



## Adoption Readiness (ART) 5.4

### Service Virtualization 5.4

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#### Adoption Readiness Tool (ART)

The Adoption Readiness Tool (ART) provides initial and ongoing enablement to your users to ensure that you get the most out of your software. ART is a cost-effective, comprehensive IT education, documentation, and performance support solution. ART provides pre-built simulation-based courses in Micro Focus software that can be accessed by users anytime, anywhere.

Learn more about ART [www.microfocus.com/software/art](http://www.microfocus.com/software/art)

Samples from all our ART Courses can be found at:

[www.microfocus.com/software/artsamples](http://www.microfocus.com/software/artsamples)

ART content provides easy access to self-paced learning content enabling your users to not only dive into an online course but also to gain direct access to individual components to quickly master specific tasks.

- Access printable job aids targeted towards specific application tasks
- View or practice a task in a simulated environment
- Experience full learning with key terms and concepts, product demonstrations, and self-assessments by viewing the entire course

Regardless of which route is selected, users will gain an understanding of the important key concepts, as well as gain competency in both the navigation and functionality of the application.

#### Course Description

This course gives a general overview on how to use Service Virtualization and how to approach service virtualization task in general. The focus is given on most often used data modeling tasks to enable skills required for virtual service creation. This online learning solution consists of 11 modules, as listed below.

#### Audience/Job Roles

This course is intended for all users of the Micro Focus Service Virtualization 5.4 application.

#### Course Objectives

Upon successful completion of this course, you should be able to:

- Identify good uses for service virtualization

- Understand service virtualization architecture
- Know how to define virtual service lifecycle
- Understand how to virtualize HTTP-based service
- Understand data modelling capabilities
- Model virtual service behavior
- Model performance characteristics
- Host virtual service on SV Server
- Manage SV Server from many available clients

## Prerequisites / Recommended Skills

To be successful in this course, you need to have a working knowledge of:

- Windows operating systems
- Testing concepts
- Networking and Internet technologies

## Course Topics

Modules	Objectives
<b>Module 1: Introduction to Service Virtualization</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Key Benefits of Service Virtualization</li> <li>• Virtualization Concept and Virtual Service Modes</li> <li>• Typical Virtualization Lifecycle</li> <li>• High-Level Functional Diagram and Components</li> <li>• SV Designer Architecture</li> <li>• SV Server Architecture</li> <li>• SV Designer UI</li> <li>• Claim Processing Demo - Introduction</li> <li>• Claim Processing Demo - Steps</li> <li>• Use the Claim Processing Demo*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 2: Creating a Virtual Service</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Virtual Service Grouping</li> <li>• SV Project Structure</li> <li>• Virtual Service Structure</li> <li>• SV Designer - SV Project UI Layout</li> <li>• SV Designer - Virtual Service Editor UI Layout</li> <li>• Information Gathering</li> <li>• HTTP Virtualization</li> <li>• HTTP Gateway Agent</li> <li>• HTTP Proxy Agent</li> <li>• Virtual Service Wizard</li> </ul>

	<ul style="list-style-type: none"> <li>• Creation of SOAP over HTTP Virtual Service</li> <li>• Create a HTTP-based Virtual Service*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 3: Introduction to Data Modeling</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Data Modeling Main Principles</li> <li>• Data Modeling Features <ul style="list-style-type: none"> <li>• Native Data Modeling Qualities</li> <li>• Data Model Data Sources</li> <li>• Dynamic Behavior</li> <li>• Environment Interactions</li> <li>• Stateful Simulation</li> </ul> </li> <li>• Basic Data Model Building Blocks</li> <li>• Message Representation <ul style="list-style-type: none"> <li>• Data Table - Advantages and Disadvantages</li> <li>• Data Table - Configuring Headers*</li> <li>• Configure Headers in a Data Table</li> <li>• Data Table - Types</li> <li>• Configure Types in a Data Table*</li> <li>• Row Detail</li> </ul> </li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 4: Condition and Action Functions</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Where Functions Belong</li> <li>• Data Model Functions</li> <li>• Condition Functions</li> <li>• Action Functions</li> <li>• Dynamic Data Generator Functions</li> <li>• Advanced Functions</li> <li>• Tips and Tricks</li> <li>• Use Condition and Action Functions*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 5: Process the Simulation</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• The Simulation Process</li> <li>• The Simulation Inputs</li> <li>• The Simulation Outputs</li> <li>• High-Level Algorithm Explanation</li> <li>• Simulation Algorithm – Step-by-Step Schema</li> <li>• Process a Simulation*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 6: Data Modeling – Hybrid Simulation</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Hybrid Simulation Overview</li> <li>• Hybrid Simulation Use Cases</li> <li>• Enabling Hybrid Simulation</li> <li>• Using Hybrid Simulation in a Rule</li> <li>• Forward Unknown Requests to a Real Service*</li> </ul>

