

Effortlessly Deploying a PI System in AWS

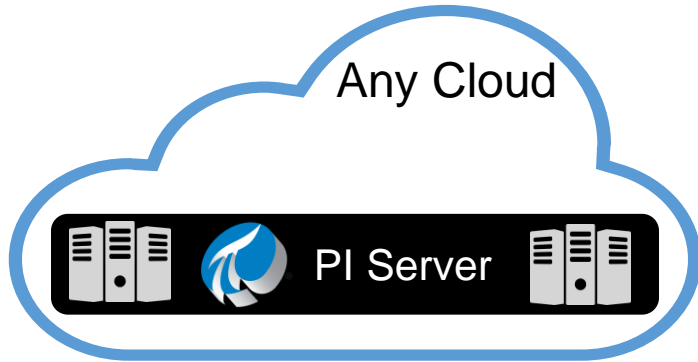
Valentin Ivanov
Cloud Architect



Agenda

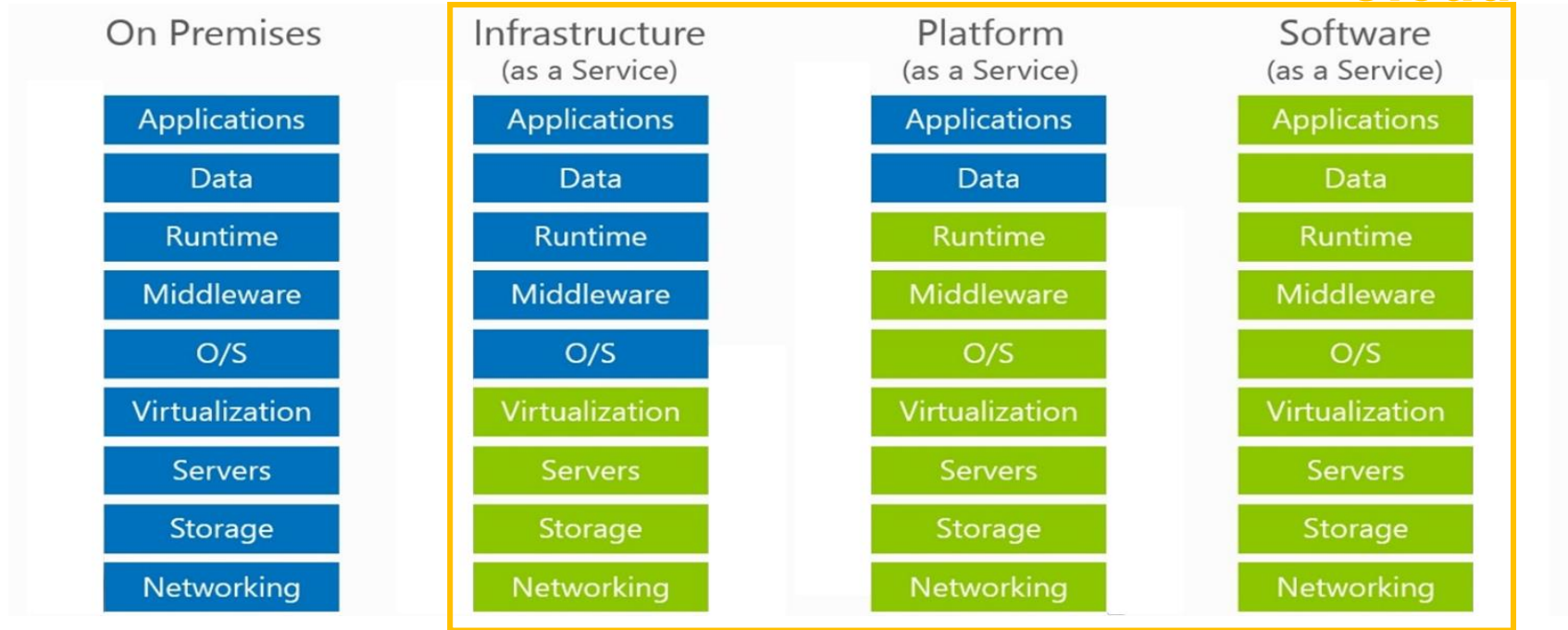
- Introduction
- Concepts
- Demo Flow
- Demo
- Conclusion
- Q and A / Discussion

Introduction



How to run your app?

