nDivision

Azure

Turnkey Azure Datacenter (TAD) Engagement Methodology

TAD Engagement Methodology

End-to-End Summary

Define Plan Scope

- Customer Goals/Objectives
- Customer documentation
- Customer requirements
- Precision Q&A with Customer

Create Detailed Plan

- Azure best practices
- Azure reference architectures
- Cloud design patterns
- Choose the right technologies for the plan

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Industry knowledge and expertise

Review Plan

Plan and Objectives/Goals approved

Create SoW/Project Plan

Input

Approved Plan that meets Customer Objectives/Goals

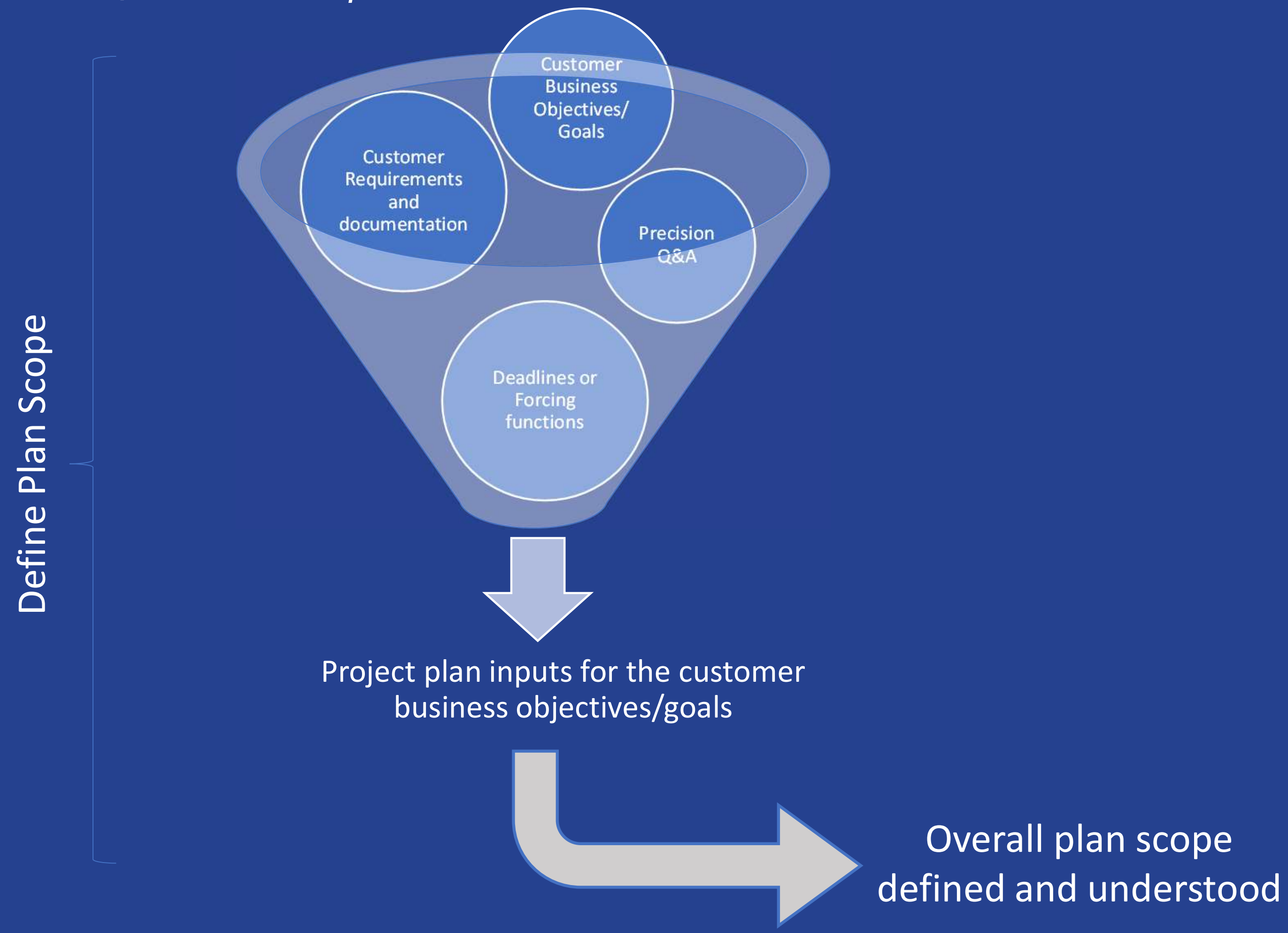
Create final architecture diagrams, and SoW with project details

