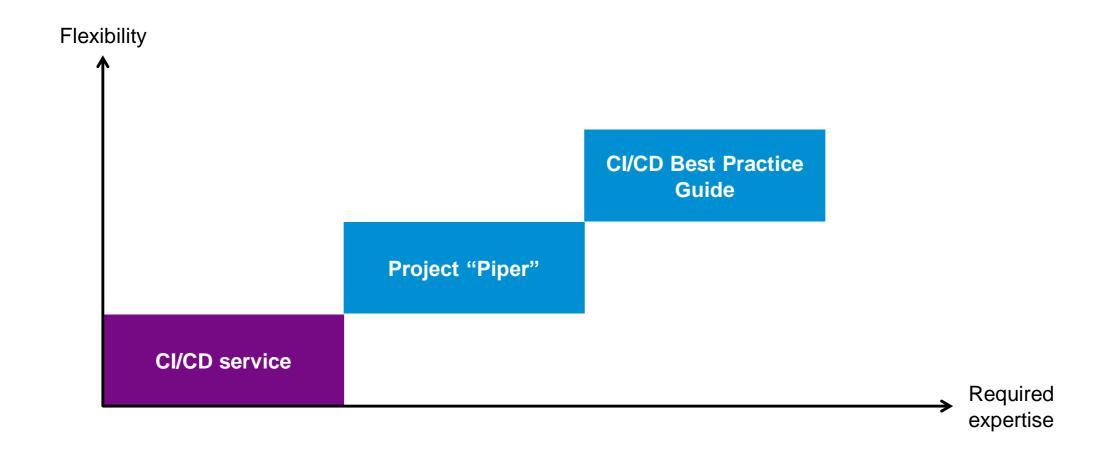
General purpose pipeline



Step library

SAP offerings that ease applying CI/CD for your projects

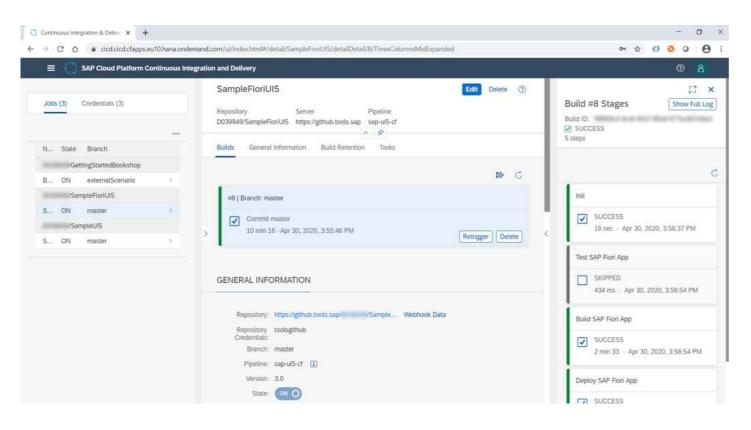




SAP Cloud Platform Continuous Integration and Delivery



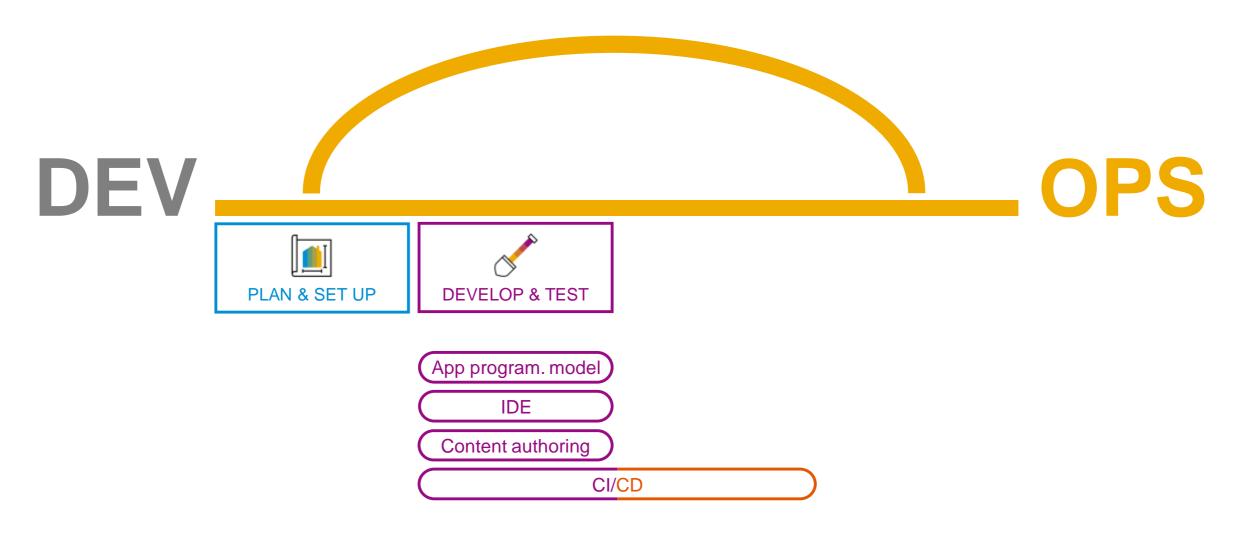
Configure and run predefined pipelines to automatically test, build, and deploy your code changes.