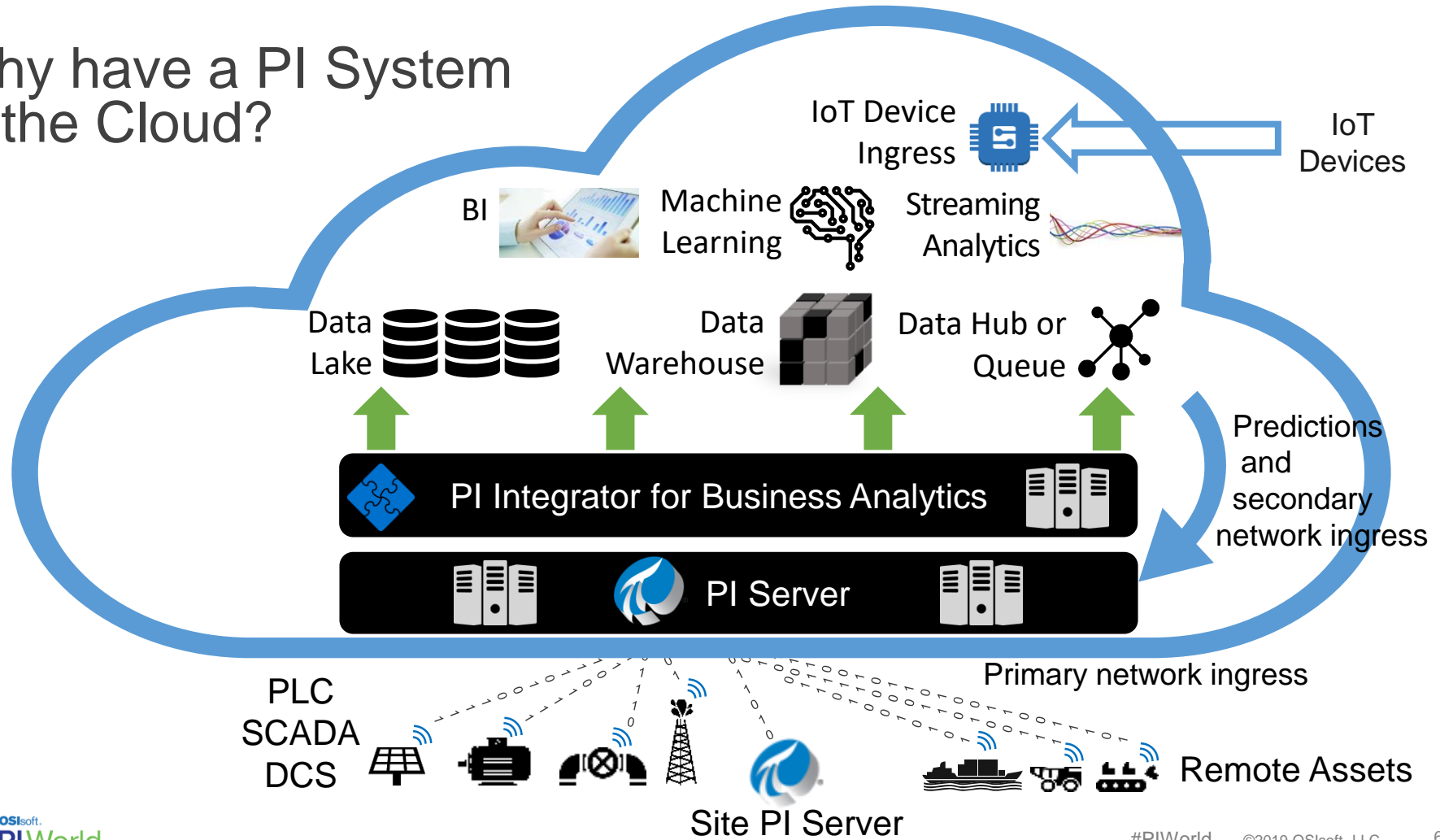
Cloud



Customer Manages

Managed by Vendor

Why have a PI System in the Cloud?

