



TechShift: Migrating and Replatforming Your Software on AWS (Level 200)

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ISV Adoption of SaaS is growing

"Virtually all enterprise software vendors are shifting to a SaaS-first innovation and delivery model." - IDC (2017)

"By 2020 ... over half of all product revenues in CRM, commerce servers, ePurchasing, and other process apps will come from SaaS subscriptions" - Forrester 2016

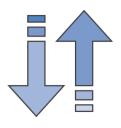




ISV Adoption of SaaS is growing



Customer demand



Increased agility



Improved operational efficiency



Lower cost, increased margins



Expanded market and global reach

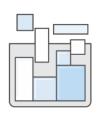




SaaS on AWS: Transformation Strategies



New product
Target a new market
or segment and build
your SaaS
foundation



Refactor
Migrate existing
solution



Hybrid
Run data center and
cloud in parallel

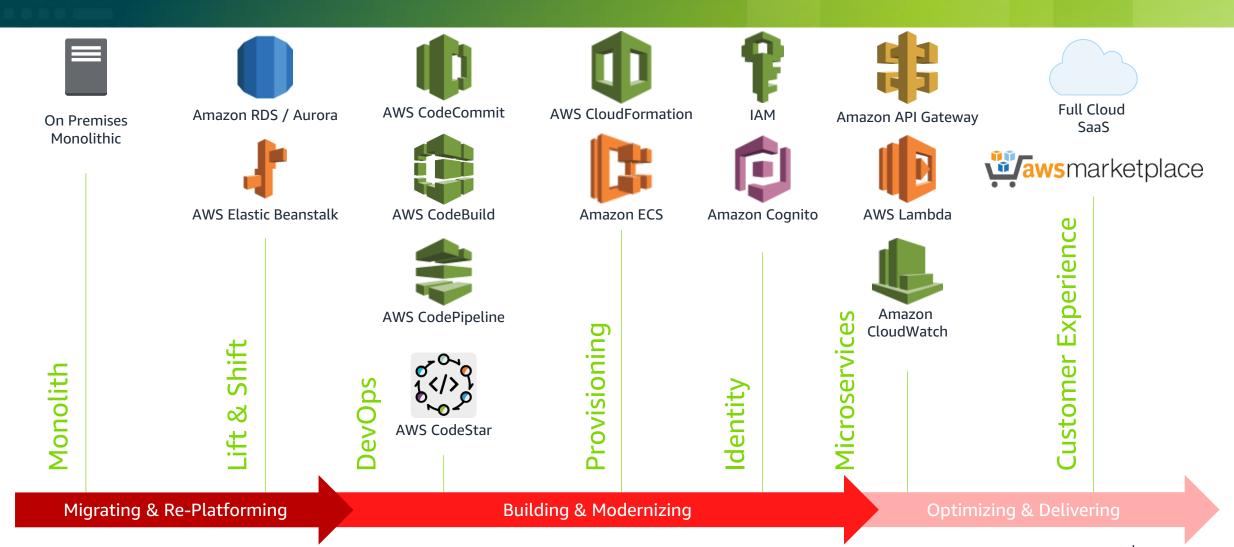


Optimize
Update and simplify
SaaS architecture for
better performance