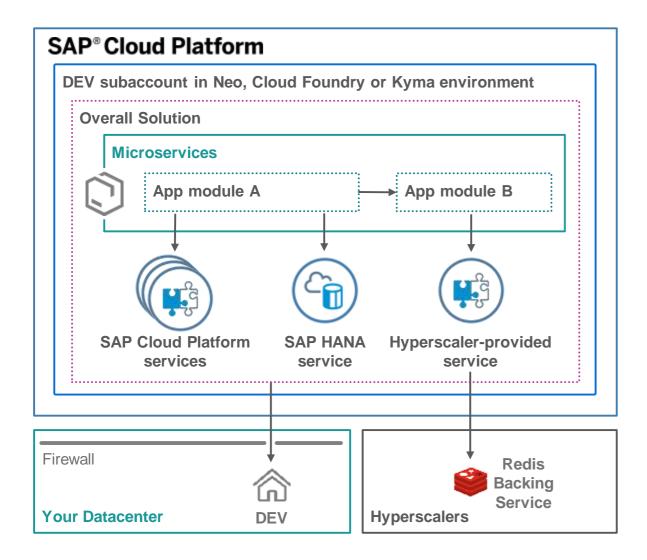
- Simple onboarding for SAPUI5 and cloud application programming model (CAP) development projects
- No customer Cl infrastructure required
- No in-depth CI/CD knowledge required
- Well-integrated in tooling ecosystem for SAP Cloud Platform

DevOps with SAP Cloud Platform

Develop & test

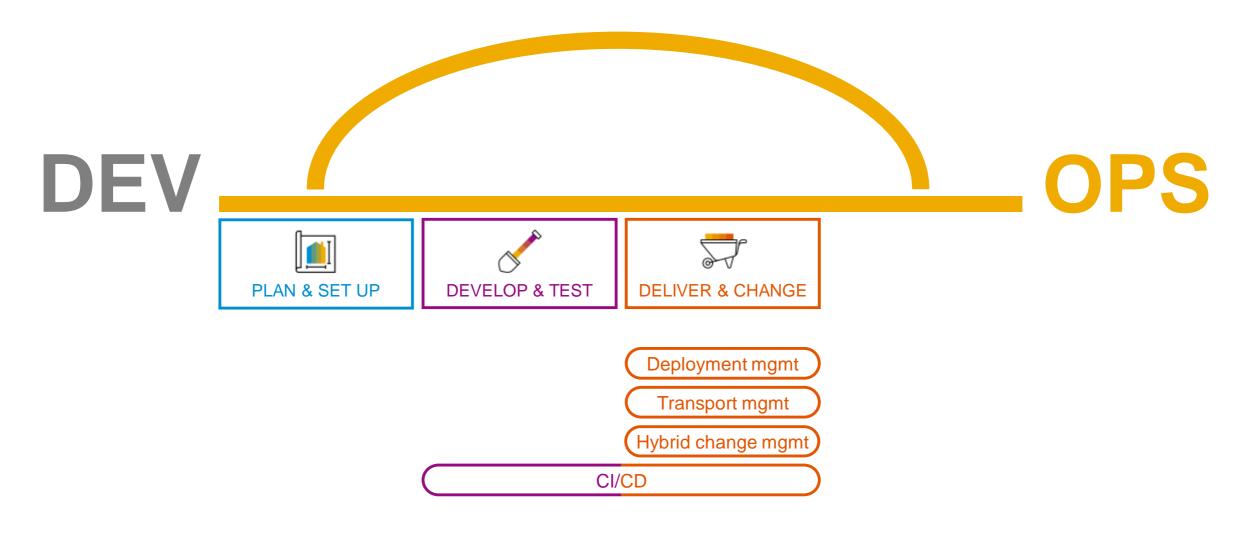


Example app

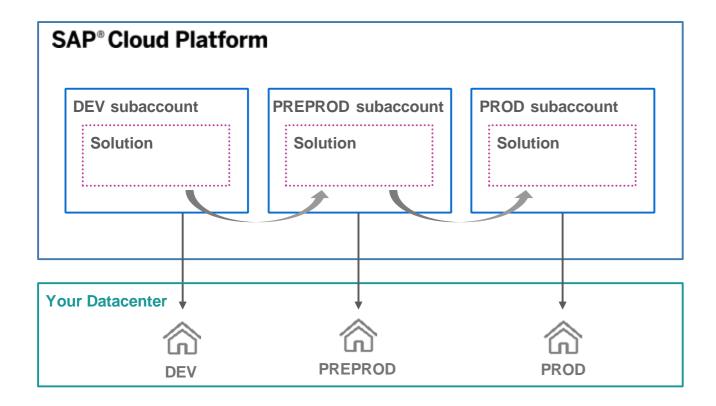


DevOps with SAP Cloud Platform

Delivery & change



Example app



Deliver your changes toward production







Continuous Delivery

- Mainly source-code-based development
- Typically fully automated



Transport Management

- Apply standardized, enterprise-ready change management process
- Add transparency on audit trail of changes
- Establish separation of concerns
- Option for synchronizing transports with on-premise artifacts