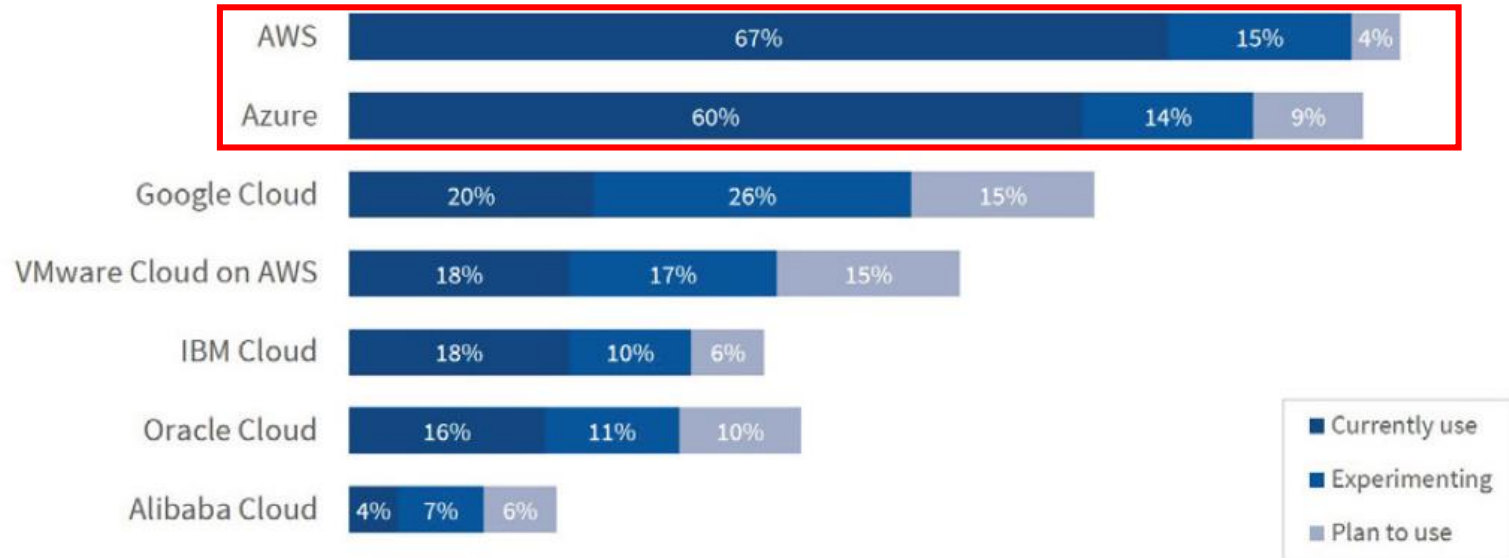


Cloud deployment options

Manual	Automated – Infrastructure as Code
<p>Pros</p> <ul style="list-style-type: none">• Intuitive• Fast to get started <p>Cons</p> <ul style="list-style-type: none">• Not easily repeatable• Steps can be missed or reordered• Not scalable	<p>Cons</p> <ul style="list-style-type: none">• Steeper learning curve• Initial time investment <p>Pros</p> <ul style="list-style-type: none">• Easily repeatable• Anyone can pick up and go• Scalable <p data-bbox="1097 674 1673 767">Recommended</p>

Public Cloud Adoption - Enterprise

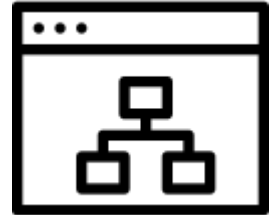
% of Respondents



Source: RightScale 2019 State of the Cloud Report from Flexera

Concepts

Infrastructure as code (IaC)



Desired State Configuration (DSC)



Demo flow

Stage 1

- Review Architecture
- Build VM using Templates and DSC
- Dive into CloudFormation Templates

