



A BinaryTree SMART Migration Webinar

Implementing an Active Directory Migration to Meet Real-World Requirements

BinaryTree

The SMART Migration Company

Our Speakers



Gary Steere

Microsoft Certified Master
Microsoft MVP: Exchange
Microsoft Certified Solutions Master: Charter Member -
Messaging, MCT and V-TSP
Principal Solution Architect, Binary Tree



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Microsoft MCSM: Exchange
Microsoft MVP: Exchange
Senior Solution Architect, Binary Tree

Binary Tree Overview

HISTORY

Founded in 1993 with **21 years** of email migration software and professional services experience

FOCUS

Focused on **Microsoft platform migration solutions**: Exchange, Active Directory, Windows Server

STATS

Migrated **over 30 million users** for over 6,000 customers around the world, including over 3 million to the Microsoft cloud

LOCATIONS

Headquartered outside New York City with **110 employees** in North America, Europe and Asia Pacific

PARTNERS

Global, national and regional partners represent Binary Tree in Americas, Europe, Middle East, Africa and Asia Pacific



Implementing an AD Migration to Meet Real-World Requirements

Highlighting Implementation Actions through a Fictional AD Migration Case Study

The Case Study Agenda

- Re-review the Business Situation, Discovery Process and Design Requirements for the Project
- Implementation of the AD Migration
 - Establishing Access and Reviewing Diagrams
 - Preparing to Meet the Prerequisites
 - Installing and Testing the Migration Infrastructure
 - Performing the Pilot and the Production Migrations
- Lessons Learned



Re-Review of the Case Study

Re-Review of the Business Situation, Discovery and Project Requirements

Introduction to the Case Study

The Business Situation and Background

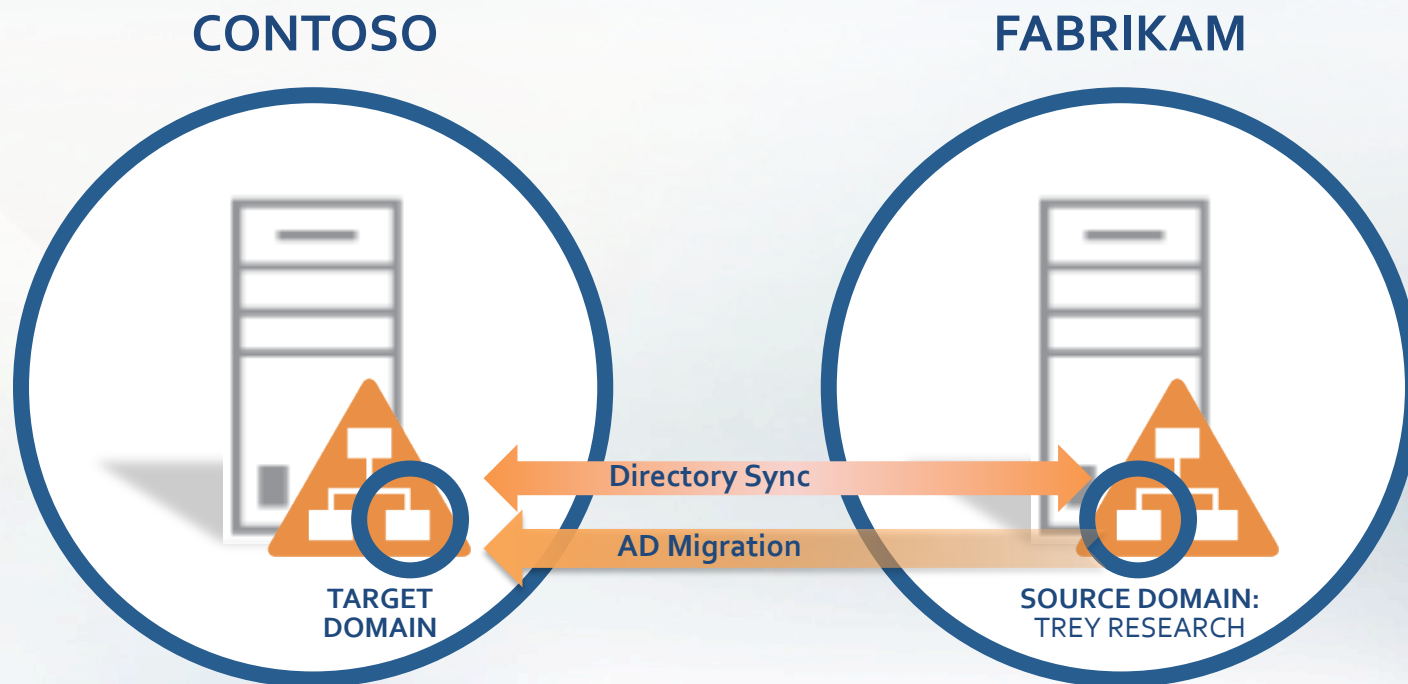
Contoso is acquiring the Trey Research division of Fabrikam and needs to migrate relevant AD objects between the two entities starting on Day One



Discovery of Requirements

Overview

Contoso needs to set up directory synchronization with Fabrikam by Day One and start the AD migration right after Day One



Discovery Questions

Sample Questions on the Business Requirements

- Will this project be known publicly before Day One?
- What is the timing required to complete the migration?
- Where will the new business and employees be located?