SAP Cloud Platform Transport Management

- Cloud-centric solution desired
- Transport of cloud development and application content (also beyond MTA)

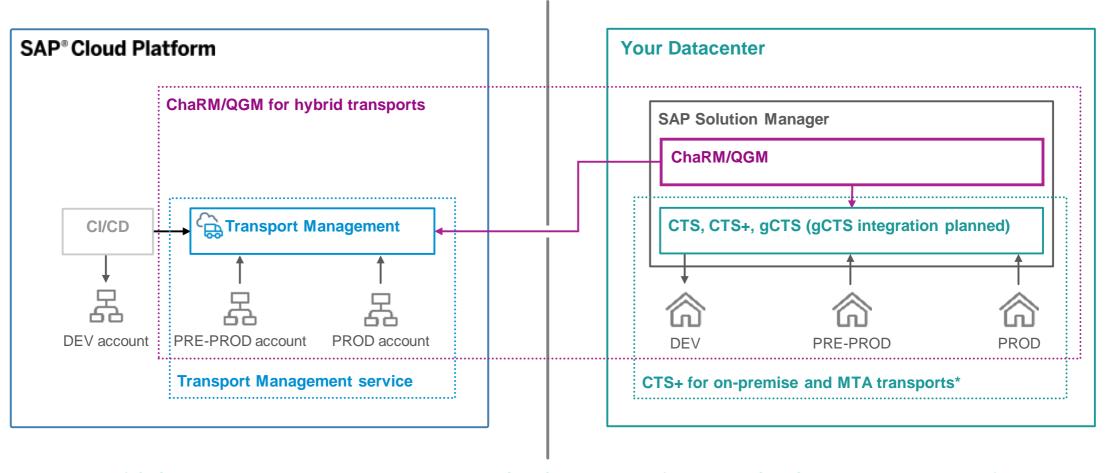
CTS+

- ABAP-centric landscape
- Transport of "Multitarget Application Archive (MTA)"based cloud content only (in addition to on-premise content)

Deliver applications with transport management

Best practice and way forward for hybrid scenarios



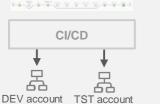


*) CTS+ can also handle MTA-based transports on SAP Cloud Platform (such as for SAP Cloud Platform Integration)

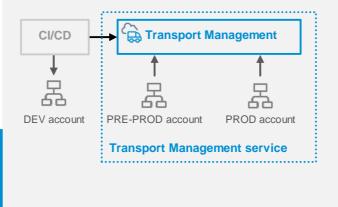
Deliver your changes toward production

Example for evolution of delivery approaches for a project

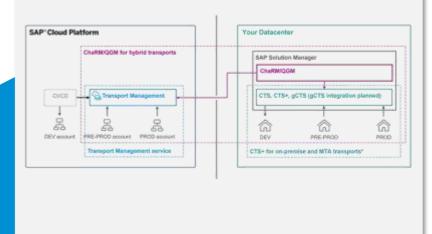
- Hybrid interdependencies come up or get more important, so that you want to control them by synchronizing on-premise changes with SAP CP development
- 2 You release your project and want to have more control of your prod environment
- You start your project with a pipeline



Consider project "Piper" and Continuous Integration and Delivery service to set up your environment quickly



