

SAS Innovate on tour 2024

Presentation from SAS Education in the Programmer's Corner Cloud

sas innovate on tour 2024

AI ist, was du draus machst: Erlebe spannende Aus-
die neuesten Trends und faszinierende Innovationen
und Praxis von und mit Entscheidern, Experten und

5. Juni in Frankfurt

Exklusiv für Anwender:

Tools & Tricks für KI-Technologie in der praktischen Anwendung

Programmers' Corner - Cloud

Für Entwickler

■ 14:00 Uhr

SAS Managed Next Gen

Rainer Sternecker, SAS

■ 14:20 Uhr

SAS Cloud Data Exchange

Markus Trunk, SAS

■ 14:40 Uhr

Learning Subscription für SAS Architektur und Deployment

Beate Prellwitz, SAS



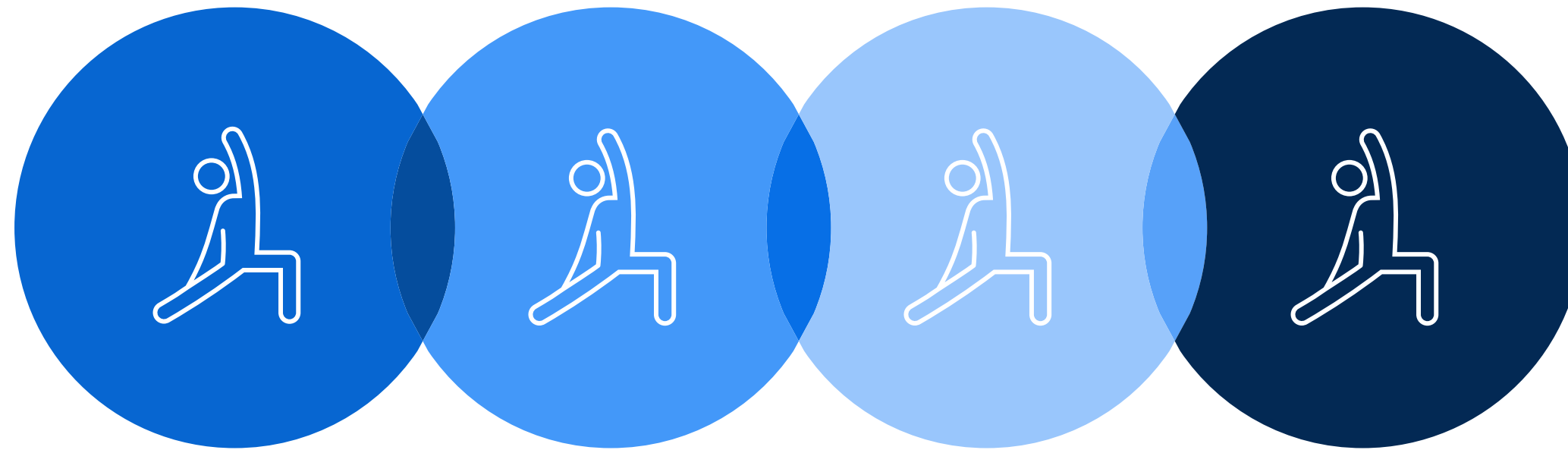
Eure Meinung ist gefragt zu – SAS Architecture and Security Learning Subscription for Viya

Beate Prellwitz: SAS Customer Training Advisor



SAS Cloud Exchange – Wie baue ich mein Wissen dazu auf?

Schritt für Schritt



1 Überblick
Aus dem Vortrag - Summary

2 Welche Ressourcen gibt es?

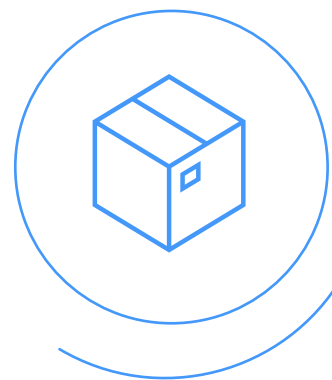
[SAS Help Center: Cloud Data Exchange for the SAS Viya Platform: Administrator's Guide](#)

