



Questionmark Conference 2017  Santa Fe

Questionmark® OnPremise



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Deploying Questionmark OnPremise

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Questionmark®
User account

[Request new password](#)

Username *

Password *



Business Background

- ▶ OnPremise 2017.02 is the latest version
- ▶ Why?
 - Better, faster, and more secure
 - New features with existing data
 - Scalable
 - Faster Fixes/Patches
 - Reliable Deployment
 - Simpler License Management for Authoring
 - Embracing Technology
 - Improved Usability





What to Expect from This Session

- ▶ New Software & Features
- ▶ System Requirements
- ▶ Domain Requirement
- ▶ SQL Server Management Studio
- ▶ SSL Requirement
- ▶ Distribution “Bastion” Host/App Server
- ▶ Configuration
- ▶ Deployment Methods



New Software!

▶ ~~App Fabric~~ - Redis

- "Redis is an open source (BSD licensed), in-memory data structure store, used as database, cache and message broker.."
- Questionmark Uses Redis on Windows 3.0+
- Redis will run happily as a Network Service so no need to change it
- Redis relies on a consistent point of reference for its DB location, so a static IP is needed

▶ Simple SAML

- Security Assertion Markup Language (SAML) is an XML-based open-standard data format for exchanging authentication and authorization data between parties, in most cases between an identity provider and a service provider
- Support for a variety of identity protocols and frameworks such as Shibboleth 1.3 and Shibboleth 2.2 among others



What's New with OnPremise

- ▶ Web based Authoring Manager!
 - No Separate software install for Content Creation
 - No need for opening the extra ports
 - New Authoring interface where ALL content creation through a web browser
 - Workflow managed with roles assigned
 - Delivery DB is separate from the content DB
- ▶ SSO
 - Simple SAML allows for SSO
 - QMWISE SSO now allows access to Analytics reports
 - Multi-Factor Authentication is possible

NEW PRODUCT



What's New with OnPremise

- ▶ Re-Designed Roles/Permissions
 - Improved Security
 - Additional controls
- ▶ Monthly Scripted Updates Available
 - Updates will follow our OnDemand schedule (One month behind)
 - Faster fixes and features available
 - Upgrade up to 12 months at once
- ▶ Powershell Scripted Deployment
 - Less mistakes during installation
 - Easy Scalability
- ▶ Enhanced Reporting
 - Odata (Delivery)
 - RFC





New Features - Login & Portal

Questionmark®

User account

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Username *

Password *

Questionmark®

People ▾ Authoring ▾ Administration ▾ Reporting Analytics ▾ Results







New Features - Portal & Users

Perception 5.7

Home | Authoring | **Administration** | Reporter | Analytics | Results | Settings

Administration ▶ Help

-  **Participants**
View, create, manage and schedule participants (test-takers).
-  **Groups**
View, create, manage and schedule groups - which are used to define the way access works for participants and administrators.
-  **Schedules**
View and manage schedules - which assign participants or groups to assessments.
-  **Administrators**
View, create, manage administrators and control their use of Enterprise Manager and their ability to act as monitors.

OnPremise 2017.02

People ▾ | Authoring ▾

- Users**
- Roles
- Password Policies
- Groups



New Features - Portal & People

The screenshot shows the Questionmark navigation menu. The 'People' dropdown menu is open, showing options: Users, Roles, Password Policies (highlighted in blue), and Groups. The main navigation bar includes: People ▾, Authoring ▾, Administration ▾, Reporting, Analytics ▾, and Results.

Default roles

Below is a list of the permissions enabled by default for the default roles that ship with OnDemand:

- Admin
- Assessment author
- Item bank administrator
- Item author
- Monitor
- Publisher
- Reporter
- Reviewer
- Role manager
- Scheduler
- Test center administrator
- Translation manager



New Features

- Authoring Content Vs Published

Perception 5.7

Home **Authoring** Administration Reporter Analytics Results Settings

Links **Authoring**

- Help
- Question Manager**
view, create, edit and delete questions, which are structured in hierarchical topics. Within browser based authoring, you can view, tryout and delete all questions, but only create and edit simple ones.
- Assessment Manager**
Organize questions into assessments, tryout and manage assessments. With browser based authoring, you can view, tryout and delete all assessments, but only create and edit simple ones.
- Resource Manager**
View graphics and multimedia resources used within assessments.
- Translation Manager**
Choose topic and assessment folders to translate. Then translate questions and assessments into multiple languages, either with Perception or by exporting to XML and re-importing.