Sample Questions on the Technical Requirements

- What client and server OS versions are in use?
- What applications need to be migrated? Are they in this scope?
- What needs to be synchronized between the domains?

Design Requirements

Design Requirements and Recommendations

Requirements	Recommendations
Secrecy, only have permission to subset of OU's in target	No trust
Velocity, remote users and 4 week window	Scalable using standard internet protocols
Disjointed messaging migration	Automatic cleanup of linked mailboxes through synchronization software
Migration velocity, security, VPN support, patching	Remove legacy operating systems
Permissions on only subset of target OU	Sync must selectively transform source security principals and attributes



Implementation of the AD Migration

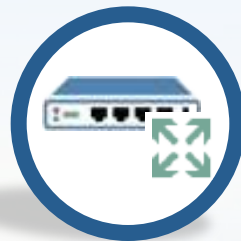
Establishing Access and Reviewing the Environments

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Establishing Credentials and Access



Security Principal
Synchronization



VPN
Access



Workstation
Access



Service
Accounts



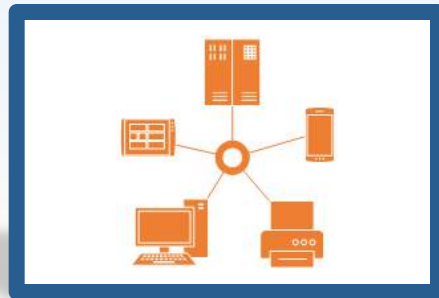
Test
Accounts



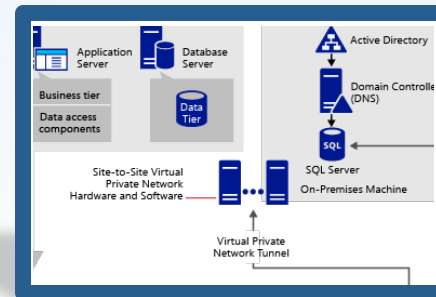
Credentials to Install
Migration Platform

Establishing Access and Reviewing the Environments

Reviewing the IT Environments



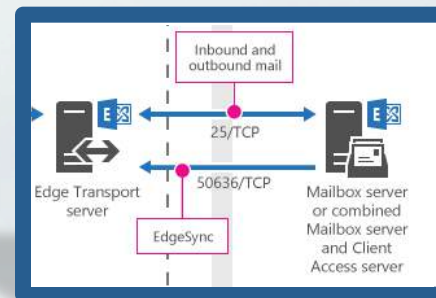
Network Landscape




Datacenter Layout



Racks and/or Hyper-V



Network Port Numbers



Implementation of the AD Migration
Preparing to Meet
the Prerequisites

Preparing to Meet the Prerequisites

Prepare Internet Access for Migration

Verify Internet Access for the Migration Platform:

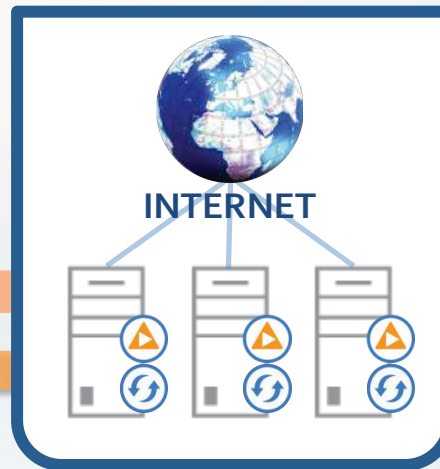
Establish who is responsible and apply any needed application patches

