

Integrated Transition and Transformation Plan

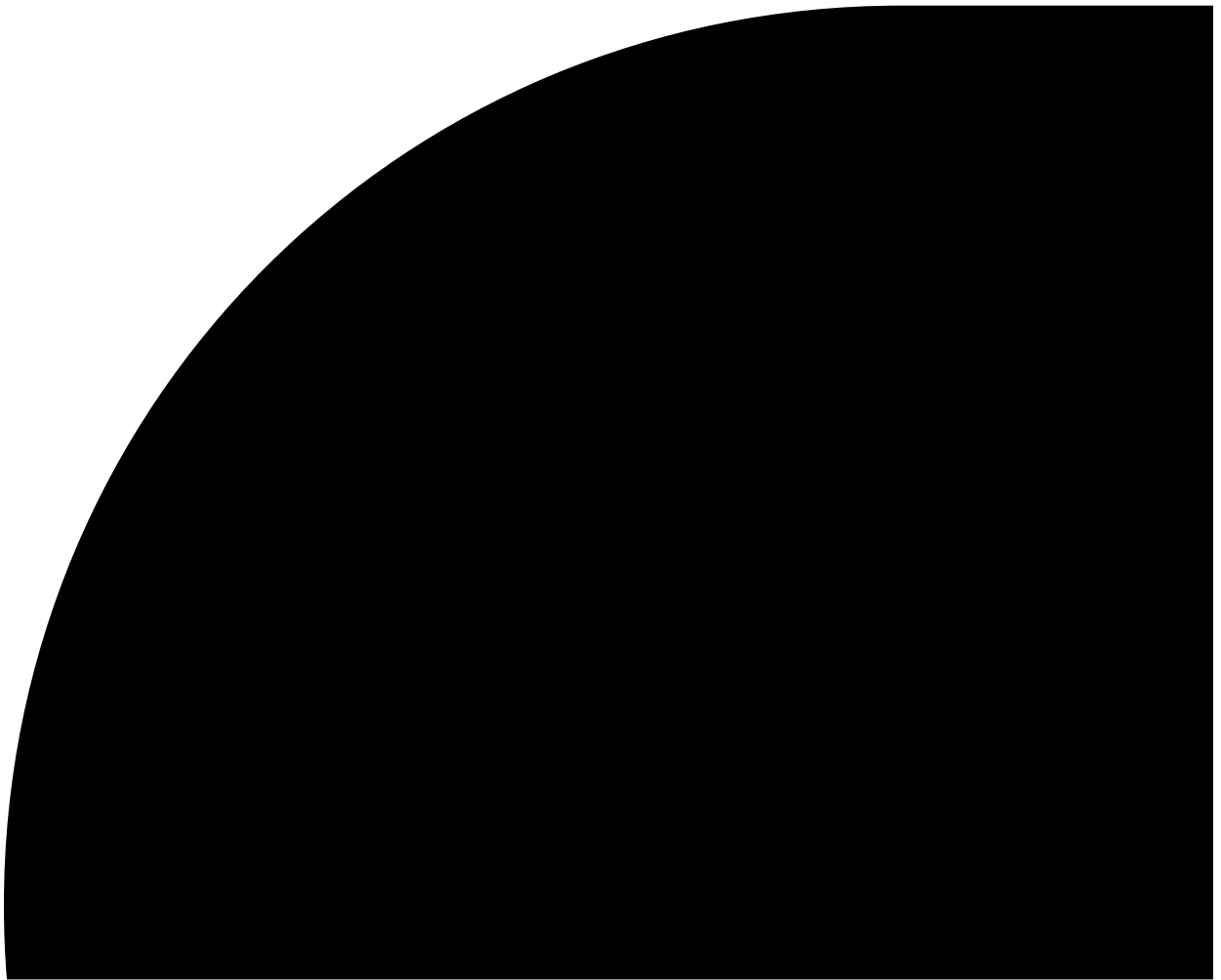
Project Plan

Project: [IaaS – MS Azure Stack Onboarding]

Program: OPX-0020430040

Client: ---Confidential----

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Document Revision History

Change Request # (Optional)	Document Version	Date	Prepared / Modified by	Reviewed by	Approved by	Section and text revised
	0.1	4 June 2018	Pavol Misun			Initial Template
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	0.3					

Contents

1.	Project IaaS – Azure Stack Onboarding	4
1.1	Project Goal.....	4
1.2	Project Scope	4
1.3	Project Implementation Approach	6
1.4	Key Project Deliverables and Milestones	6
1.5	Key Project Dependencies	6

1. Project Azure Public Setup

The project for **laaS Compute Setup** ensures the identified and agreed ---Confidential--- server workloads (OS images and server disk content) will be transformed and migrated with a landing zone Azure Public. Fully virtualized **Azure Cloud environment** will be setup with ---CONFIDENTIAL--- management tools for Gold Tier service as the main landing zone for Azure Public workloads. We estimate that about 80% of the existing application landscape will be hosted on a private cloud based on Azure Stack or VMWare.