Stage 2

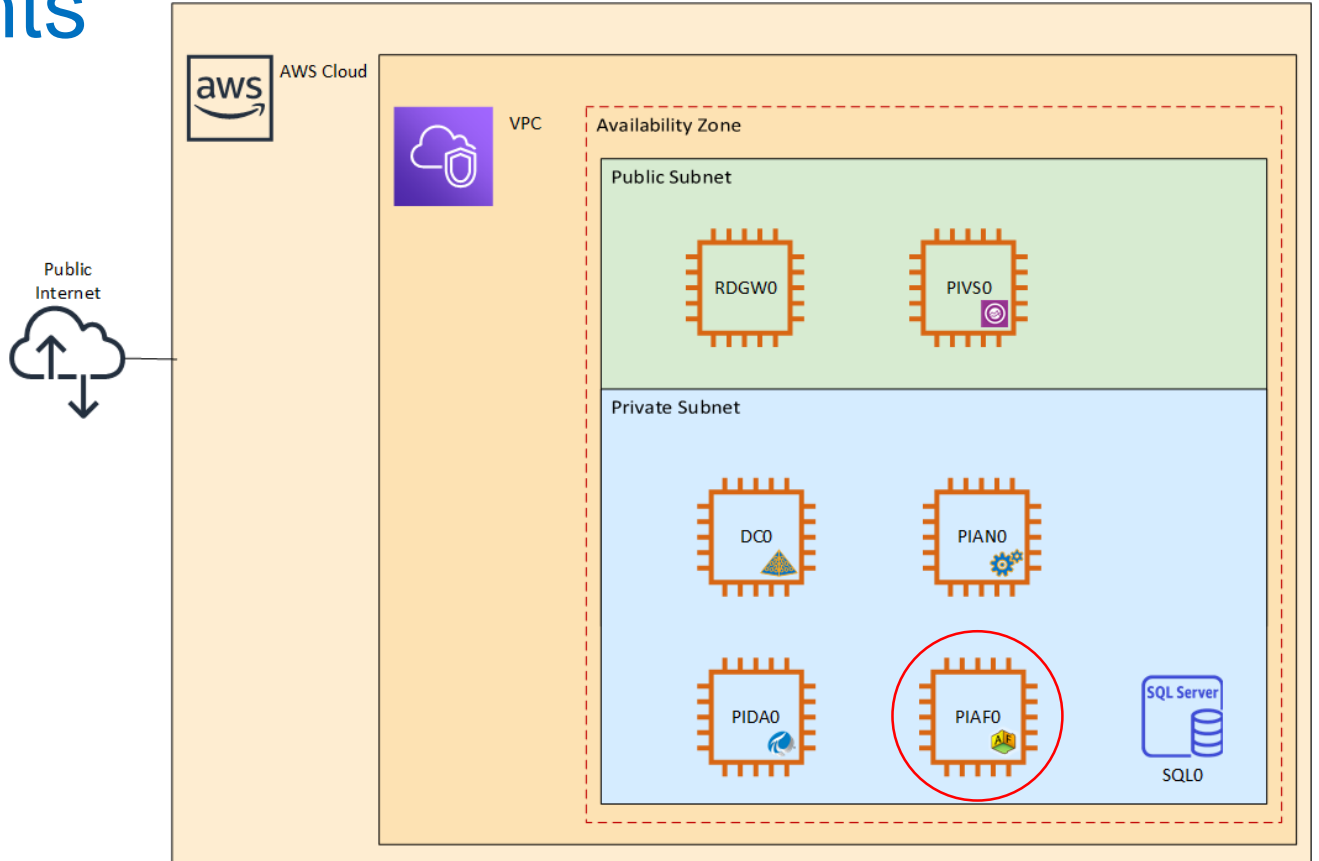
- Delete a VM
- Modify the Template
- Re-deploy VM from snapshot