3 SAS Community Library
[SAS Cloud Data Exchange for the SAS Viya Platform](#)

4 Gibt es eine Learning Subscription dazu?
[SAS Trainings Seite](#)

Cloud Data Exchange

Summary



Install Remote Data Agent

- Docker (OCI) Container
- SAS Container Registry



Define Connections

- CLI
- Security



Configure Communication

- Certificates
- Firewalls, Reverse Proxy for RDA



Create Libnames/Caslibs

- Type : Cloud Data Exchange
- Dynamic data access for Libname



Finalize Configuration

- Define Administrators and Power Users
- Deploy RDBMS clients



Use Viya as normal

- Complexity hidden from users
- CAS Action Set to move sets of data

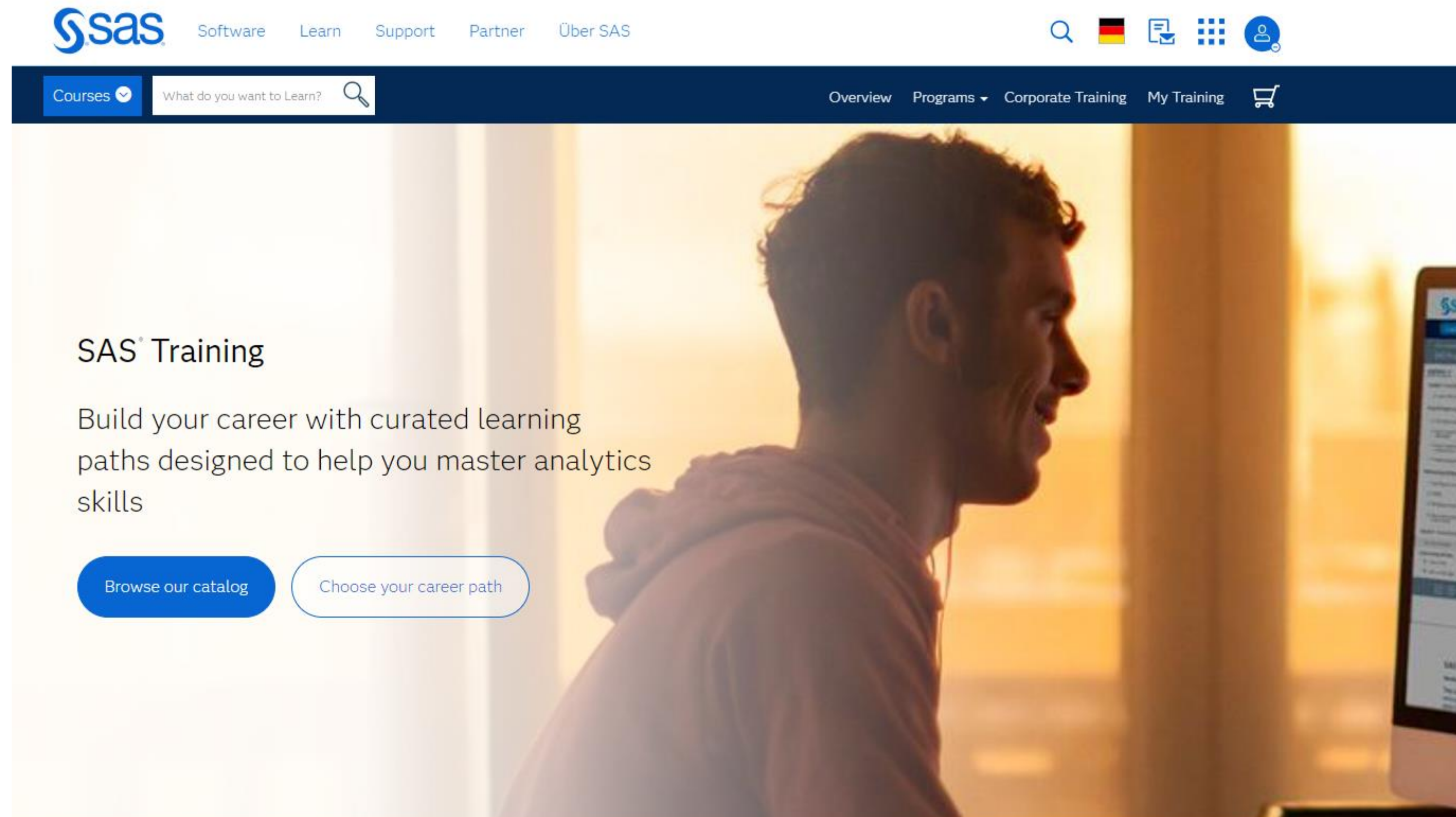
Resources

- 2 • **SAS Document :**
 - SAS Cloud Data Exchange (CDE) Administrator Guide
[SAS Help Center: Cloud Data Exchange for the SAS Viya Platform: Administrator's Guide](#)
 - Remote SAS Data Agents Deployment Guide
[SAS Help Center: Remote SAS Data Agent: Deployment and Administration Guide](#)
 - LIBNAME Engine for CDE: User's guide
[SAS Help Center: LIBNAME Engine for Cloud Data Exchange for the SAS Viya Platform: Users Guide](#)
- 3 • **SAS Communities Library**
[SAS Cloud Data Exchange for the SAS Viya Platform](#)
- 4 • **SAS Learning Subscription**
[SAS Viya: Cloud Data Exchange \(sas.com\)](#)



https://www.sas.com/de_de/training/overview.html

Browse our catalog



Learning Types

Learning Path – SAS Content Learning Subscriptions

The screenshot shows the SAS Learning Path subscriptions page. The top navigation bar includes the SAS logo, a search bar, and links for Overview, Programs, Corporate Training, and My Training. A sidebar on the left contains various filters: Visual and Business Analytics, Skills (Administration, Advanced Analytics, etc.), Levels (Advanced, Beginner, etc.), Learning Types (Certification Prep, Course, Learning Path), Price (Free), Certifications (Advanced Predictive Modeling, etc.), and Software Products (Base SAS, DataFlux Data). The main content area displays a grid of 12 subscription cards, each labeled 'LEARNING PATH' and featuring a diagram of connected nodes. The cards are: SAS 9 Data Management Learning Subscription, SAS Administration Learning Subscription, SAS Advanced Analytics Professional Subscription, SAS Advanced Machine Learning Subscription, SAS Advanced Programming Professional Subscription, SAS Advanced Regression Learning Subscription, SAS AI and Machine Learning Professional Subscription, SAS Architecture and Security Subscription, SAS Biostatistics Learning Subscription, SAS Customer Intelligence Learning Subscription, SAS Data Curation Professional Subscription, and SAS Data Engineering Learning Subscription. The 'Learning Types' filter in the sidebar and the 'SAS Architecture and Security Subscription' card are circled in red.