CONTOSO

Includes Target Domain



The Migration Platform Will
Need Robust Internet Access



FABRIKAM

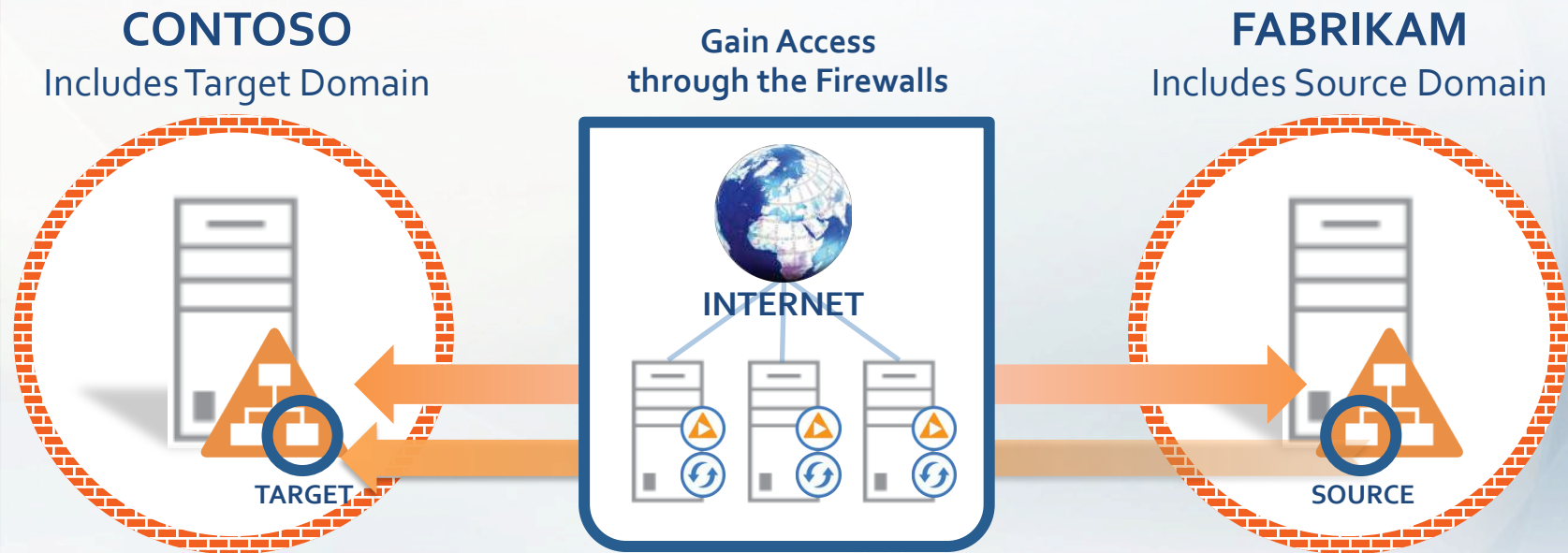
Includes Source Domain



Preparing to Meet the Prerequisites

Prepare for Firewall ACLs

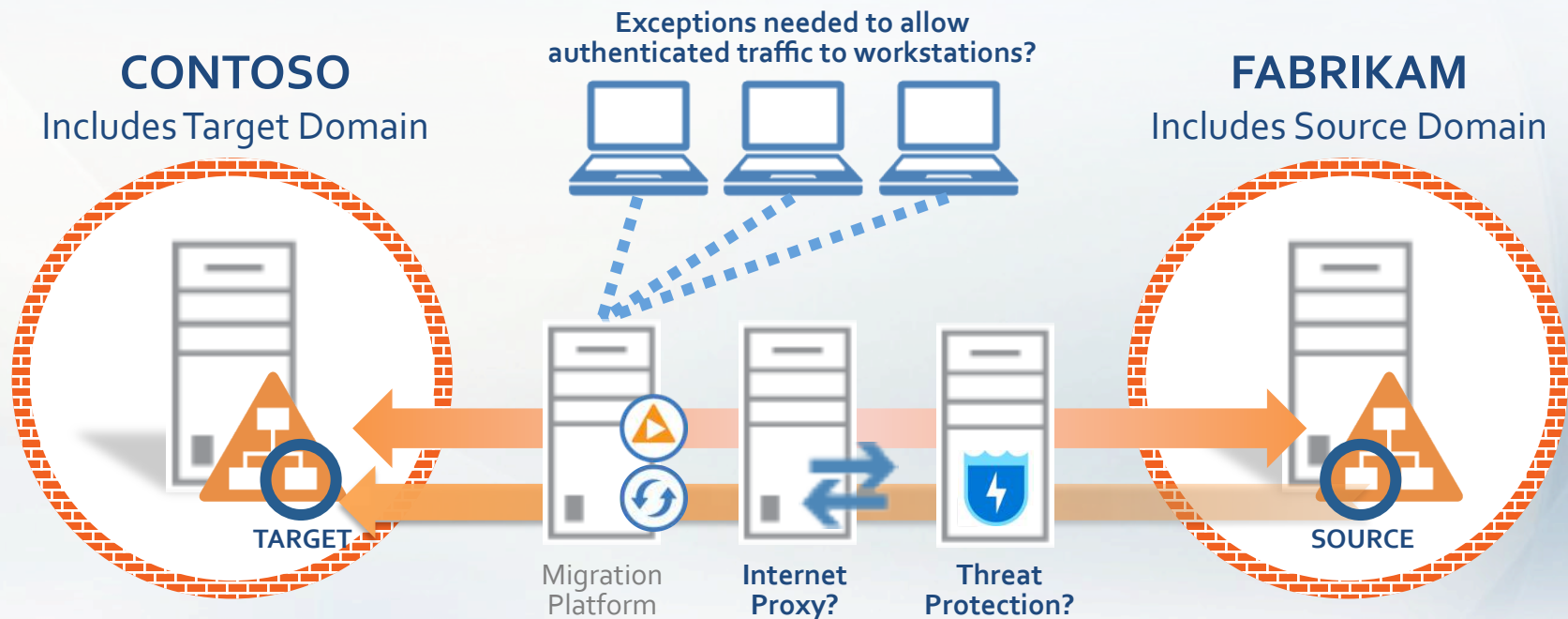
Request Secure Access through the Firewalls: Address Firewall Types, Degrees of Implementation, Change Controls, Security Team Issues, etc.