Production not supported

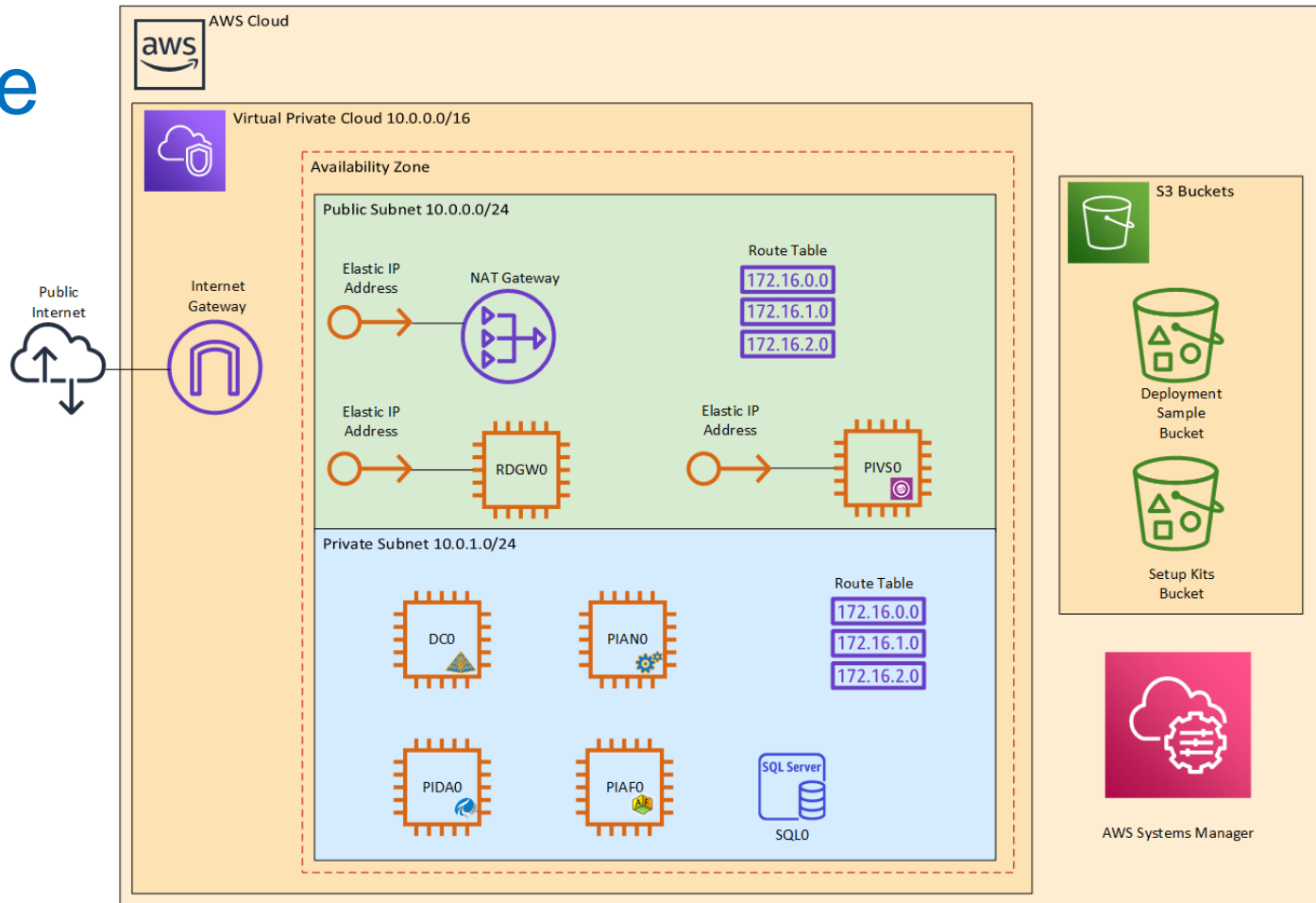
DEMO

Azure & AWS Deployment

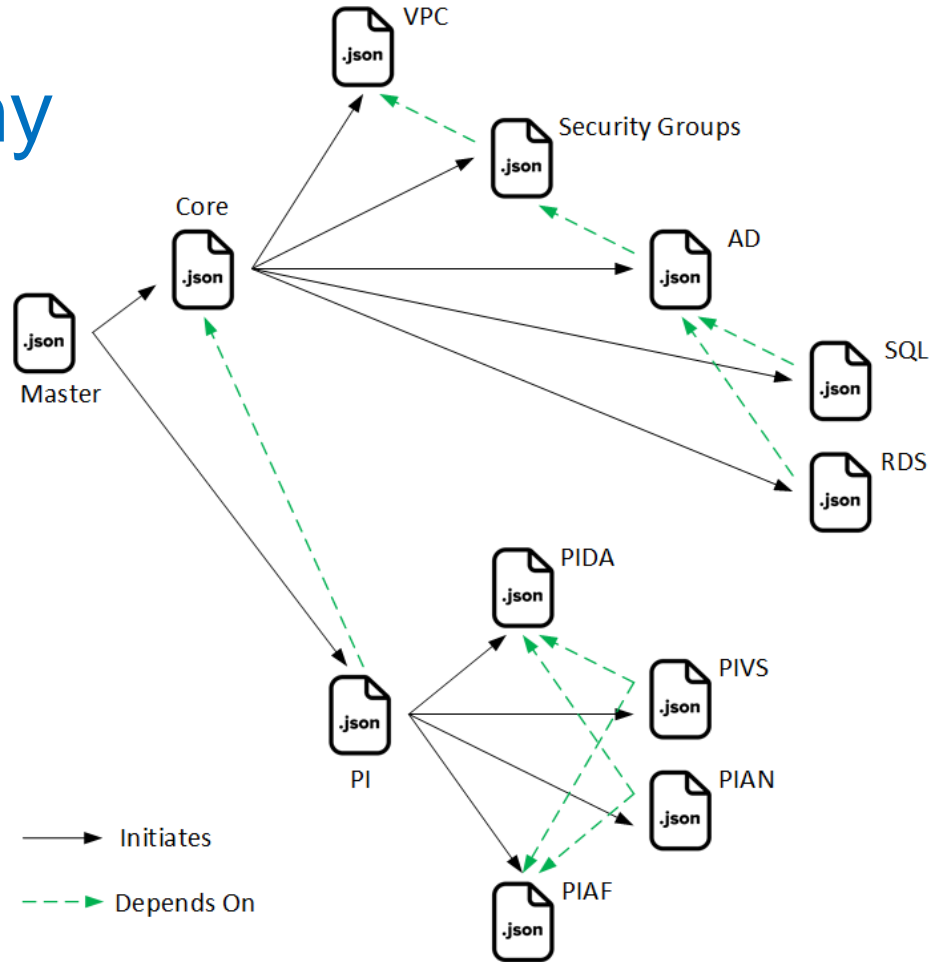
Components



Architecture



Template Hierarchy



AWS CloudFormation

```
{
  "AWSTemplateFormatVersion" : "",
  "Description" : "",
  "Metadata" : {  },
  "Parameters" : {  },
  "Mappings" : {  },
  "Conditions" : {  },
  "Transform" : {  },
  "Resources" : {  },
  "Outputs" : {  }
}
```

Conclusion

- Automated deployment is more scalable and less risky
- Templates can deploy an entire environment
- Can be easily modified to meet other needs

Contact



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Questions?

Please wait for
the **microphone**

State your
name & company



Please remember to...

Complete Survey!

Navigate to this session in
mobile agenda for survey

An advertisement for the OSISOFT PIWorld app. The background is a dark blue gradient with a subtle pattern. On the left, the text "TO DOWNLOAD APP, SEARCH OSISOFT" is written in