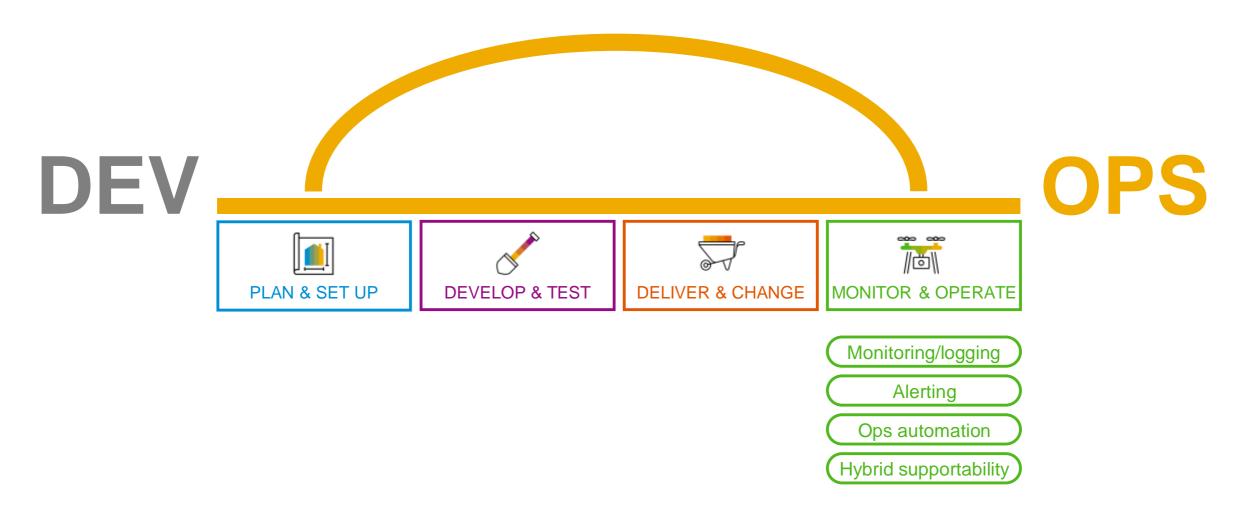
Configure **automated hand-over** of release candidates from pipeline to transport mgmt



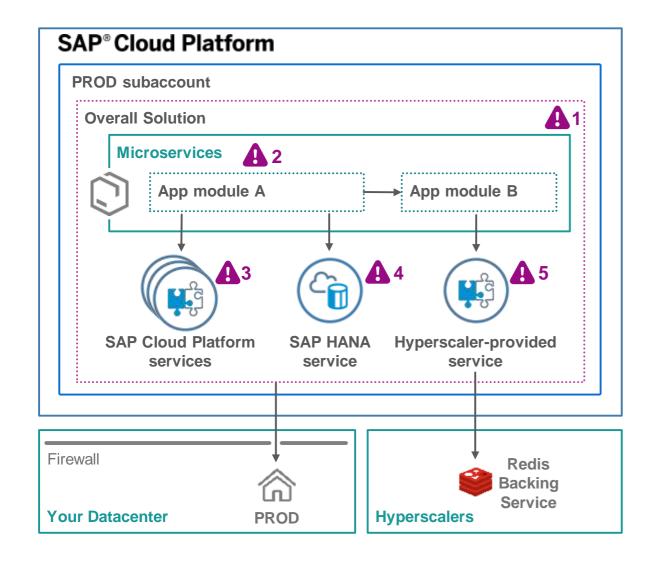
Integrate transport management into change management

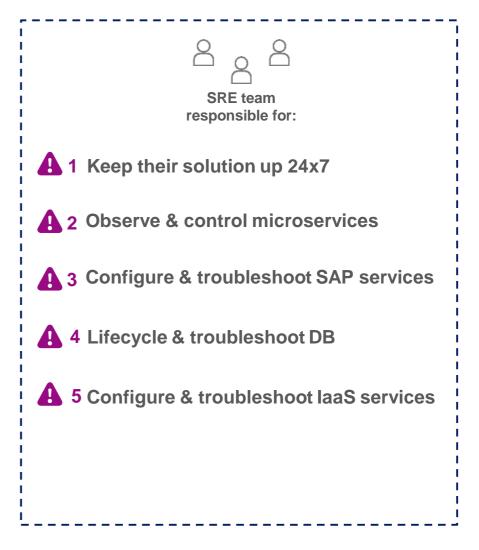
DevOps with SAP Cloud Platform

Monitor & operate

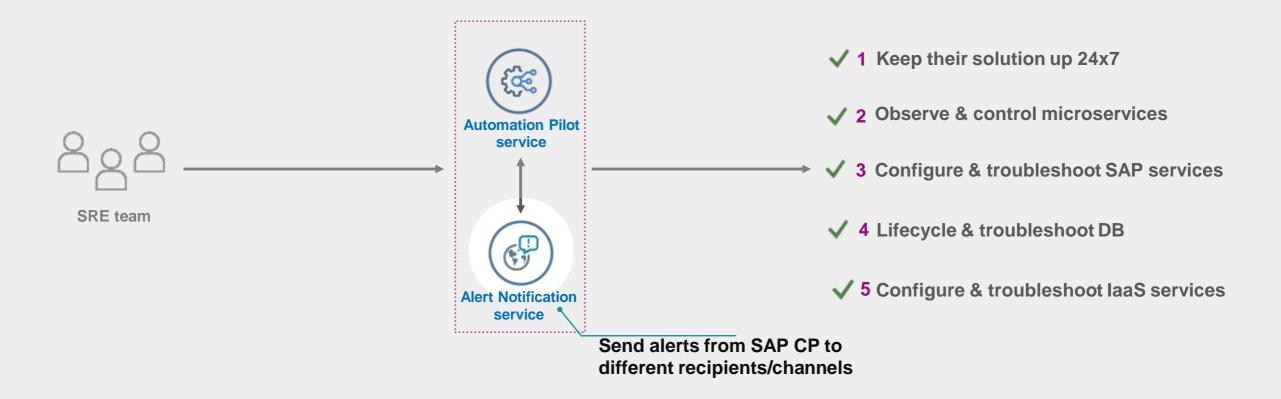


Cloud-native problem space for Site Reliability Engineering (SRE)