OnPremise 2017.02

People ▾ **Authoring ▾** Administration ▾ Reporting Analytics ▾ Results

- Topics**
- Assessments
- Import Qpack
- Metatags
- Manage Access
- Administration
- Published Questions**
- Published Assessments**
- Resources**
- Translations**

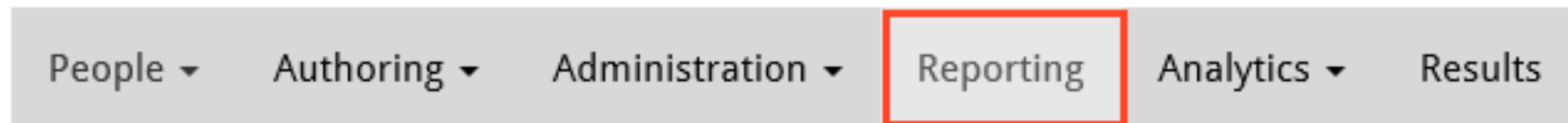


New Features - Portal & Reporting

Perception 5.7



OnPremise 2017.02





Minimum System Requirements

- ▶ Windows Server 2016 with 4 gig of ram
- ▶ Windows Server 2016 running SQL Server 2016
- ▶ You can use a Single physical box running 2 VM's





New Environment Requirements for OnPremise

- ▶ Domain
 - Domain Admin with Local Admin Rights to the Boxes involved as well as Sysadmin rights on the SQL Server Instance
- ▶ SSL
 - SSL is a requirement for all OnPremise installations of Questionmark
- ▶ SQL Server Management Studio
 - SSMS is required on the Application Server for communication with the database server



Configuration Types for OnPremise

Basic

- 1 Windows 2016 Application Server.
- 1 Windows 2016 Server with SQL Server 2016

Load Balanced

- Network Load Balancer
- Multiple Application Servers
- 1 Windows 2016 Server with SQL Server 2016

Component

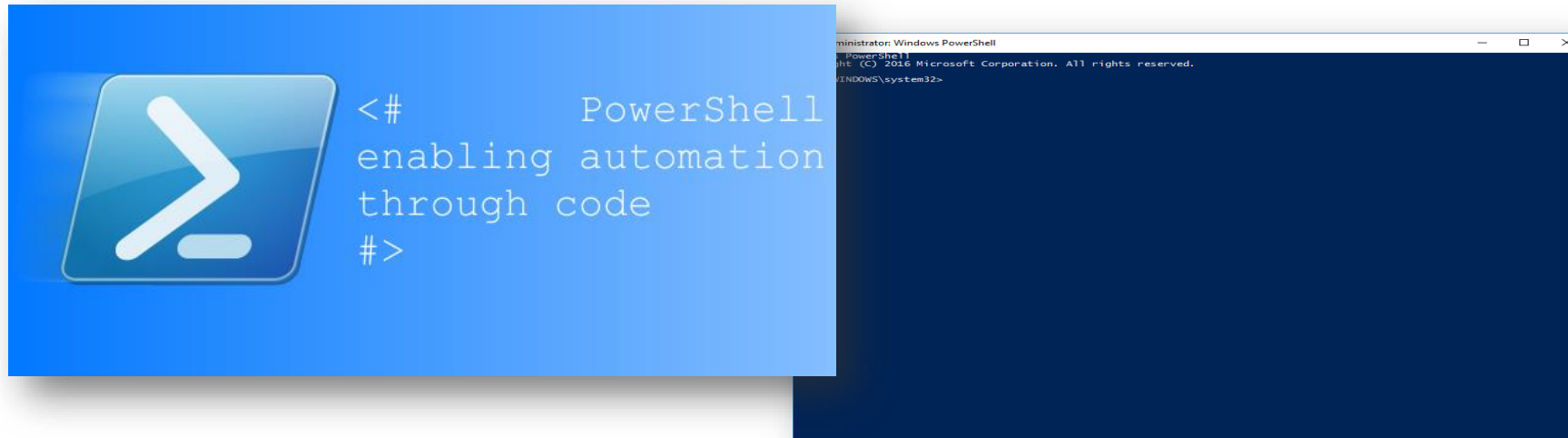
- Network Load Balancer
- Multiple Delivery Servers
- Multiple Shared servers (EM and Portal)
- SQL Server Database Server.
- ETL Database Server