Visual and Business Analytics

Skills

- Administration
- Advanced Analytics Professional using SAS 9
- Advanced Machine Learning in SAS Viya
- Advanced Programming
- Advanced Regression

Levels

- Advanced
- Beginner
- Fundamental
- Intermediate
- No level

Learning Types

- Certification Prep
- Course
- Learning Path

Price

Free

Certifications

- Advanced Predictive Modeling
- Advanced Programming Professional
- Clinical Trials
- Data Curation
- Data Integration

Software Products

- Base SAS
- DataFlux Data

Sort by Alphabetical

LEARNING PATH

SAS 9 Data Management Learning Subscription

LEARNING PATH

SAS Administration Learning Subscription

LEARNING PATH

SAS Advanced Analytics Professional Subscription

LEARNING PATH

SAS Advanced Machine Learning Subscription

LEARNING PATH

SAS Advanced Programming Professional Subscription

LEARNING PATH

SAS Advanced Regression Learning Subscription

LEARNING PATH

SAS AI and Machine Learning Professional Subscription

LEARNING PATH

SAS Architecture and Security Subscription

LEARNING PATH

SAS Biostatistics Learning Subscription

LEARNING PATH

SAS Customer Intelligence Learning Subscription

LEARNING PATH

SAS Data Curation Professional Subscription

LEARNING PATH

SAS Data Engineering Learning Subscription

SAS Architecture and Security Subscription

SAS Architecture and Security Subscription

These architecture and security courses are designed for technical architects, administrators, and systems engineers responsible for designing and implementing SAS Viya environments that are secure and fit for purpose.

ENROLL FREE
7-Day Trial

Overview

Courses

Products

Certification

About this Subscription

This learning subscription includes the training that you need to gain knowledge and skills to work with the SAS Viya platform. SAS Viya is deployed within Kubernetes and can be configured to run on a variety of cloud and on-premise environments. Knowing how to design and secure the environment will ultimately ensure that the platform is used effectively. Whether you are a technical architect or administrative/operations role will benefit from engaging with this training.