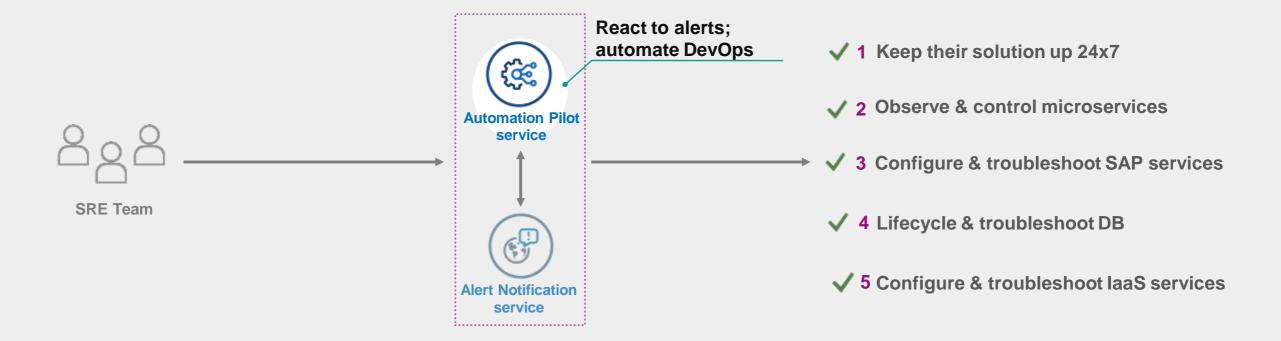




SAP Cloud Platform Alert Notification

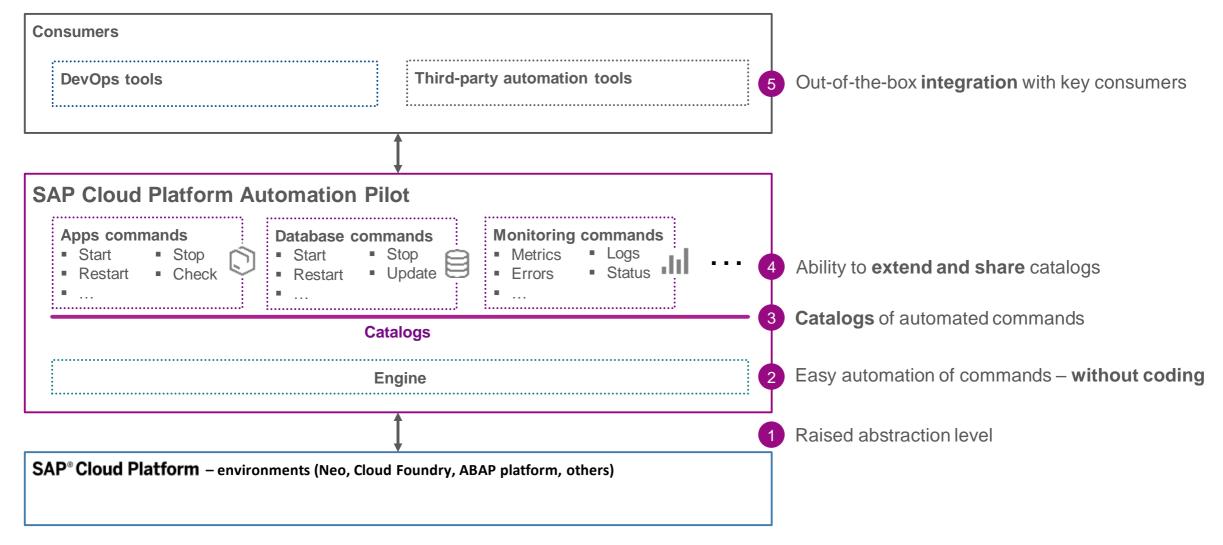


SAP Cloud Platform Automation Pilot



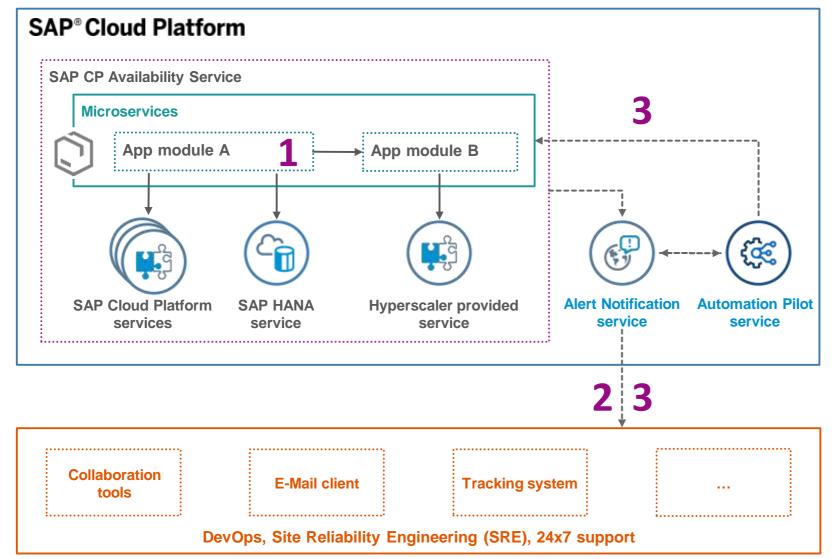
SAP Cloud Platform Automation Pilot





Example: complement alerts with automation





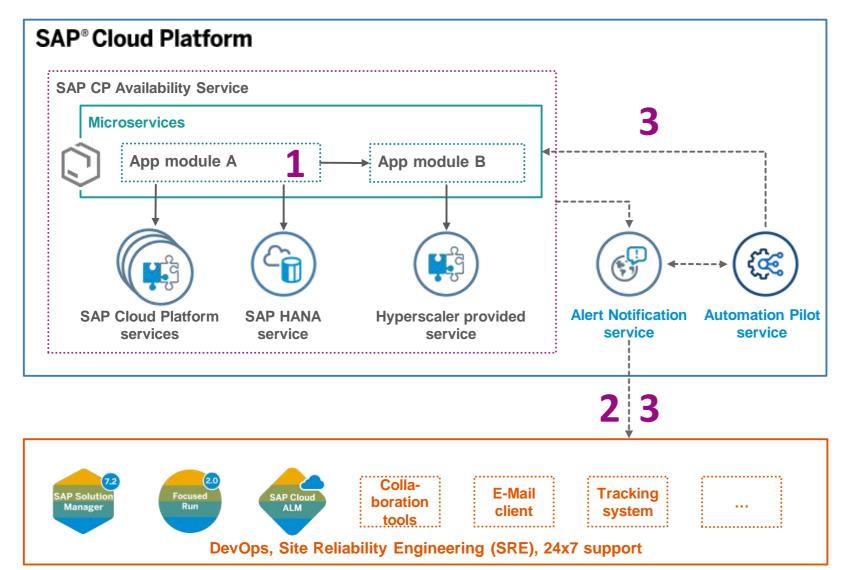


- **1** Event (e.g. service stops working)
- 2 Notify + trigger
- 3 Recover service + notify



Example: complement alerts with automation







- **1** Event (e.g. service stops working)
- 2 Notify + trigger
- 3 Recover service + notify



Monitor and operate your hybrid application

Hybrid supportability offerings



Integration Monitoring

Ensure reliable data exchange between SAP on-premise and cloud



Trace Analysis

Trace performance of SAP Cloud Platform apps, based on exposed statistics







User Monitoring

