PRE-CONS@DPS 2019

FULL-DAY | DEEP-DIVE | DEMO-BASED | ADVANCED-CLASSES

August 19, 2019
#1 Power BI Service Reporting and Dashboarding
#2 SQL Server Performance Tuning
#3 Architecting a Modern Analytics Solution
#4 Building ML Solutions with Azure ML
#5 Azure Infrastructure
#6 TBD

August 20, 2019
#1 Power BI Desktop Data Modeling End-to-End
#2 Developing Your First AI Application

#3 Database Devops
#4 Supervised and unsupervised ML with Python
#5 Evolving Your Data Platform for the Cloud
#6 TBD

August 21, 2019
#1 Data Science using Databricks
#2 PowerShell for SQL DBA
#3 Modernizing ETL Solutions with SSIS in ADF
#4 App in a Day using Microsoft Power Platform
#5 SQL Server On Linux
#6 HADR - SQL Server and Azure

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Con: August 19, 20 & 21, 2019
August 22, 23 & 24, 2019
Summit

Learn More About Pre-Cons

Learn More About Registrations

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10

Copyright © DataPlatformGeeks.com (Community Initiative by Arpit Bansal & eDominer)
POWER BI SERVICE REPORTING AND DASHBOARDING END-TO-END

COVERAGE
Introducing the Power BI Service
Creating datasets
Creating reports
Assembling dashboards
Sharing Power BI content

DEMOS
End-to-end demos will reinforce all key theory presented
PRACTICAL SQL SERVER PERFORMANCE TROUBLESHOOTING & TUNING

COVERAGE
SQL Server Wait Types & Statistics
The Holy Trinity – CPU, Memory, IO
Query Execution & Query Plan Analysis
Query Tuning
Index Tuning
Dealing with Deadlocks

DEMOS
Complete 8-hr content is demo packed

AUG 19
#2

AMIT BANSAL
MCM, MVP, INDIA

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Con August 19, 20 & 21, 2019
August 22, 23 & 24, 2019 Summit

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
ARCHITECTING A MODERN ANALYTICS SOLUTION – START TO FINISH

COVERAGE
We will discuss technologies including Azure SQL Database, Azure SQL Data Warehouse, Azure Data Lake Store, Cosmos DB, Azure Data Lake Analytics, U-SQL, Azure Storage, Azure Data Factory, Azure Databricks, Spark, Hive, HDInsight, Azure Analysis Services, PolyBase, Elastic Queries, Azure Event Hub, Azure Stream Analytics, Machine Learning Services, Azure Machine Learning, Azure Cognitive Services, Power BI, PowerShell, and Azure Virtual Machines. Attendees of this session will gain a broad understanding of the fundamentals for designing data solutions in Azure, techniques for navigating the wide variety of platform choices in Azure, and suggestions for developing sound architectural systems.

DEMOS
Real-time data ingestion with stream analytics
Data flow scenarios with Azure Data Factory and Power BI
Working with Azure SQL Data Warehouse
Use of Databricks and Spark
Ingesting files from Azure Data Lake

JOEY D’ANTONI
DATA PLATFORM MVP, USA

Pre-Conference Trainings
Pre-Cons August 19, 20 & 21, 2019
August 22, 23 & 24, 2019
Summit

Data Platform Summit 2019

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
BUILDING MACHINE LEARNING SOLUTIONS WITH AZURE MACHINE LEARNING

COVERAGE
Introduction to Data Science concepts
Understanding Machine Learning Classes and Algorithms
Data Manipulation for Machine Learning
Deep dive into Algorithm Evaluation
Evaluating Solutions
Using R to create Machine Learning Solutions
Coding Machine Learning Solutions with Python
Visualizing Results in Machine Learning
Implementing a Machine Learning Solution

DEMOS
Implementing Concepts in Azure Machine Learning
Creating a Binary Classification model
Applied Data manipulation in a machine learning algorithm
Using Linear Regression
Binary Model Performance
Regression Model Performance
R with Jupyter Notebooks
Implementing Machine Learning Solutions in Python
Visualizing Cluster Analysis
Creating a callable machine learning Web Service
Implementing a solution in code

GINGER GRANT
MVP, MCT, USA

Pre-Conference Summit 2019
AZURE INFRASTRUCTURE

COVERAGE
Hybrid Identity
Best Practices for SQL Solutions
Azure Compute
Scale Sets
Open Source in Azure
Azure Security Features
Role Based Access Controls
Monitoring
Service Monitoring
Op Insights
Application Insights

DEMOS
Creating storage accounts
Creating a Shared Access Signature
Creating a vNET and Subnets
Creating a Network Security Group
Setting up Cross Network Connectivity
Setting up an Availability Set to support a SQL Server
Availability Group
Setting up Availability Zones
Creating VMs using Managed Storage
Creating VMs using Availability Sets
Creating VMs using Availability Zones