Output

SoW/Project Plan delivered

TAD Engagement Methodology

Define Plan Scope



Define Plan Scope

Customer Business Objectives/ Goals

Customer Requirements and documentation

Precision Q&A

Deadlines or Forcing functions

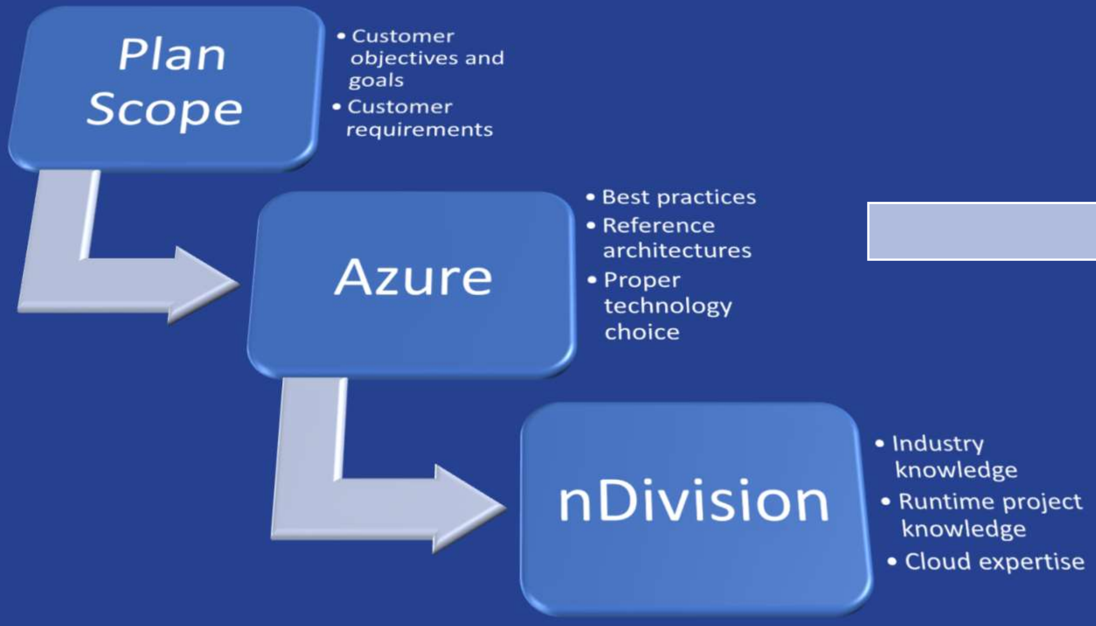
Project plan inputs for the customer business objectives/goals

Overall plan scope defined and understood

TAD Engagement Methodology

Create Detailed Plan

Create Detailed Plan



Plan Scope

- Customer objectives and goals
- Customer requirements

Azure

- Best practices
- Reference architectures
- Proper technology choice

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- Industry knowledge
- Runtime project knowledge
- Cloud expertise