Ensure availability and performance of SAP Cloud scenarios from customer on-premise locations



Exception Management

Forward business-critical exceptions from SAP Cloud to on-premise operations

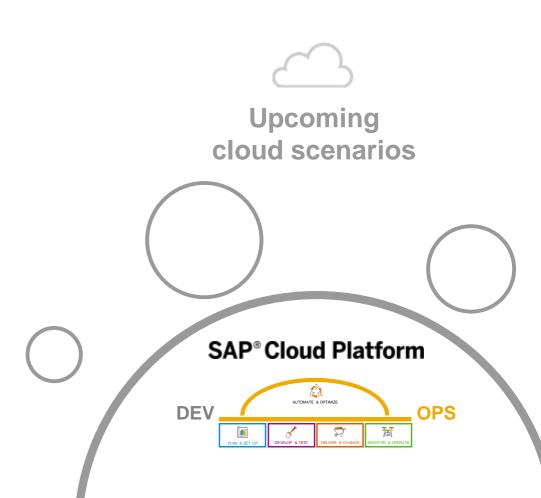


Hybrid SAP operations



Approach to extend towards hybrid operations from on-premise center of gravity





Hybrid SAP operations

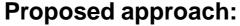


Approach to extend towards hybrid operations from on-premise center of gravity



Existing on-premise ops

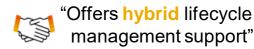




Smooth the transition by extending existing on-premise ops processes with cloud aspects

- Retaining center of gravity around on-premise
- Optionally with defined hand-over from cloudnative processes







Hybrid SAP operations



Exemplary options to extend towards hybrid operations









SAP® Cloud Platform

Proposed approach:

Smooth the transition by extending existing on-premise ops processes with cloud aspects

- Retaining center of gravity around on-premise
- Optionally with defined hand-over from cloudnative processes



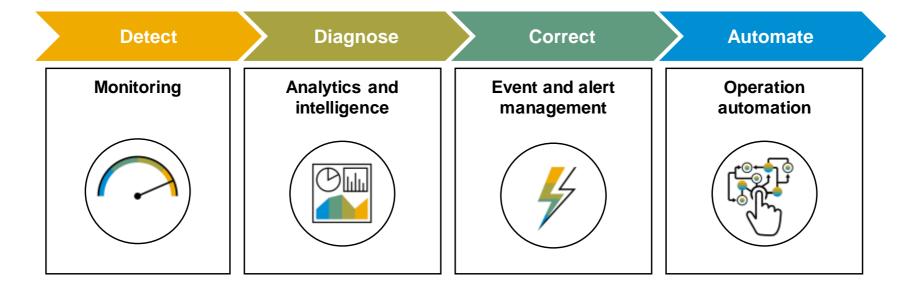
 Use transport mgmt – to integrate SAP CP into change mgmt, optionally with defined hand-over from CI/CD pipelines



- Forward SAP CP alerts towards SAP Solution Manager
- No-coding approach for technical ops automation
- Hybrid supportability