Preparing to Meet the Prerequisites

Prepare for Potential Obstacles

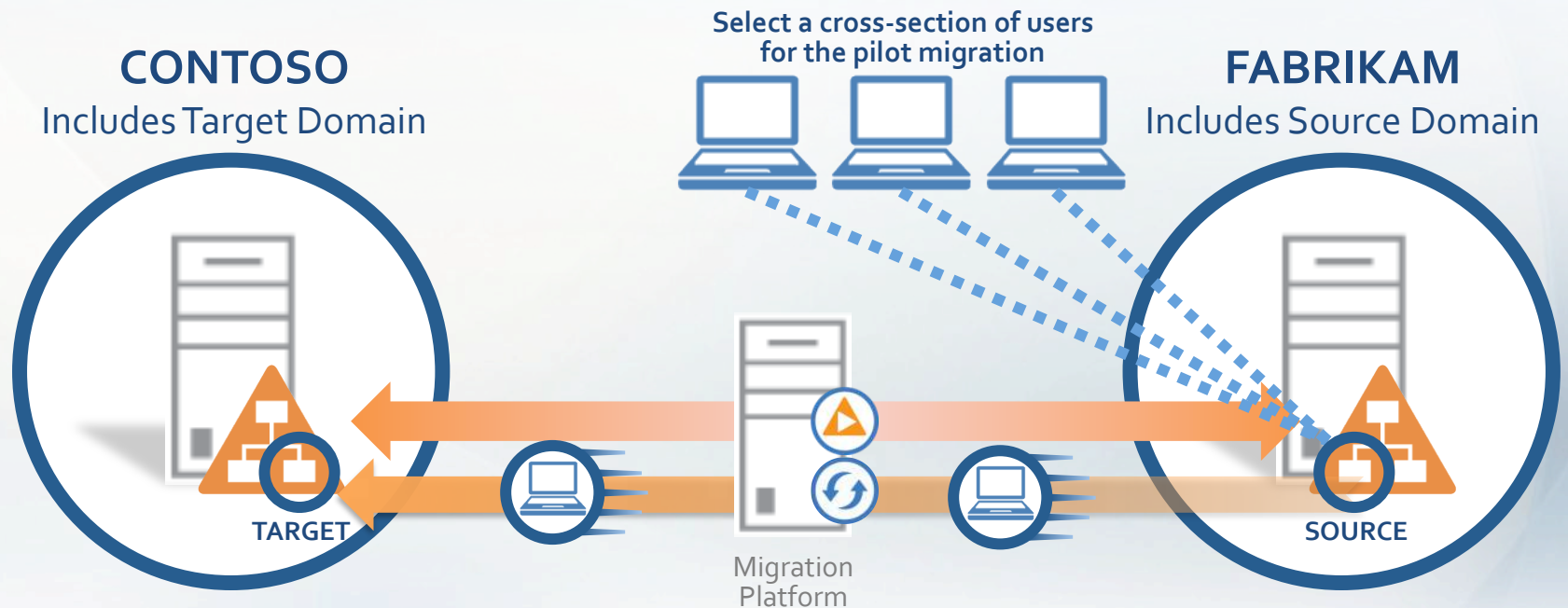
What Might Be in the Way? Internet proxy? Threat protection systems?
Exceptions needed for authenticated traffic to workstations?



Preparing to Meet the Prerequisites

Prepare for a Pilot Phase

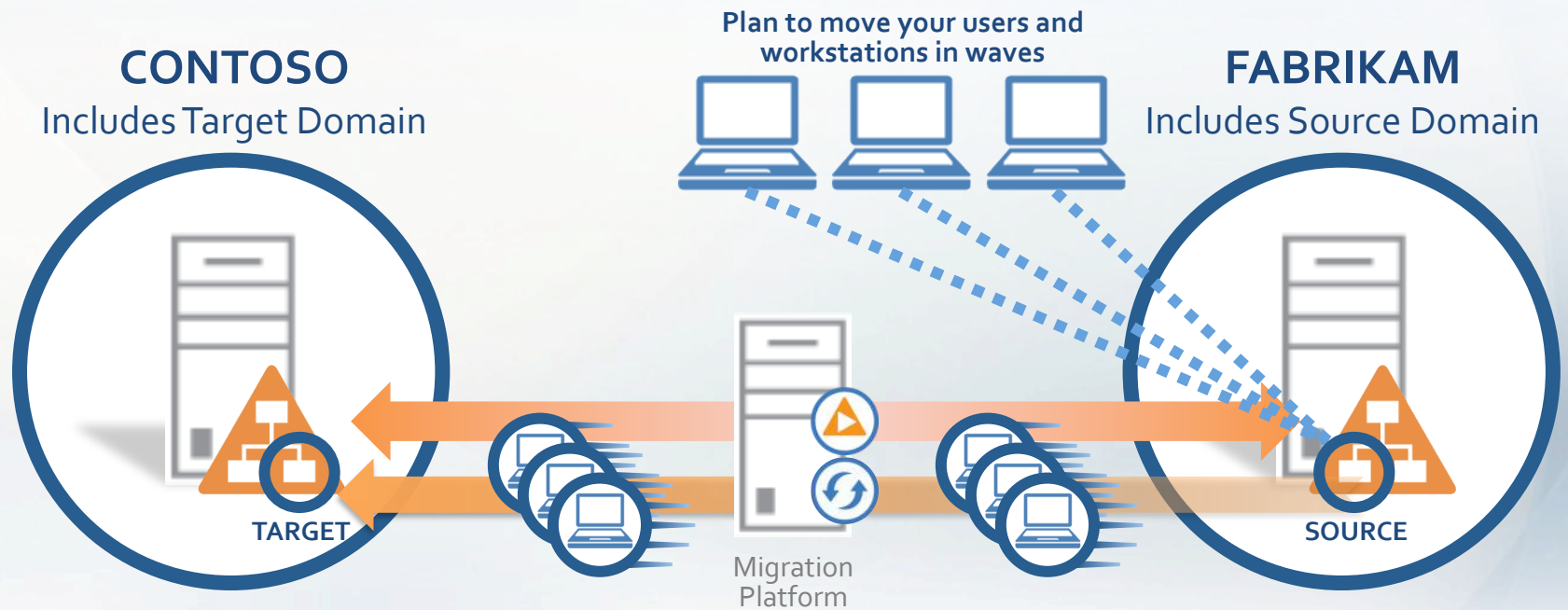
Monitor the Performance and the User Experience: Pick a Sizable Cross-Section of Users Willing to Assist and then Run a 1- or 2-Night Test