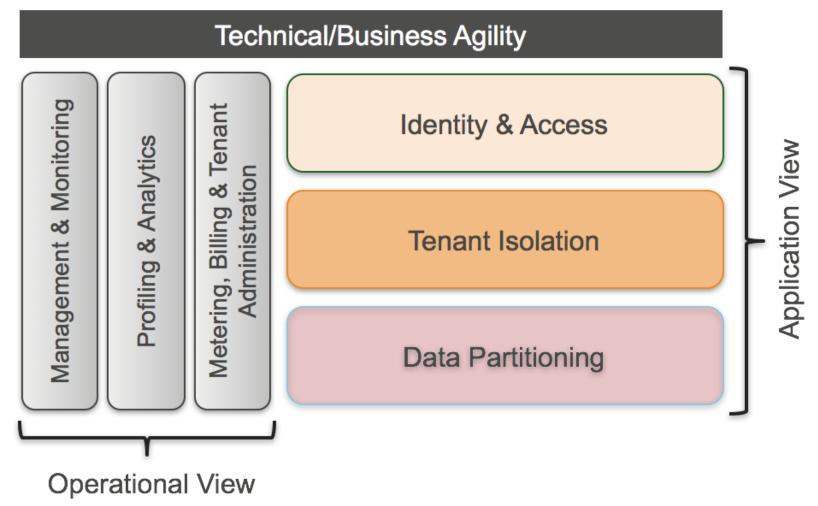
Migration Journey with AWS







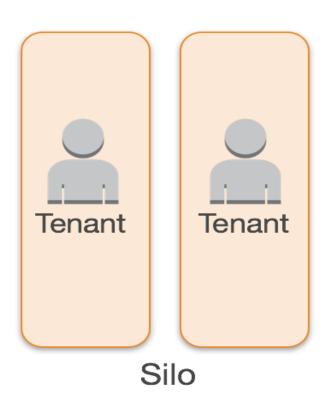
Typical SaaS Reference Architecture

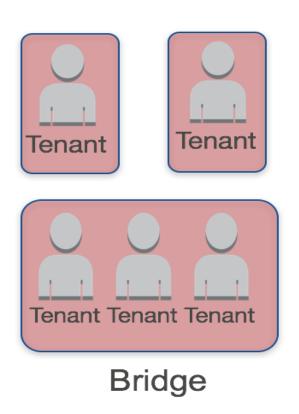


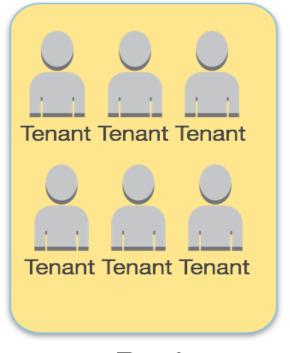




SaaS... Platform Tenancy Options





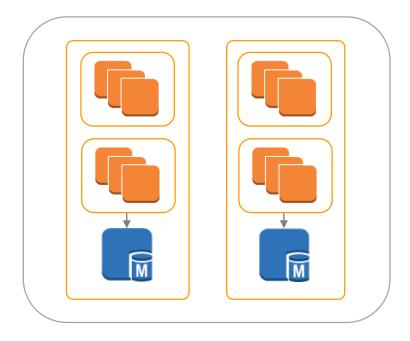




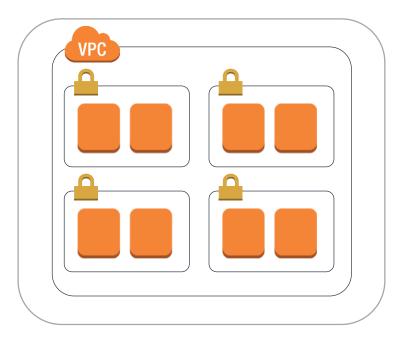




Tenant Isolation & choosing AWS deployment model



Full Stack Isolation



Network Isolation

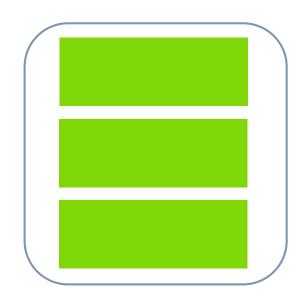


Layered Isolation



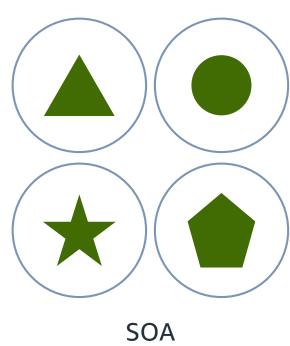


Transforming Application – Minimally invasive approach

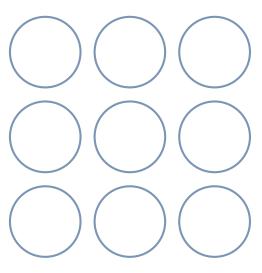




3 Tier App On Premises



SOA Hybrid Java



Microservices Cloud Polyglot





Application Migration

PandaCRM is 3 tier Java Application.

- Migration strategy: Re-Host (Like for Like)
- Two options for the Landing Zone Design:-
 - **DOPTION 1:** Migrate to SELF managed services.
 - **OPTION 2:** Migrate to AWS managed services.











Lets follow a 3 Step process...

