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Sign up

Hyper-V & Azure Stack Hybrid Training

2 days (14 hours)

Overview

Hyper?V is Microsoft's hypervisor for virtualizing your on?premises workloads at scale. Azure Stack Hybrid (via Azure Stack Hub and Azure Stack HCI, now Azure Local) extends Azure services to the datacenter for a consistent hybrid cloud experience.

Our Hyper?V & Azure Stack Hybrid training course will enable you to deploy, administer and optimize a data-oriented hybrid platform, integrate Azure services and automate your operations with Windows Admin Center, PowerShell and Azure Arc.

You'll be able to secure, supervise and industrialize your environments, while controlling HA, DRP and costs. At the end of the course, you'll know how to install and configure Hyper?V, connect your IS to Azure, manage Azure Stack HCI/Hub and set up reliable, efficient operations.

Like all our training courses, this one covers the latest stable release and its new features, on Windows Server 2025 and Azure Local (Azure Stack HCI 24H2).

Objectives

- Design a high-performance, secure hybrid architecture
- Deploy/configure Hyper?V and Azure Stack HCI/Hub
- Automate administration (WAC, PowerShell, Az CLI)
- Implement HA, PRA, backup and security
- Monitor performance and optimize costs

Target audience

- System administrators
- Data engineers and architects

Prerequisites

- Windows Server basics, networks and virtualization
- Azure concepts (portal, resources, RBAC)

SPSS Modeler Predictive training program

Introduction to predictive modeling with SPSS Modeler

- Introduction to the SPSS Modeler environment
- Key concepts in predictive modeling
- User interface and flow navigation
- Loading and preparing data
- Understanding the different types of fields (source, target, ID, etc.)
- Workshop: Creating a first simple data flow

Data cleansing and transformation

- Integrated cleansing tools: handling missing values and duplicates
- Aggregation, merging, sampling and sorting
- Recoding, variable derivation, automatic typing
- Use of conditional selection nodes
- Workshop: Preparing a raw dataset for modeling

Data exploration and visualization

- Descriptive statistics and distribution graphs
- Correlation analysis and outlier detection
- Data segmentation with the "Cluster" node
- Creating interactive visualizations
- Workshop: Exploratory analysis on a business dataset

Selecting and training predictive models

- Overview of algorithms available in SPSS Modeler
- Classification (CART, C5.0, Random Forest, SVM)
- Regression (linear, logistic)
- Parameterization of modeling nodes
- Workshop: Implementing a supervised classification model

Model evaluation and comparison

- Cross-validation techniques
- Confusion matrices, ROC curves, gain chart
- Choosing the best model according to performance indicators
- Saving and exporting models
- Workshop: Evaluating and selecting the best-performing model

Deployment and automation of workflows

- Exporting workflows, publishing models
- Integration with other systems (SQL database, Excel, Python)
- Execution programming (batch, scheduling)
- Project documentation and sharing
- Workshop: Complete deployment of an automated workflow in production

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire is used to check that skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who completes the training course.