1.1 Project Goal

Project Goal
The goal of this project is: • Based on assessment, the Azure Public friendly applications will be identified and an application transformation plan will be created for each individual application and the workloads will be migrated to the Azure Public cloud. • ---CONFIDENTIAL--- is going to resell Azure Services in order to provide better pricing we get from Microsoft under the CSP program. • The landing zone will be ---CONFIDENTIAL--- Datacenters in Copenhagen. • Direct border routed connectivity to Azure will be established via ExpressRoute and AT&T NetBond. • Handover created for the Azure solution to the ---CONFIDENTIAL--- Cloud Ops team for ongoing support. • Handover to ---CONFIDENTIAL--- Migration team to migrate workload • Handover to ---Confidential--- Application owners • Handover to responsible team to provision new servers instances and/or deploy tools, databases and applications as agreed elsewhere.

1.2 Project Scope

Project Scope	
In Scope	Out of Scope

• Azure R2.1 Infrastructure as a Service support for Azure Stack - Setting up Azure R2.1 green field Gold subscription environment in a single region that includes: ○ Configuration management, capacity management, security operations, incident management, problem management, change management, network configuration management, virtual network management, coordinate network break/fix with provider, storage management (regardless of size). ○ Coordinating break/fix of Azure Stack hardware with the OEM ○ Service availability reporting dashboard ○ Windows & Linux VM OS (Operating System) management and support ○ Database management and support ○ Azure Stack underlying core appliance or Stamp: ○ Apply patches to Stack (test & validate in lab prior to applying to validate compatibility with our ---CONFIDENTIAL---- toolchain) ○ Firmware change coordination with OEM ○ Capacity management of Stack ○ Storage, ○ Network Configuration on Azure, ○ OMS, ○ ServiceNow, ○ Antivirus, ○ Azure Site Recovery ○ ---CONFIDENTIAL---- BuaaS ○ Active Directory integration with existing on premise AD ○ self service provisioning VMs via our Azure R2.1 ARM templates • Transition to CloudOps • Tooling deployment and integration (OMS, CloudCheckr, CrowdStrike, SN Blueprint)	• Discovery of existing infrastructure entities and assessment – it is described in other ITP document(s) • Specialized security requirements • Non-standard VMs • PaaS Services not specifically listed in ---CONFIDENTIAL---- Azure R2.1 offering • Database migration and support • Database licenses • Network connectivity to subscriptions
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1.3 Project Implementation Approach

Project Implementation Approach
This project builds future landing platform for servers currently running on Customer sites which will be mapped into future Azure Stack landing zone.. <i>If after the assessment phase any change on the designed IaaS Compute solution (including additional environment in the scope) will be required, this will be managed as a change request with possible additional effort to be covered by customer.</i>

1.4 Key Project Deliverables and Milestones

Deliverable /Milestone No.	Contract Deliverable /Milestone?	Deliverable /Milestone Name	Owner	Due Date	Acceptance Criteria
1	Yes	Project start		CSD – January 2019	
		Provide key technical role and PM who will act as SPOC between ---CONFIDENTIAL--- and taken over ---Confidential---'s technical team	---CONFIDENTIAL---	CSD - 1M	Names shared with ---CONFIDENTIAL---
		Access to key taken over customer individuals responsible for the operations	---CONFIDENTIAL---	CSD - 1M	Names shared with ---CONFIDENTIAL---
		Access to customer application owners	---CONFIDENTIAL--- / ---Confidential---	CSD - 1M	Names shared with ---CONFIDENTIAL---
		Access to customer site managers	---Confidential---	CSD - 1M	Names shared with ---CONFIDENTIAL---
		Project Initialization (project setup and ITP acceptance)	---Confidential--- and ---CONFIDENTIAL---	CSD - 1M	Key project resources are in place and available (PM, Architect, application owner, site manager). Kickoff Workshop with ---Confidential--- has taken place to review the • Scope • Schedule • Down-times
2	Yes	Planning and detailed design for the new environment are defined: • Receive Specific Azure Stack BOM from Solutioning Team for	---Confidential---CONFIDENTIAL---	CSD	Design and concept finalized and accepted