Landing Zone

Platform Tenancy Options

VPC and Networking

VPN/Direct Connect

Stack Provisioning



Application Migration

Application Re-packaging Application Deployment



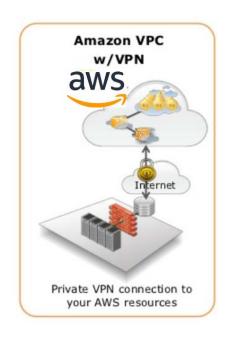
Database Migration

Database Migration Service Configuration Replication Task





Step 1: Setup Landing Zone





VPN or AWS Direct Connect?







Security & Compliance



Operating Model



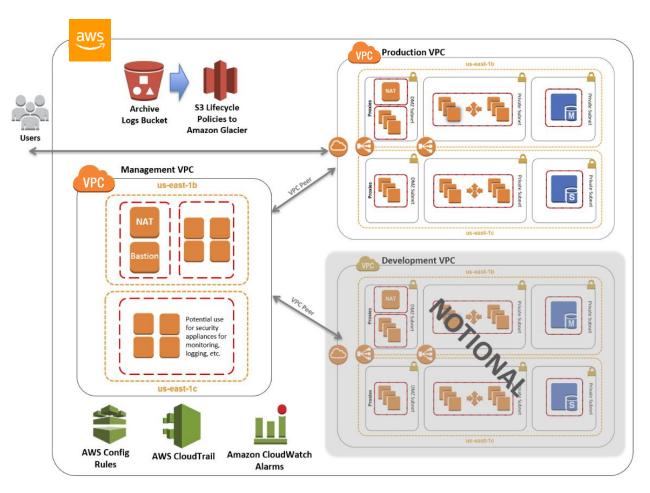
Governance





AWS Quick Starts

Standardized Architecture for NIST on AWS



AWS Multiple Account Security Strategy

AWS re:Invent 2017 sessions:

- ARC325_Managing Multiple AWS Accounts at Scale
- Architecting Security and Governance
 Across a Multi-Account Strategy (SID331)

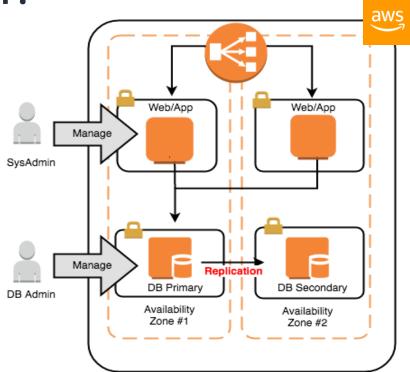




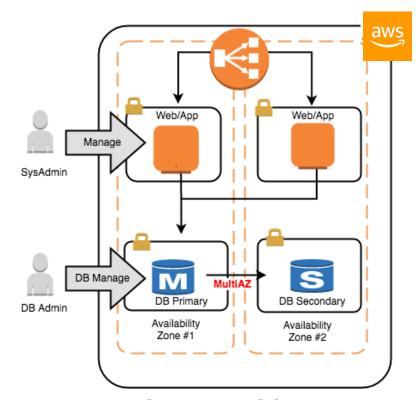
Step 2: Migrate to SELF Managed Services

AWS Services: Only Amazon EC2 or Amazon EC2 and Amazon RDS

Design:



Only EC2 Architecture



EC2 and RDS Architecture

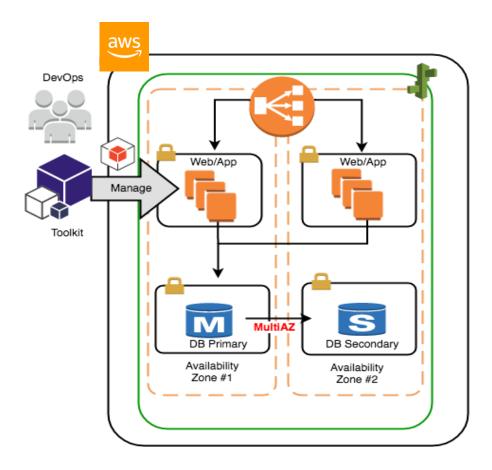




Step 2: Migrate to AWS Managed Services

AWS Services: AWS Elastic Beanstalk, Elastic Load Balancer (ELB), Amazon RDS

Design:







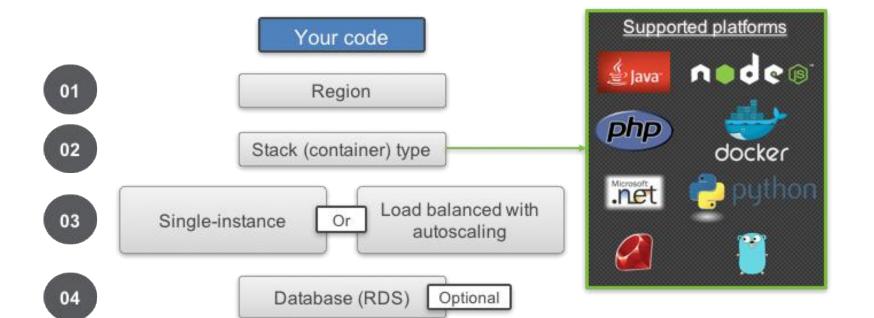
Step 2: Migrate to AWS Managed Services

Stack Provisioning Options

Required information to build a stack on AWS Elastic Beanstalk

DASHBOARD
API
CLI
AWS CloudFormation





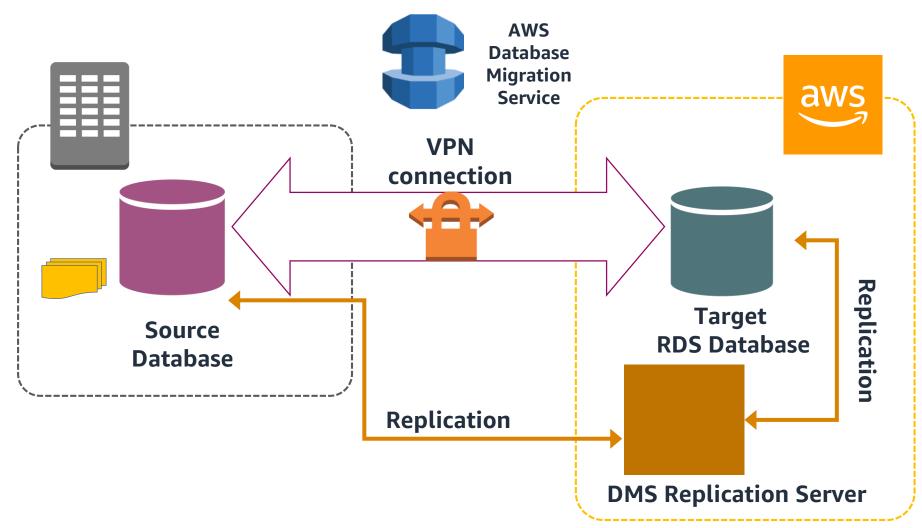




Step 3: Database Migration

Use AWS Database Migration Service (DMS) to migrate the database (data) for Panda

CDM





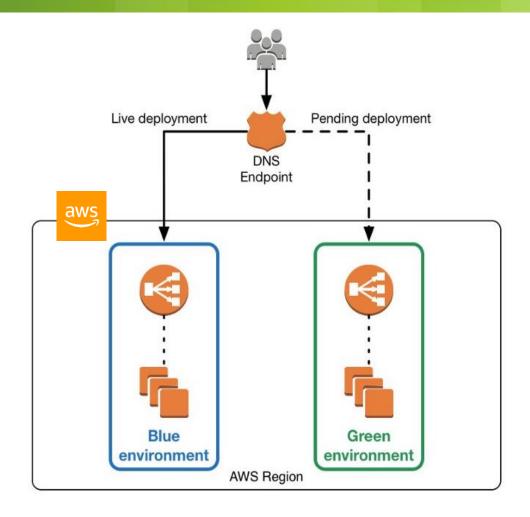


Before going Live: Integration & Validation

Integration

Validation









Summary...