Plan details created

Diagrams, figures, and presentation that illustrate the end-to-end plan

TAD Engagement Methodology

Review Plan

Review Plan

Detailed plan

- Present to customer
- Take feedback

Update plan

- Integrate customer feedback
- Update diagrams and figures

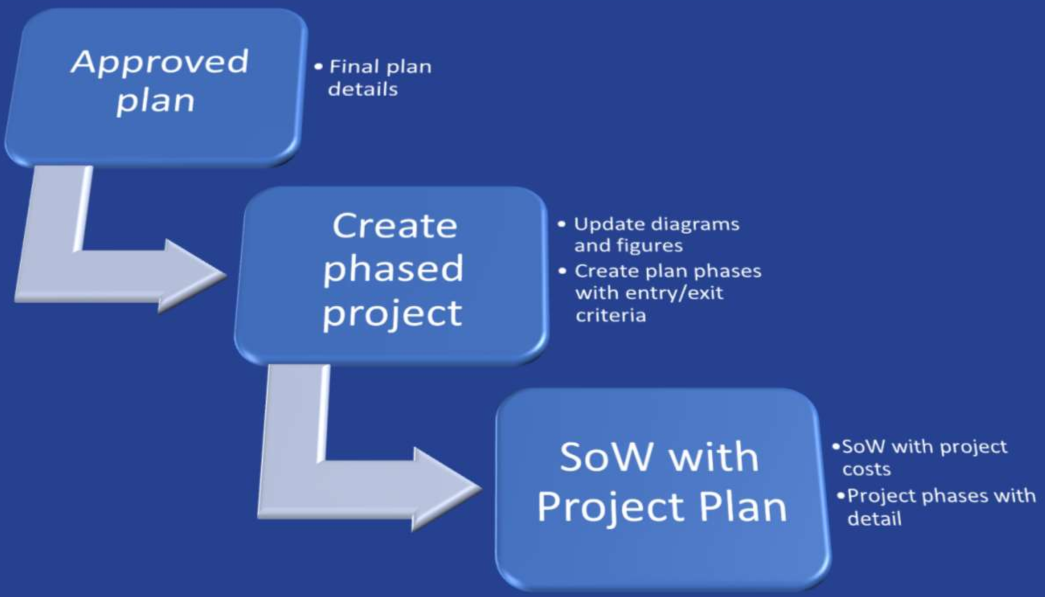
Plan Approved

- Plan approved by customer
- Final details used as SoW input

TAD Engagement Methodology

Create SoW/Project Plan

Create SoW/Project Plan



Approved plan

- Final plan details

Create phased project

- Update diagrams and figures
- Create plan phases with entry/exit criteria

SoW with Project Plan

- SoW with project costs
- Project phases with detail

Input

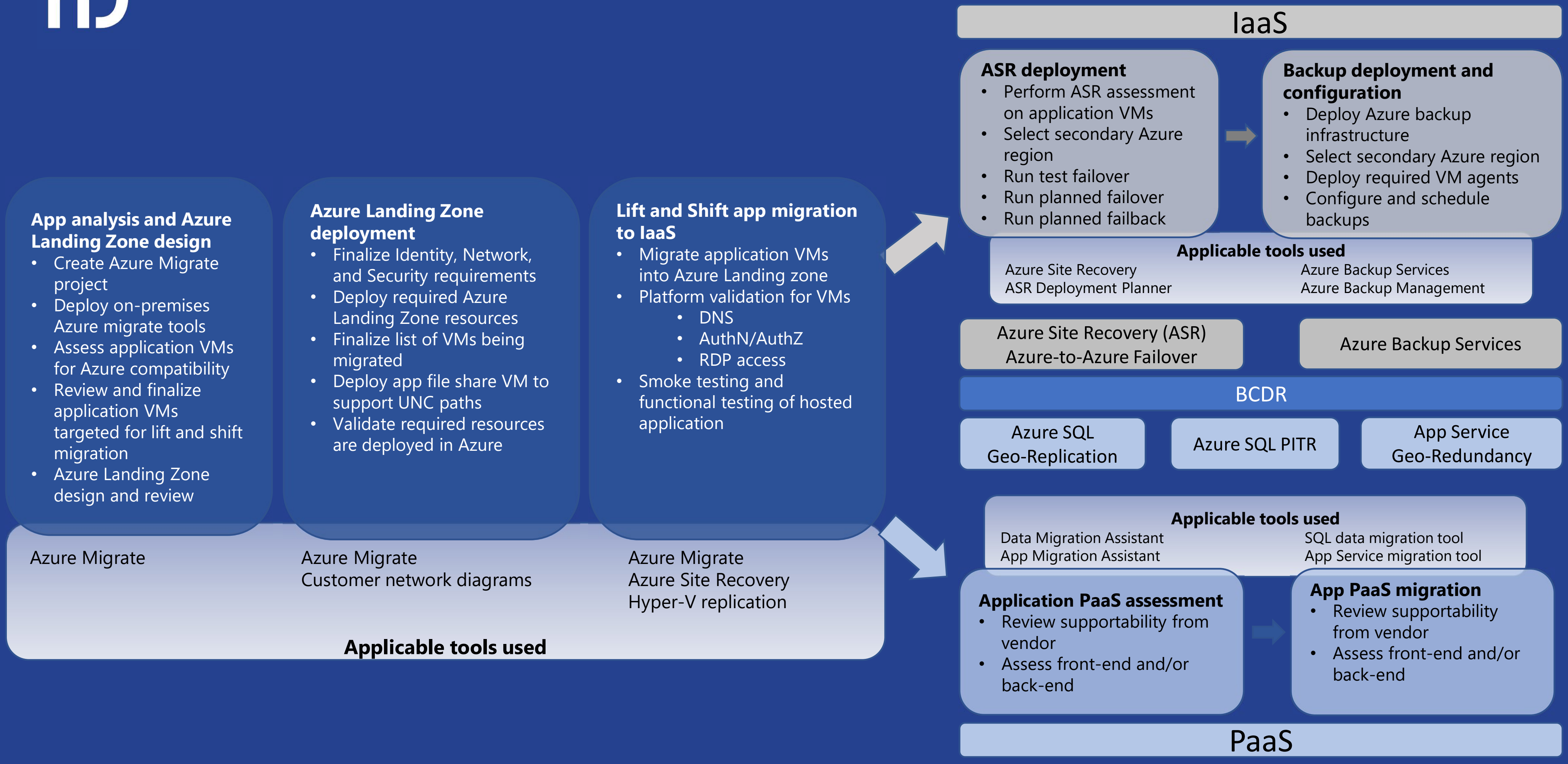
Approved Plan that meets Customer Objectives/Goals