Learn how to:

- Understand the overarching technical architecture of SAS Viya.
- Identify key architecture considerations when implementing Viya.
- Identify the factors that exist within a given architecture topic.
- Identify the patterns that exist for inbound and outbound authentication for use
- Configure Viya for each of the authentication patterns.
- Identify the patterns that exist for encryption in-motion.
- Configure Viya for each of the encryption patterns.
- Leverage SAS Workload Orchestrator to manage SAS Compute Server workload
- Use SAS Workload Orchestrator to specify different nodes and nodepools for g

Courses Included in Subscription

Security

COURSE

Advanced Topics in Encryption on SAS Viya

[SHOW MORE](#)

COURSE

Advanced Topics in Authentication on SAS Viya

[SHOW MORE ~](#)

Architecture

COURSE

SAS Viya Architecture

[SHOW MORE](#)

COURSE

Viya Integration with SingleStore: Architecture and Deployment Guidance

[SHOW MORE ~](#)

COURSE

SAS Viya: Cloud Data Exchange

[SHOW MORE](#)

COURSE

SAS Container Runtime: Architecture and Deployment on Azure Cloud

SHOW MORE ~

COURSE

Architecture and Administration for SAS Workload Management on SAS Viya

SAS Architecture and Security Subscription

Overview - Video

SAS Viya: Cloud Data Exchange

English

ViyaLTS2023.10

Preview mode

CONTENTS

Workshop Overview

✓ Workshop Overview 28

Using the Hands-On Lab with this Course

What's New

01 Introduction

Workshop Objectives 2:13

Microsoft Azure Workshop Environment 1:28

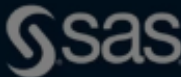
Exercise: 01 022 Validate Workshop Environment

02 Cloud Data Exchange Ecosystem

Cloud Data Exchange Environment 10:01

Introduction: Workshop Objectives

ENROLL



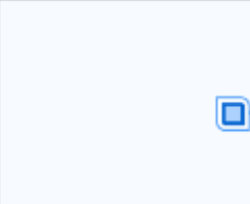
- Overview
- Hands-On Lab
- Course Materials

SAS Viya: Cloud Data Exchange

Duration: 10.5 hours

The SAS Cloud Data Exchange enables SAS users to connect and access data from a co-located database or from an on-premises database. The Cloud Data Exchange enables users to securely exchange on-premises data from behind a firewall to the SAS Viya platform in the cloud. All data transfer/exchange occurs on secured standard-based communications along with sophisticated authentication and authorization. The on-premises data center requires a single port opened through the firewall to facilitate the data exchange.

THIS COURSE IS PART




SAS Architecture and Security Subscription

Hands On Lab – Üben in einer Lab Umgebung


[Overview](#)[Hands-On Lab](#)[Course Materials](#)

The hands-on lab is preconfigured to support this course and will not support hands-on practice for all your enrolled courses.



Hands-On Lab Reservation System

When you are planning your study time, keep in mind that the virtual lab takes 60-75 minutes to start



Documentation

☐ Before you can access the hands-on lab, please read and acknowledge that you have read the documentation.

Submit

SAS Architecture and Security Subscription

Course Materials



Activities and Practices (with Solutions) for SAS Viya: Cloud Data Exchange

Course Code: DE326W, prepared date: February 6, 2024
Copyright © 2022 SAS Institute Inc., Cary, NC, USA. All rights reserved.

Lesson 01

SAS Viya: Cloud Data Exchange

Lesson 01, Section 0 Exercise: 01 022 Validate Workshop Environment

Validate the Workshop Environment

For this SAS Viya 4 - Cloud Data Exchange Workshop, you will have access to your own SAS Viya 4 environment. The environment includes one dedicated Windows client and Linux machine on RACE and several Linux machines on Azure VM machine for AKS environment.

Your access into the environment will be through the Windows machine. From that Windows machine, you will use the browser and terminal emulation software to access the backend environment.

When is my Workshop Collection ready?

After you book the workshop collection in the RACE application, many steps come into play:

- RACE machines are started
- Numerous tools are being installed, including Kubernetes
- SAS Viya is then deployed, configured and customized

This takes time, usually between 60 and 90 minutes.

⚠ ⚠ Do NOT open Chrome until the collection is ready. If you open Chrome early, it will not be updated correctly. ⚠ ⚠

Checking the Windows Client

- Connect to the Workshop Windows Client, give it a few seconds to initialize and then check for the following background message:

Preparing environment... please be patient!