Preparing to Meet the Prerequisites

Prepare for Migration Waves

Plan a Phased Migration: Schedule Nightly Waves, Avoid Conflicts, Inform the Help Desk, Create Change Controls & User Communication Templates





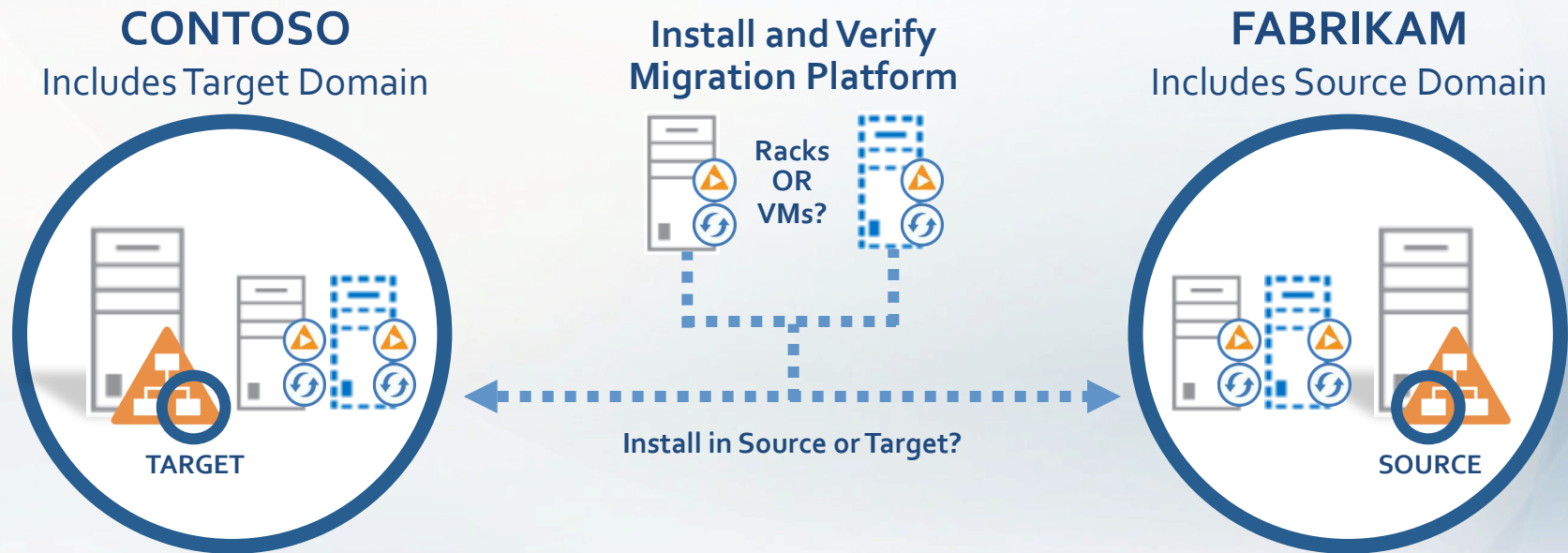
Implementation of the AD Migration

Installing and Testing the Migration Infrastructure

Installation and Testing

Install and Verify the Migration Platform