Create final architecture diagrams, and SoW with project details

SoW/Project Plan delivered

Output

App migration project sample



App analysis and Azure Landing Zone design
- Create Azure Migrate project
- Deploy on-premises Azure migrate tools
- Assess application VMs for Azure compatibility
- Review and finalize application VMs targeted for lift and shift migration
- Azure Landing Zone design and review

Azure Landing Zone deployment
- Finalize Identity, Network, and Security requirements
- Deploy required Azure Landing Zone resources
- Finalize list of VMs being migrated
- Deploy app file share VM to support UNC paths
- Validate required resources are deployed in Azure

Lift and Shift app migration to IaaS
- Migrate application VMs into Azure Landing zone
- Platform validation for VMs
  - DNS
  - AuthN/AuthZ
  - RDP access
- Smoke testing and functional testing of hosted application

Applicable tools used

App analysis and Azure Landing Zone design	Azure Landing Zone deployment	Lift and Shift app migration to IaaS
Azure Migrate	Azure Migrate Customer network diagrams	Azure Migrate Azure Site Recovery Hyper-V replication

IaaS

ASR deployment
- Perform ASR assessment on application VMs
- Select secondary Azure region
- Run test failover
- Run planned failover
- Run planned failback

Backup deployment and configuration
- Deploy Azure backup infrastructure
- Select secondary Azure region
- Deploy required VM agents
- Configure and schedule backups

Applicable tools used

Azure Site Recovery
ASR Deployment Planner

Azure Backup Services
Azure Backup Management

Azure Site Recovery (ASR)
Azure-to-Azure Failover

Azure Backup Services

BCDR

Azure SQL
Geo-Replication

Azure SQL PITR

App Service
Geo-Redundancy

Applicable tools used

Data Migration Assistant
App Migration Assistant

SQL data migration tool
App Service migration tool

Application PaaS assessment
- Review supportability from vendor
- Assess front-end and/or back-end

App PaaS migration
- Review supportability from vendor
- Assess front-end and/or back-end

PaaS

Azure Site Recovery (ASR) project sample

App analysis and Azure Landing Zone design

- Create Azure Migrate project
- Deploy on-premises Azure migrate tools
- Assess application VMs for Azure compatibility
- Review and finalize list of VMs targeted for ASR
- Azure Landing Zone design and review

Azure Landing Zone deployment

- Finalize Identity, Network, and Security requirements
- Deploy required Azure Landing Zone resources
- Finalize list of VMs being protected
- Validate required resources are deployed in Azure

Test Failover/Failback Event with subset of IaaS resources

- Identify VMs participating in test failover/failback event
- Platform validation for VMs
  - DNS
  - AuthN/AuthZ
  - RDP access
- Smoke testing and functional testing of any applicable hosted applications

Applicable tools used

Azure Migrate

Azure Migrate
Customer network diagrams

Azure Migrate
Azure Site Recovery
Hyper-V replication

IaaS

ASR deployment

- Perform ASR assessment on final list of VMs
- Remediate any VMs which have ASR issues
- Finalize ASR failover Azure region
- Run full Prod planned failover
- Run full Prodplanned failback

Applicable tools used
Azure Site Recovery
ASR Deployment Planner

Azure Site Recovery (ASR)
On-Premises to Azure Failover

References

Azure Architecture Center - Azure Architecture Center - Azure Architecture Center | Microsoft Docs

Azure Architecture PDF - https://docs.microsoft.com/en-us/azure/architecture/opbuildpdf/toc.pdf?branch=live

FastTrack - Microsoft FastTrack, move to the cloud with confidence