Migrating & Platforming

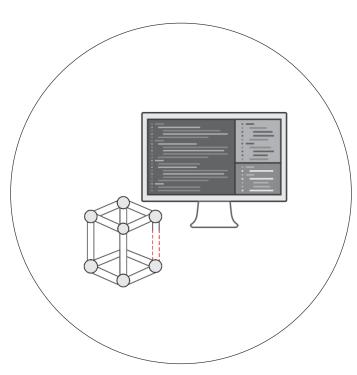




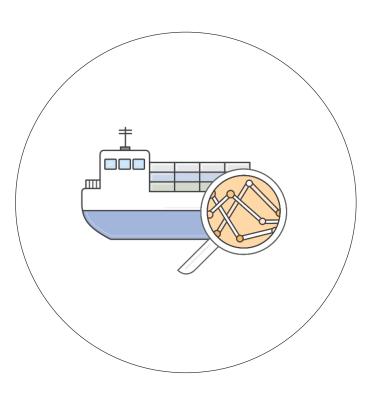
Next Steps ...



Migrating & Platforming



Building & Modernizing



Optimizing & Delivering





Management & Monitoring







Splunk



Sumo Logic



Kibana

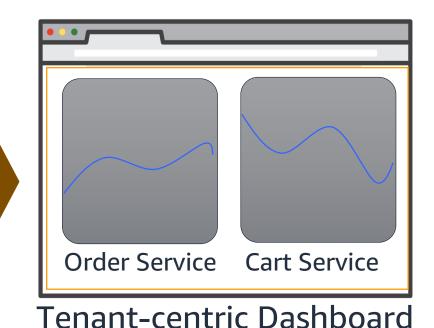


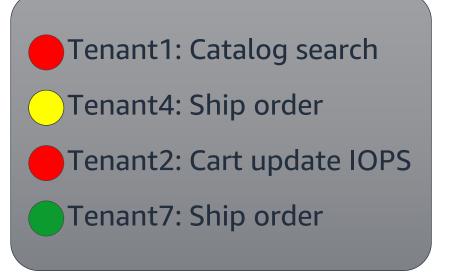


Capturing Tenant Level Metrics

Tenant-Level Metrics



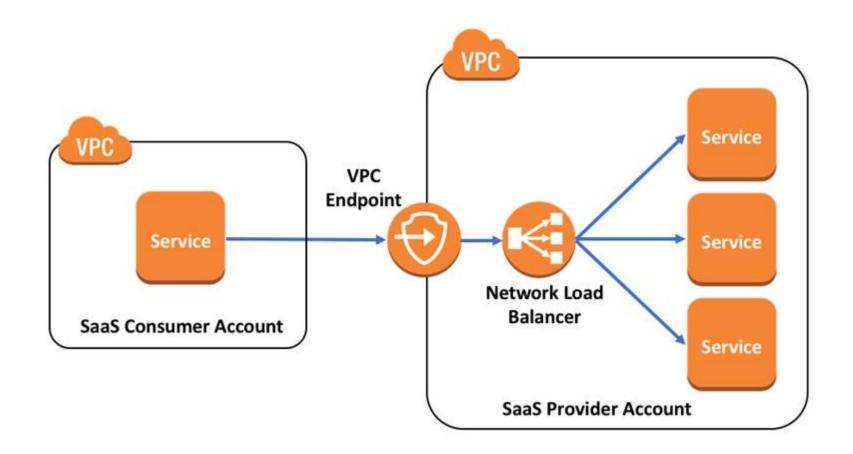








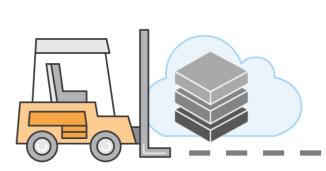
Enabling New SaaS Strategies with AWS PrivateLink

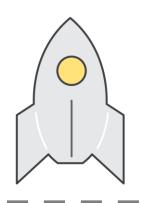


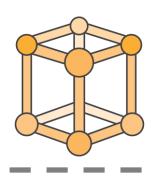




Announcing TechShift Accelerator













Accelerate
migration of your
software to cloudnative service

Differentiate from competition by offering premium features/services through AWS advanced service integrations

Broaden customer reach through AWS resources – field, partners, AWS Quick Starts, AWS Marketplace, APN Programs, marketing events

Speak to your Partner Development Representative



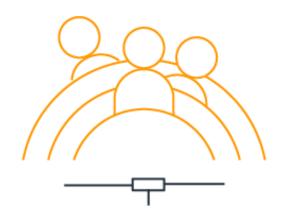


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