Denny Cherry
MCM, MVP, USA
POWER BI DESKTOP
DATA MODELING END-TO-END

COVERAGE
Power BI Desktop data modeling
“Getting Data” with Power Query
Creating data model relationships
Enhancing data model design with usability features
Introduction to DAX for defining data model calculations
Security data models with row-level security

DEMOS
End-to-end demos will reinforce all key theory presented

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Con August 19, 20 & 21, 2019
August 22, 23 & 24, 2019 Summit

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
DEVELOPING YOUR FIRST ARTIFICIAL INTELLIGENCE APPLICATION

POSSIBILITIES
Introduction to AI
AI Platforms
Pre-Built AI
Custom AI
Conversational AI

COVERAGE

DEMOS
Using Computer Vision and Face Recognition API to extract information and emotion from Images
Using Custom Vision API to create Image Classification Model
Knowledge Mining using Azure Cognitive Search
Azure Machine Learning in Real World Scenarios
Developing Intelligent bots using Azure Bot Framework integrating with Azure Active Directory, Graph API, LUIS and QnA Maker

ANUPAMA NATARAJAN
MVP, MCT, NEW ZEALAND

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Conf August 19, 20 & 21, 2019
August 22, 23 & 24, 2019
Summit
(Rajarathinam, Outer Ring Road, Bangalore)

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
AUTOMATION, BUILDS & CONTAINERS FOR DEVOPS – THE ABCD’S OF DEPLOYING SCALABLE DATABASE SOLUTIONS

COVERAGE

Introduce DevOps principles
Introduce Azure SQL Database and Azure SQL Managed Instance
Introduce Containers for databases and running SQL Server in Azure Kubernetes Service
DevOps for the Database: Source control and connecting a database to it
Infrastructure as Code & Continuous Integration: Automating database build in Azure from source control.
Test Driven Development – why you need to unit test your database
How to implement Continuous Delivery across multiple environments
Creating a Database Development Pipeline using Azure, containers and DevOps

DEMOS

Demo of various methods to get your database into source control – both free and paid utilities.
Demo of how to use the Azure portal (Azure PowerShell and Azure CloudShell) to commission infrastructure using code and configuring database solutions – Azure SQL Database, Azure SQL Managed Instances, SQL Server running on an Azure VM.
Demo of multiple DevOps products involved in an end-to-end on-premises SQL Server based solution
Demo of building an end-to-end cloud-based data platform
Demo of automated builds and automated deployments using Azure and DevOps
Demo of Open Source utilities used to commission infrastructure
Demo of Open Source utilities used to commission SQL Server running on docker containers
Demo of running a Kubernetes cluster for your applications and SQL Server
Demo of automated unit testing your SQL Server code in a DevOps process

HAMISH WATSON

MVP, NEW ZEALAND
SUPERVISED AND UNSUPERVISED MACHINE LEARNING WITH PYTHON

COVERAGE
- Introduction to Machine Learning
- Data Preparation Techniques
- Supervised Machine Learning
- Unsupervised Machine Learning
- Semi-supervised Machine Learning – bonus!

DEMOS
- Get the data source
- Prepare / clean – up the data
- kNN model in practice and how to tune it
- Anomaly detection
- Neural Networks primer
- Linear regression in practice and what does stochastic gradient descent means

Data Platform Summit 2019

Pre-Conference Trainings
- Pre-Congress: August 19, 20 & 21, 2019
- August 22, 23 & 24, 2019

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
EVOLVING YOUR DATA PLATFORM FOR THE CLOUD

COVERAGE
What options are there for SQL Server in the Azure cloud.
Designing cloud data platforms, IaaS VMs or PaaS
(Azure SQL DB or Managed Instance)
The differences between IaaS and PaaS
High Availability and Disaster Recovery in the cloud
Application design patterns to get the most from cloud data platforms
Summary with Q&A

DEMOS
Configuring Azure cloud prerequisites for using SQL Server
Deploy SQL Server in IaaS VMs
Deploy Azure SQL Database in Azure
Deploy Managed Instance in Azure
Configure High Availability for IaaS, SQLDB, and Managed instance
Configure Disaster Recovery for IaaS, SQLDB, and Managed Instance
Demonstrate how performance can be impacted by different workloads
and some optimization options.