		this specific implementation • Complete pre-planning assessments of client workloads to design the Azure Stack environment & select any additional services required. Identify if any specific security requirements or restrictions are needed for this client (i.e. UKPS, government, etc) • Review of Azure Stack sizing done prior to contract signature. Make sure it's been sized correctly for appropriate growth. Make sure that any additional HW needed at the DC has also been included in the solution (i.e. switches).. • Network Connectivity (internal & external) and Security Design taking into account any specific security requirements identified above • Determine Azure Stack Region Name (precedes your External Domain Name suffix) • Certificate generation for public endpoints made available for the platform. The certificates can be purchased from a public certificate authority (CA) or a ---CONFIDENTIAL---- or customer (CA). (lapsed time can take 1 month) • Azure Active Directory subscription and account for Azure Stack connected mode integration. [varies by complexity] • DC Planning for Azure Stack HW (Power, floor space, cooling, phase redundancy, monitoring, controlled access etc.)			
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		- Complete cabling worksheet so datacenter can order cabling - Complete the Configuration Deployment Workbook (CDW) spreadsheet and review with the OEM vendor - Define platform backup fileshare - Define custom backup solution for workload (client VMs) - Defining Account Azure subscriptions - Define Azure Stack Billing - Fill out Customer Data Template - Defining --- CONFIDENTIAL---- - Service Management - Name Resolution - Virtual network (Vnet) planning - IP Addresses - Defining Azure Networking - Defining Azure Storage - Storage Security - Defining Azure backups (Currently not for Stack) - Defining Azure Compute - Defining Azure Identity			
3		Azure Stack workload Implementation start: - Aggregate layer switch configuration (routing) - Implement Firewall rule changes & test - Establishing connectivity for remote management - SSN config & setup - Implement DNS configuration at DC - Implementation of AAD accounts (at least 1 Global Admin account for registration of Stack in Public) - Provisioning Azure Stack HW - OEM Vendor and --- CONFIDENTIAL----	--- CONFIDENTIAL- ---	CSD + 2M	IaaS Compute on Azure Stack to provision virtual servers for migration. Azure Stack IaaS Compute pre-configured in --- CONFIDENTIAL---- partner factory.

		• Initiate WLP (workload placement) request (requires BOM from OEM) • Meet with OEM and ---CONFIDENTIAL---- DC Manager (review power & cooling requirements, review BOM and add any specific DC requirements) • Evaluate network requirements and existing DC network infrastructure (i.e. switch ports) • OEM orders HW • Datacenter orders cabling • Cabling lag time (2-4 weeks - varies by datacenter) • HW lag time for equipment to be built at factory and shipped to datacenter • HW arrival at DC & racking, cabling and installation, establish remote connectivity • Implement phone home support for Stack platform • Basic Configuration of Azure Stack by OEM Vendor & Microsoft • Handover of Azure Stack HW Platform from OEM to ---CONFIDENTIAL---- • ---CONFIDENTIAL---- receives handover from OEM & Microsoft of Azure Stack • Set up user accounts for appropriate access to OEM vendor tools • Disable any OEM vendor temporary VPN access • Patching and update of Azure Stack platform, as required • Install Azure PowerTools & CLI • Configure Platform Backup (external fileshare required) • Validate that billing/telemetry info is being passed on			
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		• Install and configure the Mid server • Implement/modify Service NOW Mid server configuration • Set up platform monitoring server • Install and configure Infrastructure Monitoring (MMA and Run Book Worker VM) • Configure PowerBI for capacity management of the Azure Stack Marketplace syndication (register in Public to allow downloading of images) • Set up Quotas, plans offers & subscriptions • Submit request to engage all teams via PPMC, etc. • TEM and ODT Arch resources • ServiceNow Onboarding • NSSR Onboarding For new logo only • Crowdstrike configuration • CloudCheckr onboarding • Additional Services Setup (To be updated as applicable) • Identify VMs that require --- CONFIDENTIAL---- tools • Backup VMs (not yet applicable to Azure Stack) • Apply --- CONFIDENTIAL---- instrumentation and services to the VMs during maintenance windows • Testing			
4	Yes	Azure Stack turnover to Operations • User Acceptance Testing • Operational Readiness Review • Client knowledge transfer • Global Network Operation Services	--- CONFIDENTIAL- ---	CSD + 3.5M /Pilot only/	Whole Azure Stack catalogues available to provision production servers for Pilot. Project's closure signed-off by --- Confidential----.

		- Active Directory, ADFS, AAD Support - - Turn over to global blueprint support team			
5	Yes	Project end		CSD + 4M	NOTE: Migration can be run. Landing zones capable to host workload.

1.5 Key Project Dependencies

Dependency No.	Dependency Description	Owner	Due Date	Acceptance Criteria
1	Taken over ---Confidential--- employees are available to be part of laaS Compute program. Knowledge transfer and work shadowing finished.	--- CONFIDENTIAL- ---	CSD – 2M	Sites are documented and accessible for --- CONFIDENTIAL---- to run discovery
2	Assessment of existing --- Confidential---- servers finished	--- CONFIDENTIAL- ---	CSD – 2M	---Confidential--- sign assessments results
3	---CONFIDENTIAL---- ITO delivery to takeover laaS Compute platform – to install tools, backup clients, DB, etc	--- CONFIDENTIAL- ---	CSD + 3M	---CONFIDENTIAL--- - ITO confirms readiness of resources

Note: Owner identifies the party that is responsible for delivering the dependency on time and to the agreed acceptance criteria.