	<ul style="list-style-type: none"> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 7: Data Modeling – Data Driving</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Using Rules to Consume Data</li> <li>• Using Rules to Produce Data</li> <li>• Mapping an External Data Source to a Data Model</li> <li>• Using Rules to Refresh Data</li> <li>• Perform Data Driving from Excel*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 8: Service Call Activities</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Calling External Services</li> <li>• Typical SCA Use Cases <ul style="list-style-type: none"> <li>• Enriching Your Data by Using Other Services</li> <li>• Propagating Internal State to Downstream Systems</li> <li>• Sending Multi-Responses in HTTP</li> </ul> </li> <li>• Creating Service Call Activity</li> <li>• Using Service Call Activity in a Rule</li> <li>• Editing and Debugging SCAs</li> <li>• Obtain Values to Response from an External Service*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 9: Performance Modeling</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Performance Limitations of Different Licenses</li> <li>• Performance Metrics <ul style="list-style-type: none"> <li>• Virtual Service Scope</li> <li>• Operations Scope</li> </ul> </li> <li>• Performance Monitoring</li> <li>• Performance Booster</li> <li>• Batch Modeling</li> <li>• Response Time Per Response</li> <li>• Configuration for Best Performance</li> <li>• Set Response Time*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 10: Working with Service Virtualization Server</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Server Authentication</li> <li>• Configuring Access in SVM</li> <li>• Managing SV Servers</li> <li>• SV Management Features <ul style="list-style-type: none"> <li>• SV Dashboard – The Home Tab</li> <li>• Managing Services with the Services Tab</li> <li>• The Virtual Service Detail Tab</li> <li>• The Servers Tab</li> <li>• Configuring Agents</li> </ul> </li> <li>• SV Configurator</li> <li>• Resource Manager</li> <li>• Continuous Integration/Continuous Delivery (CI/CD Tools)</li> </ul>

	<ul style="list-style-type: none"> <li>• Deploying Virtual Services to an SV Server</li> <li>• Alternate Method to Deploy Virtual Service</li> <li>• Move a Virtual Service to an SV Server*</li> <li>• Summary</li> <li>• Assessment</li> </ul>
<b>Module 11: Troubleshooting Techniques</b>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Objectives</li> <li>• Troubleshooting Tools Overview <ul style="list-style-type: none"> <li>• The Message Log</li> <li>• Simulation Preview – Inspect Value Generation</li> <li>• Simulation Preview – Inspect Row Matching</li> <li>• Simulation Report</li> <li>• Simulation Report – Inspect Row Matching</li> <li>• Simulation Report – Inspecting Value Generation</li> </ul> </li> <li>• Frequent Issues and Solutions <ul style="list-style-type: none"> <li>• Frequent Issue #1</li> <li>• Frequent Issue #1 – Solution</li> <li>• Frequent Issue #2 with Solution</li> <li>• Frequent Issue #3</li> <li>• Frequent Issue #3 - Solution</li> </ul> </li> <li>• Fix a Data Model using a Simulation Report*</li> <li>• Troubleshoot with Simulation Preview*</li> <li>• Summary</li> <li>• Assessment</li> </ul>

❖ Indicates a simulation

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