JOHN Q. MARTIN
DATA PLATFORM MVP, UK

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10
BUILDING DATA SCIENCE SOLUTIONS USING AZURE DATA BRICKS

COVERAGE
Introduction to Databricks environment
Hadoop and Apache Spark Basics
Jupyter Notebooks and Python Foundations
Machine Learning Data Requirements
Data extraction and Understanding with Spark
Creating Machine Learning Models
Evaluating Machine Learning Models
Production Machine Learning Pipelines in Databricks
Machine Learning Data Processing with Databricks

DEMONS
Demo Databricks
Moving Data into Databricks
Python in Jupyter Notebooks
Shaping and Cleaning Data with Python
Preprocessing data with Apache Spark
Applying Data Science Concepts to the data in Databricks
Evaluating the results of the Machine Learning models
Building Machine Learning Pipelines in Databricks
Demo all the concepts covered to create start to finish solution

GINGER GRANT
MVP, MCT, USA

Copyright © DataPlatformGeeks.com (Community Initiative by Amit Bansal & eDominer)
AUTOMATING DEPLOYMENT AND MANAGEMENT OF YOUR DATA PLATFORM

COVERAGE
Adopting the DevOps mindset
What is PowerShell DSC
Your first DSC configuration – Deploying SQL Server
DSC Push configurations for managing SQL Server
Automating configuration with on-premises pull servers
Automating configuration with Azure Automation
Customising DSC for your needs
Summary with Q&A

DEMOS
PowerShell development environment tools, what and how-to setup.
Building a DSC configuration to deploy a SQL Server system, then deploy the SQL Server.
Building a DSC configuration to manage the configuration of SQL Server
How to manage the Windows Operating System with DSC
Build and configure a DSC Pull Server on-premises
Configure Azure automation for use with DSC
How to use GitHub to manage your DSC Configurations and modules

JOHN Q. MARTIN
DATA PLATFORM MVP, UK

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10

Copyright © DataPlatformGeeks.com (Community Initiative by Amit Bansal & eDominer)
BACK TO THE FUTURE: MODERNIZING YOUR ETL SOLUTION IN THE CLOUD WITH SSIS IN AZURE DATA FACTORY

COVERAGE
Lifting & Shifting your ETL workflow with SSIS in ADF
Modemnizing your ETL workflow with SSIS in ADF
Extending your ETL workflow with SSIS in ADF

DEMONS
Configure Azure-SSIS IR to access data on premises using Windows authentication, Virtual Network (VNet) injection, Self-Hosted IR as proxy, etc.

Leverage ADF connectivity (+80 connectors), store secrets in Azure Key Vault (AKV), connect using Azure Active Directory (AAD) authentication with ADF managed identity, automatically provision Azure-SSIS IR on demand/just in time, trigger jobs/runs by file arrivals/deletions, etc.

Splice built-in/custom/Open Source/3rd party data transformations, such as Power Query Source, Data Quality (Matching/Cleansing) components, etc.

SANDY WINARKO
PRINCIPAL PROGRAM MANAGER, MICROSOFT, CHINA
APP IN A DAY USING MICROSOFT POWER PLATFORM

COVERAGE
- Introduction to Power Platform
- PowerApps Canvas Apps and Lab Introduction
- Canvas Apps Deep-drive
- Common Data Service for Apps Deep-drive
- Model-driven Apps Deep-drive
- Microsoft Flow Deep-drive

DEMOS
Includes a lot of demos

SIVA HARINATH
PRINCIPAL PROGRAM MANAGER, MICROSOFT, USA

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Con: August 19, 20 & 21, 2019
August 22, 23 & 24, 2019 Summit
Radisson Blu (Outer Ring Road, Bengaluru)

Book Your Seat Now
Note: Price Increases 1st of Every Month
www.DPS10.com #DPS10
DEPLOYING & MAINTAINING SQL SERVER ON LINUX PLATFORM

COVERAGE
Operating system architecture
Security Model
File manipulation
Common commands and using them together
Bash and Korn shells
Shell scripting
File systems and Volume Managers
Clustering in Linux
MySQL and Postgres
Monitoring O/S performance and More...

DEMOS
Installing SQL Server on Kubernetes
Building an Availability Group in Linux
PSSDiag collection on Linux
SQL Server 2019 New Features
Backup and restore on Postgres
Managing MySQL tables

JOEY D’ANTONI
DATA PLATFORM MVP, USA

Book Your Seat Now

Data Platform Summit 2019
Pre-Conference Trainings
Pre-Congress: August 19, 20 & 21, 2019
August 22, 23 & 24, 2019
Summit

Note: Price Increases 1st of Every Month
www.DPS10.com
#DPS10

Copyright © DataPlatformGeeks.com (Community Initiative by Amit Bansal & eDominer)
HADR - SQL SERVER & AZURE

COVERAGE
Networking and Active Directory Requirements
Quorum Options for Azure
Setup and Configuration of a multi-site Windows Cluster
Setup and Configuration of a multi-site SQL Server Availability Group
Troubleshooting Always On Availability Groups

DEMOS
Settings up the Azure Networking
Windows Quorum
The configuration of a Windows Cluster
The Configuration of a SQL Server Availability Group
Troubleshooting an Always On Availability Group

Denny Cherry
MCM, MVP, USA
DPS 2019 CONFERENCE & PRE-CONFERENCE REGISTRATIONS OPEN

Book Your Seat Now

Note: Price Increases 1st of Every Month

www.DPS10.com

#DPS10

contact@DPS10.com | +91 9606482133 | +91 8217320907