white, bold, sans-serif font. Below this text are two black buttons: "Download on the App Store" with the Apple logo and "GET IT ON Google Play" with the Google Play logo. On the right, a smartphone is shown vertically, displaying the app's logo on its screen. The logo consists of a white stylized atom symbol above the text "OSISOFT PIWorld" in white.

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 TAPADH LEIBH 고맙습니다
 БАЯРЛАЛАА MISAOTRA ANAO
 DZIĘKUJĘ CI NGIYABONGA TEŞEKKÜR EDERIM GRACIES OBRIGADO شكرا SALAMAT
 DANKON TANK TAPADH LEAT
 KÖSZÖNÖM DANKIE TERIMA KASIH GRACIES
 СПАСИБО МУЛТUMESC
 PAKMET CIZGE HVALA FAAFETAI
 GO RAIBH MAITH AGAT ESKERRIK ASKO
 БЛАГОДАРЯ GRACIAS HVALA ХВАЛА ВАМ
 TI БЛАГОДАРАМ TEŞEKKÜR EDERIM
 TAK DANKE MAHADSANID DANK JE EΥΧΑΡΙΣΤΩ GRATIAS TIBI GRAZIE
 АČIŪ SALAMAT MAHALO IĀ 'ŌE TAKK SKALDU HA DI OU MÈSI
 РАҢМАТ MERCI GRAZZI ПAKKA PĒR ありがとうございました ДЗЯКУЙ
 HATUR NUHUN PAXMAT САҒА ǃAKUJEM MATUR NUWUN
 СẢM ƠN BẠN UA TSAUG RAU KOJ
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