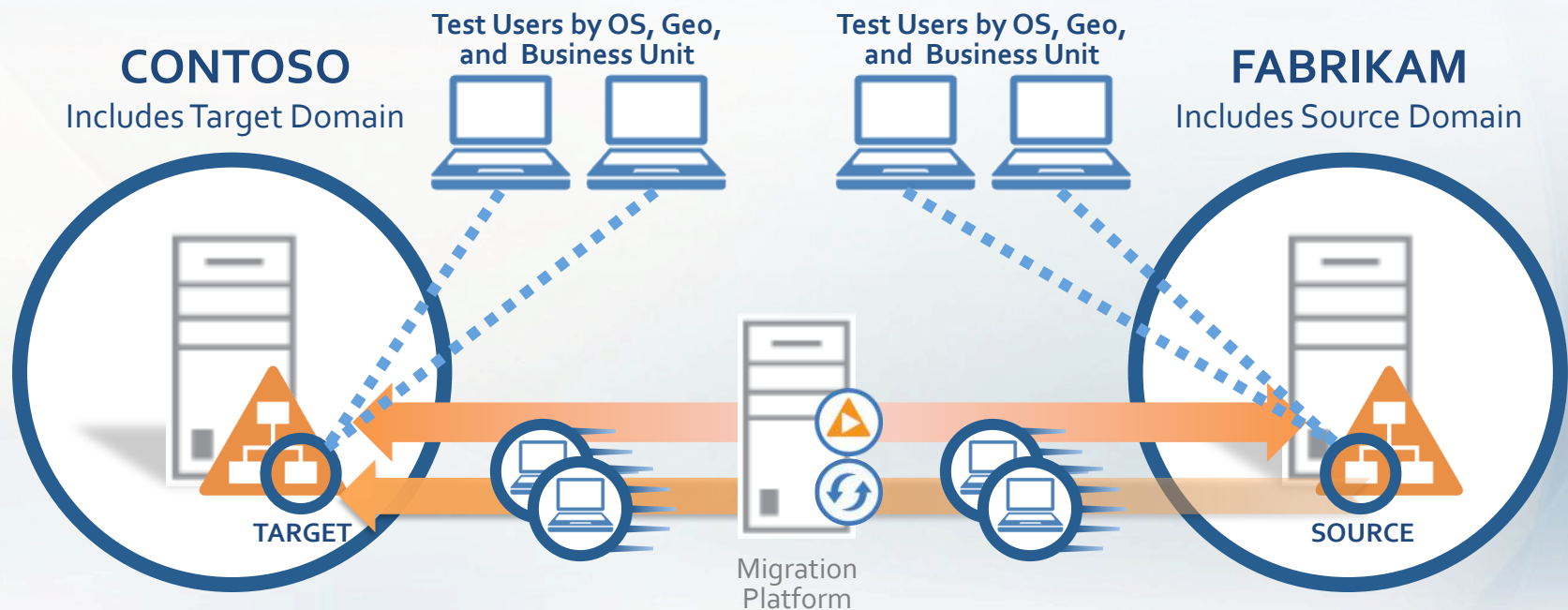
Install and Verify the Install: Determine Who is Installing the Platform, in the Source or Target, on Racks or in VMs, and then Run Sample Test Cases



Installation and Testing

Test User Workstation Migrations

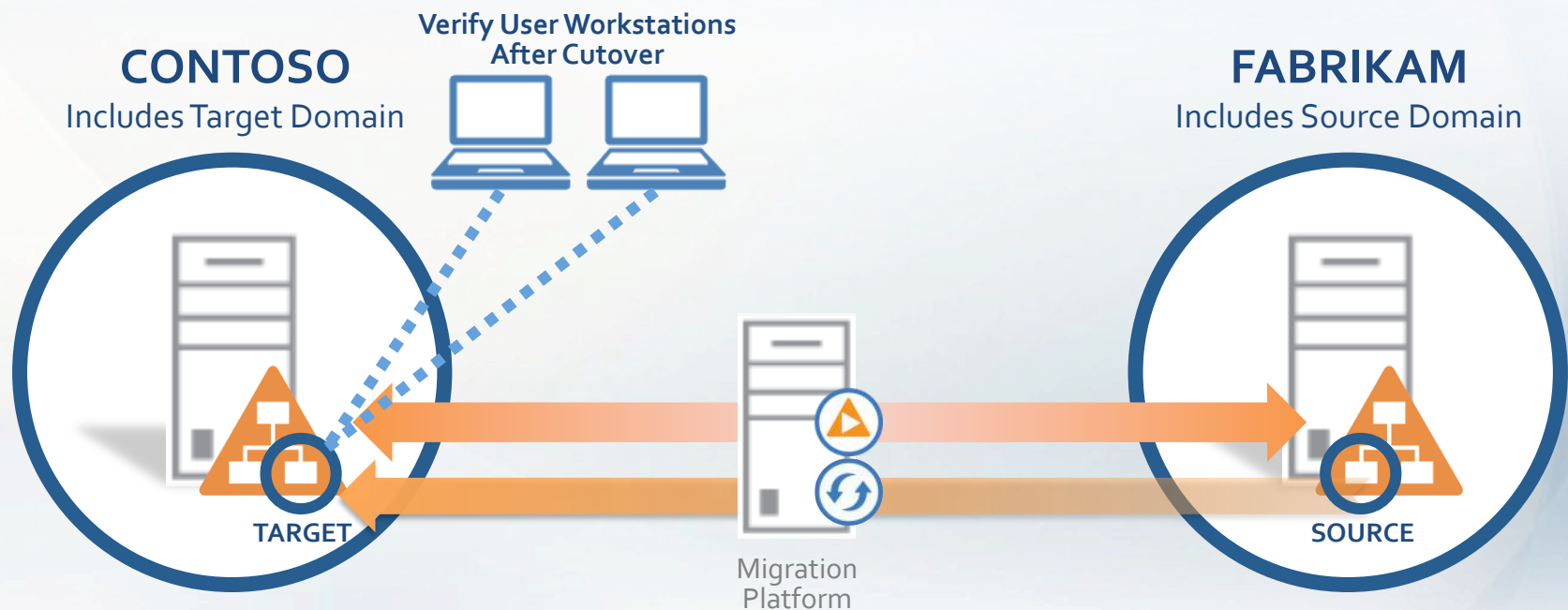
Verify Sync and Migration: Test Sync, Test Users by OS and Business Unit, Test Re-ACLs, Test Cutover, Verify sIDHistory and Application Functionality