SAP Cloud ALM for operations



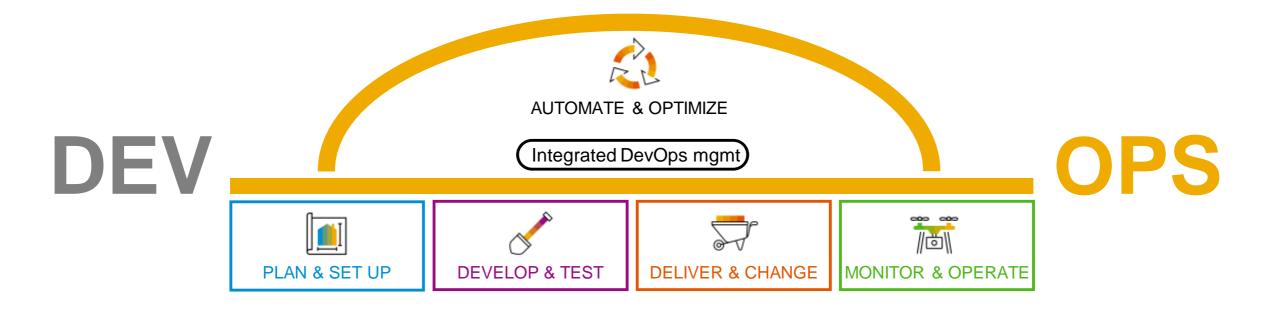






DevOps with SAP Cloud Platform

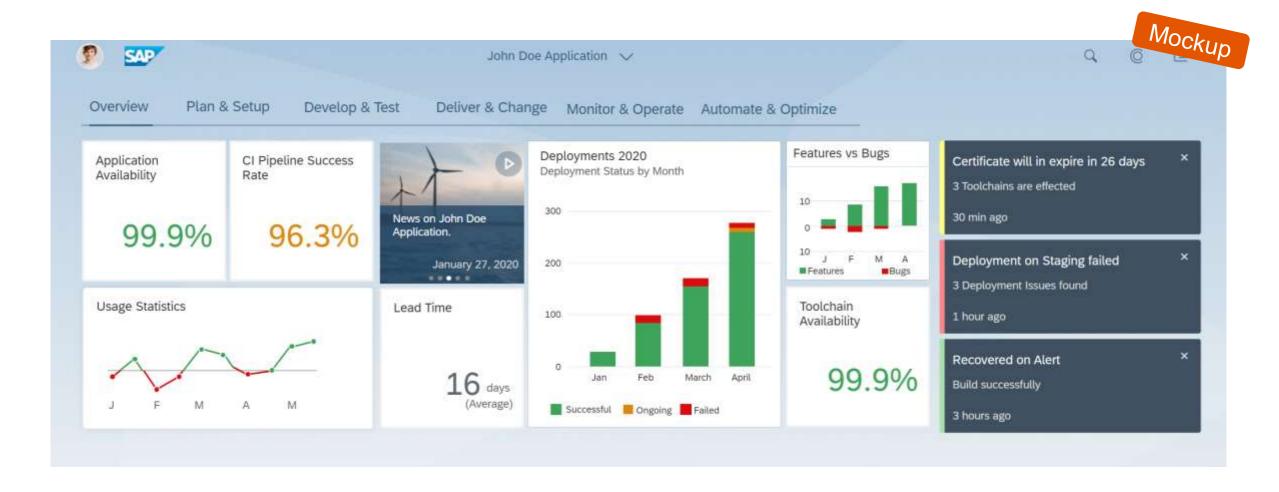
Automate & optimize





Automate & operate

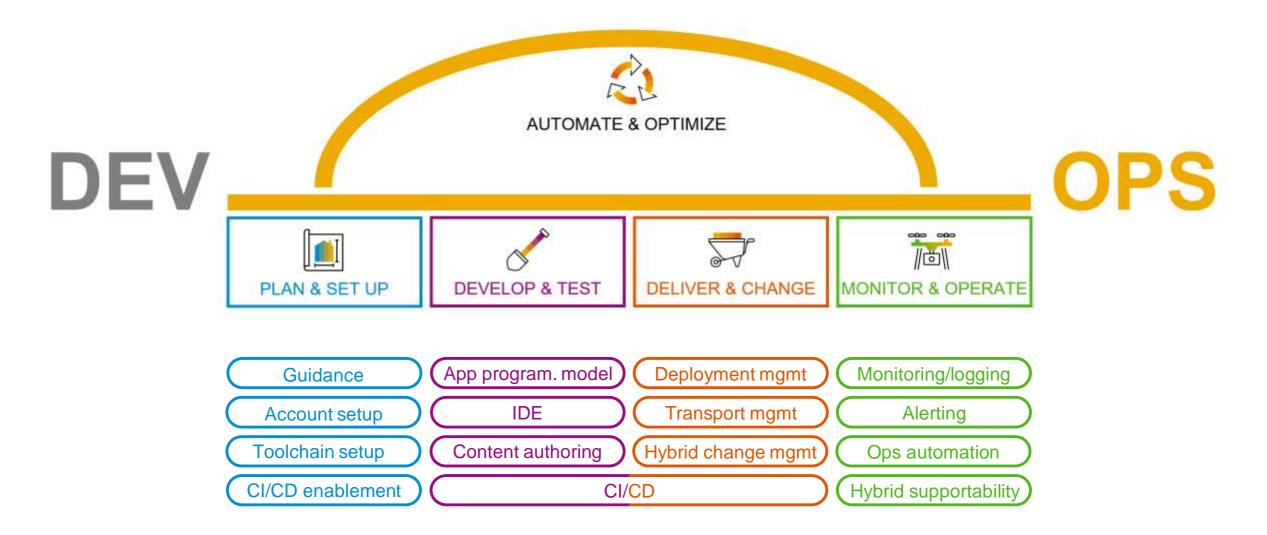
Preview at planned service for integrated DevOps management



Summary

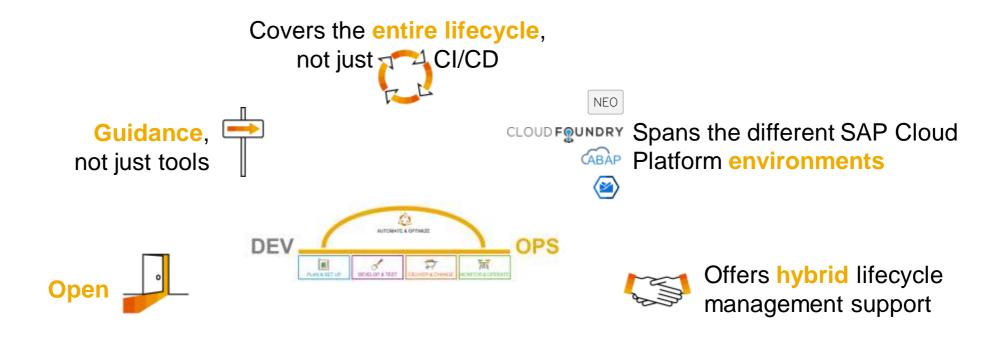


DevOps with SAP



DevOps with SAP Cloud Platform

Corner stones of our offering















Call to action



Learn more about DevOps with SAP:

- DevOps SAP Community page
- gCTS documentation page and central SAP Note 2821718
- SAP Help Portal page about DevOps with SAP Cloud Platform
- Blog post series around efficient DevOps with SAP Cloud Platform
- <u>Learning Journey DevOps with SAP Cloud Platform</u>
- Best Practices for SAP Cloud Platform guide



Try out our services on SAP Cloud Platform:

- Set up our services in the trial environment for <u>SAP Cloud Platform</u>
- Run our missions in SAP Cloud Platform Discovery Center (such as for <u>transport management</u>)



Contribute to our **SAP Continuous Influence session**

SAP Community Call series









SAP Continuous Influence

Are you missing any SAP Cloud Platform features in the area of platform foundation?

Contribute to our SAP Continuous Influence session: https://influence.sap.com/sap/ino/#campaign/2277

- Browse through existing improvement requests submitted by other customers and partners & vote for them
- Submit own requests
- Requests that reach the vote threshold will be assessed in the next review cycle



Available categories in the SAP Cloud Platform – Platform Foundation session:

- Multi-cloud
- Security services
- CI/CD
- Lifecycle management

Thank you.

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