SAS Architecture and Security Subscription

Course Materials



Activities and Practices (with Solutions) for SAS Viya: Cloud Data Exchange

© 2020-2023, SAS Institute Inc., Cary, NC, USA. All Rights Reserved.

Click on it to be directed to the appropriate Gitlab repository that contains the documents for this workshop. From this client machine you can copy+paste the instructions directly from the hands-on document.

Lesson 02

SAS Viya: Cloud Data Exchange

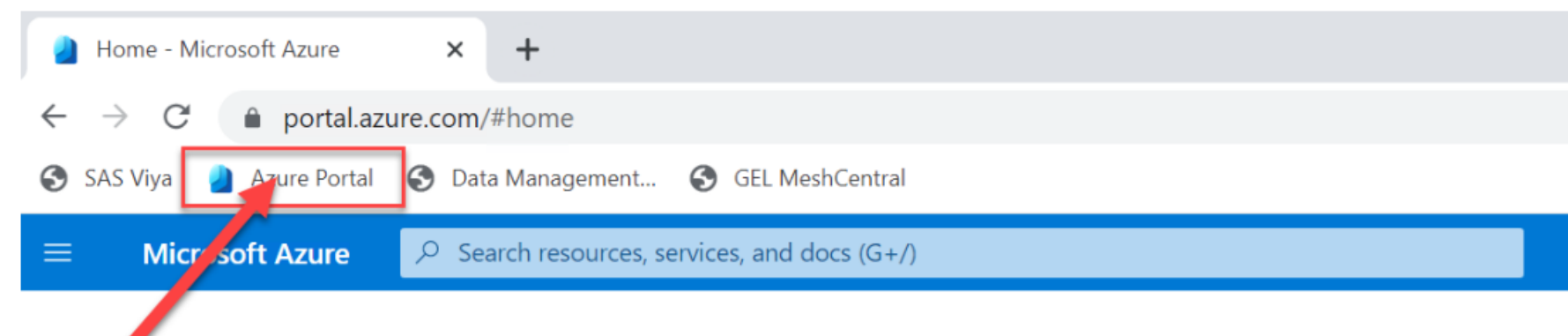
Lesson 02, Section 0 Exercise: 02 011 Update AKS NSG With Jump Server PublicIP

Update AKS NSG with AKS Jump Server Public Ip

- [Log In to Azure Dashboard and locate the AKS Resource Group](#)
- [Collect Public Ip of Jump VM server](#)
- [Update AKS NSG group with Public Ip of Jump VM server](#)

Purpose of this hands-on is to update the in-bound rule of AKS cluster NSG group with Jump Server Public Ip. In this workshop, Azure Jump server is considered as Remote Data Agent Server. This server will host CDE Remote Data Agent. To establish communication between Remi it requires the NSG update.

Log In to Azure Dashboard and locate the AKS Resource Group



SAS Content Subscription

1.030 Euro oder 2.060 Euro pro Person für 12 Monate

SAS Studio Learning Subscription

For SAS programmers, statistical programmers, and novice users who want to use SAS Studio to develop SAS code, build visual flows to process data, or perform basic statistical analysis. Novice users can use pre-defined tasks to generate SAS code.



2060 Euro

SAS Administration Learning Subscription

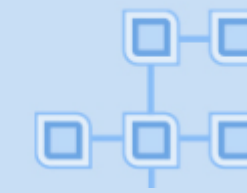
For SAS administrators responsible for installing and configuring SAS software at their company site, monitoring performance, managing employee access, and troubleshooting issues.



2060 Euro

SAS Advanced Machine Learning Subscription

For machine learning modelers who are well versed in machine learning basics and want to go deeper. These advanced machine learning courses address many different types of models and their applications in artificial intelligence.



2060 Euro

SAS Programming Learning Subscription

For programmers, statistical programmers, and data analysts who want to build a strong SAS programming foundation to manipulate data, perform complex queries and simple analyses, and create reports.



1030 Euro

Es gibt aktuell 28 Content Learning Subscriptions.

Diese enthalten ca. 5 – 20 E-learningings.

SAS Learning Subscription

4.280 Euro pro Person für 12 Monate – für alle verfügbaren E-learning

Learning Subscription
€4280 EUR per user/year

200+ On-Demand Courses*	•
Certification Practice Exams and Prep Guides*	•
Shareable Digital Badges	•
Hands-on Lab Hours	•
Progress Reports	•

Fragen

sas **innovate**
on tour