Installation and Testing

Test the Workstations After Cutover

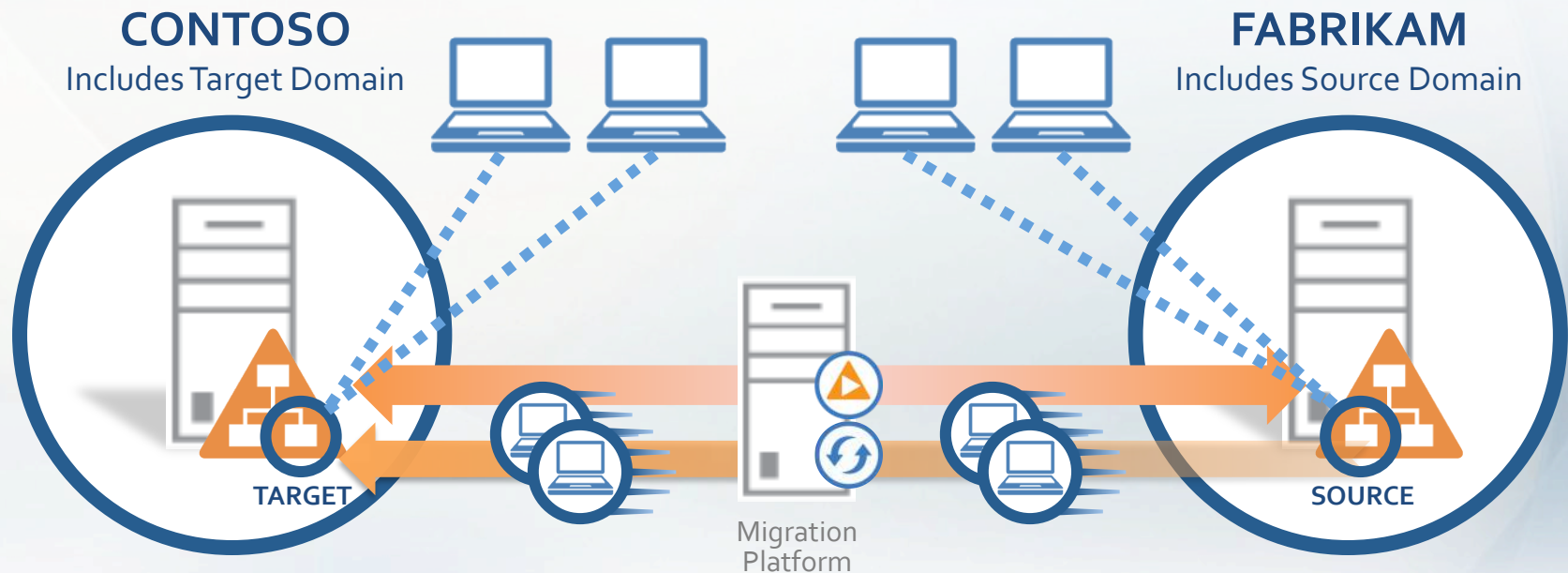
Verify Functionality: Test User Profiles, Home Drives, Metro Apps, Outlook Profile, Cached Credentials and More...



Installation and Testing

Remediate the Issues Found and Retest

Remediate Quickly and Retest: Create a Fix List, Check for Missing Prerequisites, Determine if Issues in Source, Target, Migration Platform...