Deployment Method

▶ Powershell

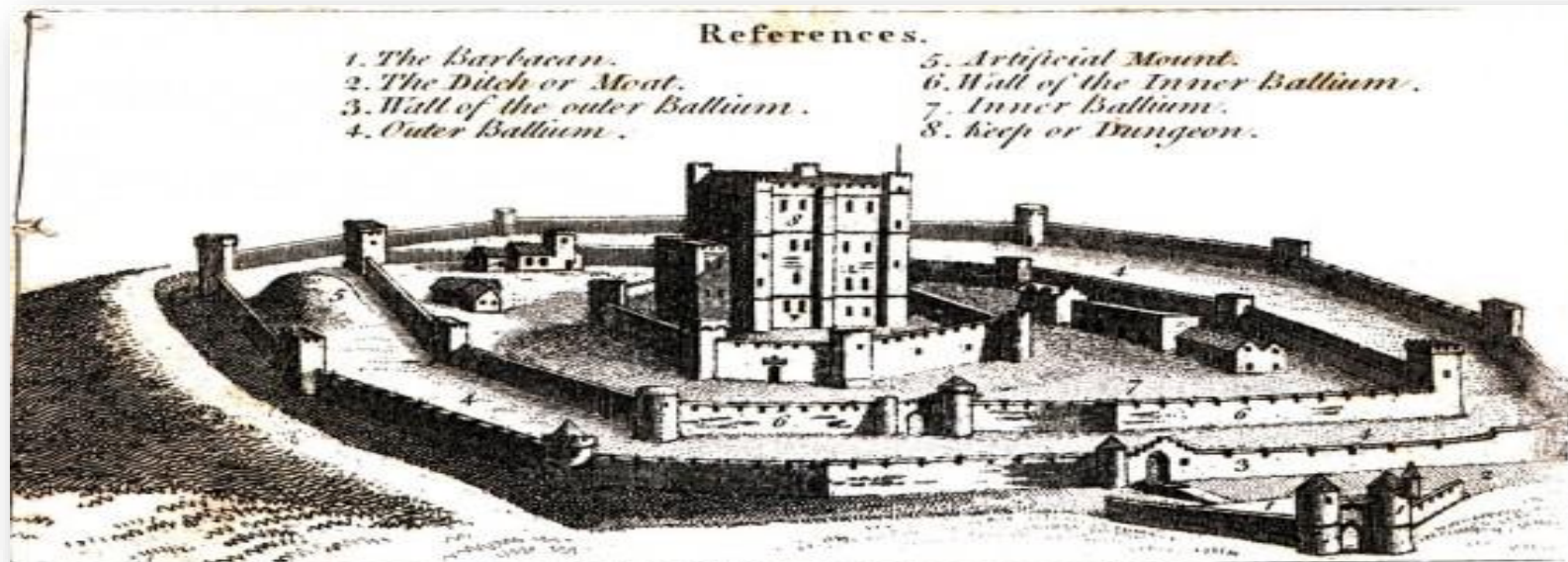
- All deployments are done with administrator run Windows Powershell instances
- Environment variables are set before launching the scripts (SQL server name, application servers)
- Allows for the deployment of all necessary components to each server





Security Considerations

- ▶ Use of Management/Distribution Host server
 - Provides additional security for your OnPremise install
 - All direct interaction with Application/Database servers is done through powershell scripting on the “Bastion Host”





Questions?