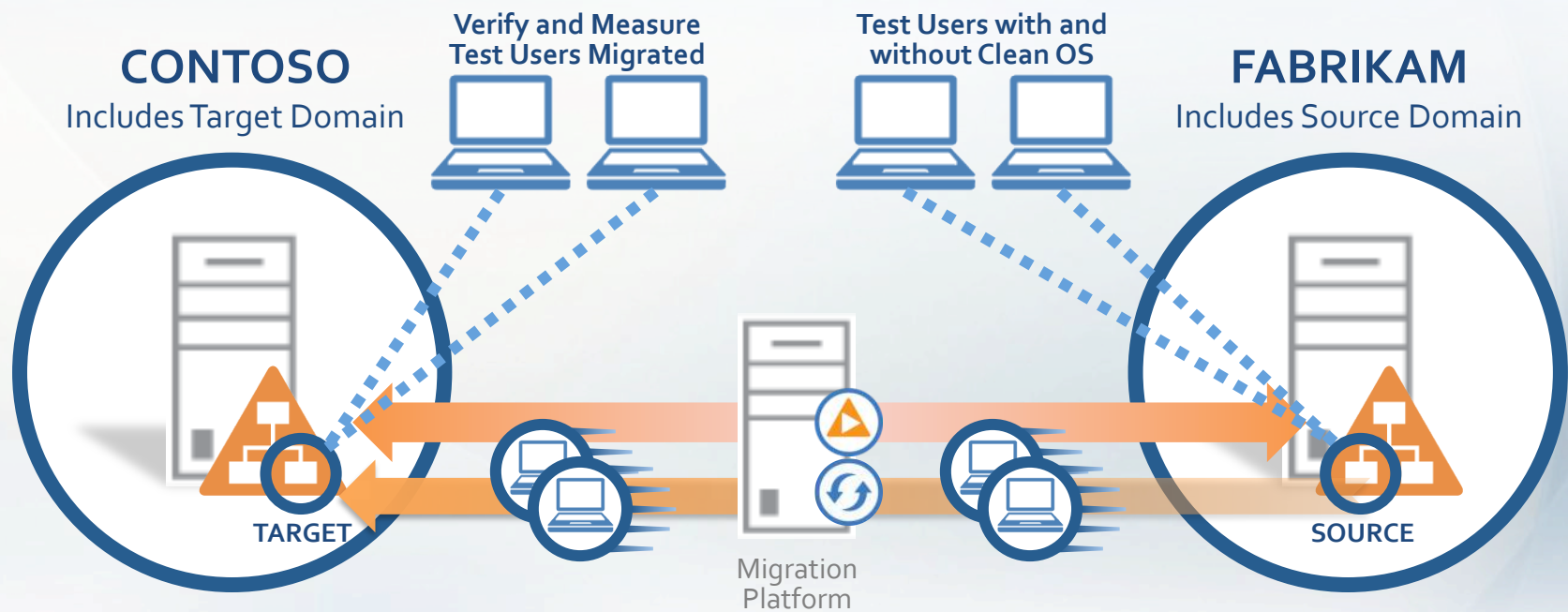
Implementation of the AD Migration

Performing the Pilot and Production Migrations

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Run Real-World Pilot Migrations

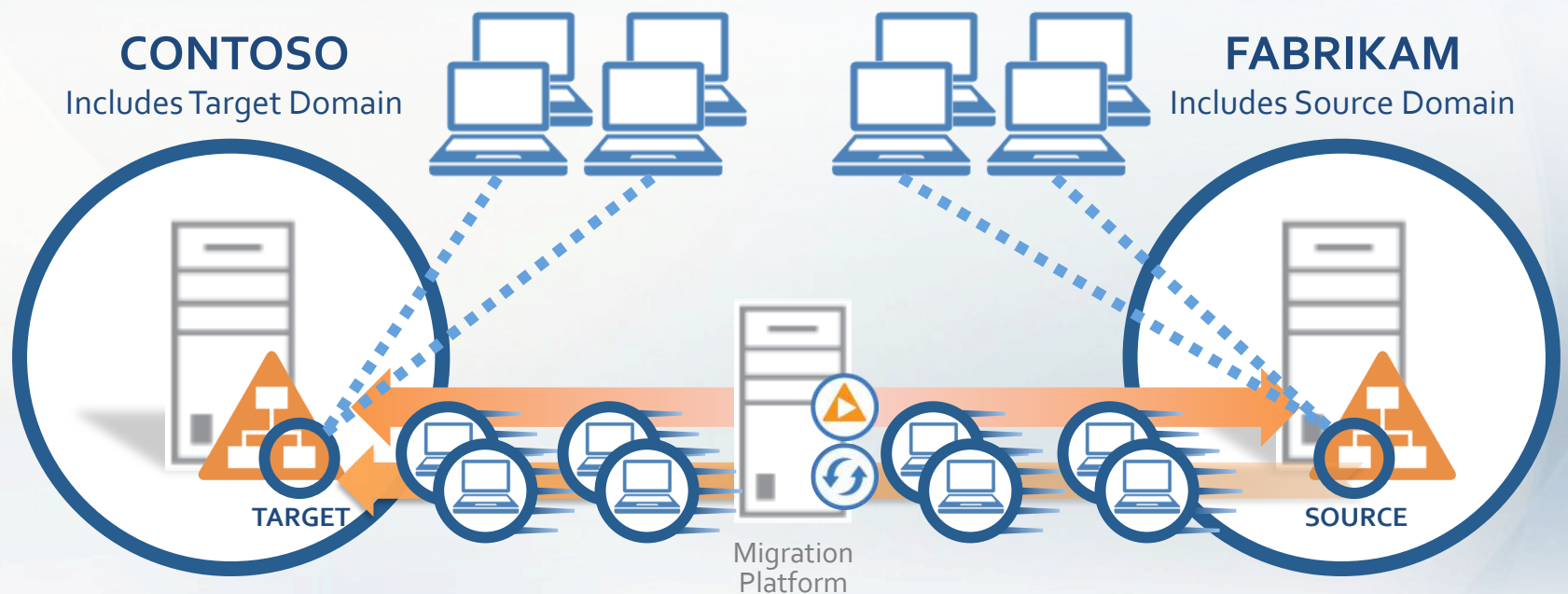
Run Pilot on Real-World Workstations: Run and Measure Progressive Pilots, Assess and Remediate Issues, Retest Until No More Issues



Performing the Pilot and Production Migrations

Start Your Production Migration

Start Migrating with Velocity: Start Communications with Users, Have Help Desk Assist with Office Visits and Daily Metrics, Assist Support





Implementation of the AD Migration Lessons Learned

Lessons Learned

In Summary...

- Test, Test, TEST!!!
- Success comes down to testing and setting appropriate expectations
- 3 out of 5 weeks may be spent on testing your plan before anyone is migrated
- Spend time to truly understand the boundaries
- Aim for < 3 help desk tickets per 1,000 users migrated



Questions and Answers

Upcoming Webinars

Best Practices Webinar

Topic varies each month

Solution Demonstration Webinars

SMART Solutions for Active Directory Migrations

SMART Solutions for Exchange Migrations

SMART Solutions for Notes Migrations

Webinar Schedule: www.binarytree.com/webcasts

Webinar Archive: www.binarytree.com/recordings



Thanks for Attending!

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