WEEK 1: FOUNDATION (BA AND AGILE)

(18/08/2023)

By-

Vanshika Gupta (Batch-6)

A common mistake people make concerning software is assuming that the majority of software development is programming.

Out of all these processes, maintenance dominates the cost of the life cycle.

Since maintenance costs are so important, many developers are beginning to use design approaches that result in software which is easier to maintain.

Contents

Topics Covered

- What is Business Analysis?
- Types of requirements
- Requirement Traceability
- SDLC Models
- Agile Practices and sprint

What is Business Analysis?

- Business analysis is the practice of enabling change in an organizational context, by defining needs and recommending solutions that deliver value to stakeholders.

- It is the discipline of:
  (i) Identifying business needs.
  (ii) Gathering requirements.
  (iii) Analysing the requirements.
  (iv) Documenting the requirements.

Basically, they help guide businesses in improving processes, products, services and software through data analysis.

Types of software requirements

Without well written document:

- Developers do not know what to build.
- Customers do not know what to expect.
- What to validate.

Requirements describe **WHAT** not **HOW**.
Produces one large document written in natural language containing a description of what the system will do without describing how it will do it.

Functional requirements

Non-Functional requirements

Known requirements

Unknown requirements

Undreamed requirements

Requirement Traceability

- It ensures that each business need is tied to an actual requirement, and that each requirement is tied to a deliverable.

- Basically, there needs/requirements are tied/mapped to test cases or defects/failure and reverse engineering can be done to find the requirement from where the defect came from.
- It is the ability to trace a requirement forward and backwards in the development life cycle.

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G8 Completed

S.No.	Req ID	Epic (Req Desc)	User Story	TC ID	TC Design	Test Design	Test Designer	UAT test Req?	Test Execution			Defects?	Defect ID	Defect Status	Req Coverage Status
									Test Env	UAT Env	Prod Env				
1	Req01	Login to the applcation	As a user, when the user enters the credential, gets redirected to the same/next page	TC01	Login with invalid credentials	Completed	vanshika	no	passed	no run	no run	yes	DFCT001	Test ok	Partial
2				TC02	Login with valid username and invalid password	Completed	vanshika	no	passed	no run	no run	yes	DFCT002	Test ok	Partial
3				TC03	Login with a invalid username and valid password	Completed	vanshika	no	passed	no run	no run	yes	DFCT003	Test ok	Partial
4				TC04	Login with a valid username and password	Completed	vanshika	yes	passed	passed	no run	none	none	N/A	Partial
5			As a user, when the user forgets the password, gets redirected to the password recovery page	TC05	Login with recovery e-mail/ phone number	Completed	vanshika	yes	passed	passed	no run	none	none	N/A	Partial

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S.No.	Req ID	Epic (Req Desc)	User Story	TC ID	TC Design	Test Design	Test Designer	UAT test Req?	Test Execution			Defects?	Defect ID	Defect Status	Req Coverage Status
									Test Env	UAT Env	Prod Env				
1	Req01	Login to the applcation	As a user, when the user enters the credential, gets redirected to the same/next page	TC01	Login with invalid credentials	Completed	vanshika	no	passed	no run	no run	yes	DFCT001	Test ok	Partial
2				TC02	Login with valid username and invalid password	Completed	vanshika	no	passed	no run	no run	yes	DFCT002	Test ok	Partial
3				TC03	Login with a invalid username and valid password	Completed	vanshika	no	passed	no run	no run	yes	DFCT003	Test ok	Partial
4				TC04	Login with a valid username and password	Completed	vanshika	yes	passed	passed	no run	none	none	N/A	Partial
5			As a user, when the user forgets the password, gets redirected to the password recovery page	TC05	Login with recovery e-mail/ phone number	Completed	vanshika	yes	passed	passed	no run	none	none	N/A	Partial
6			As a user, when the user forgets the username, gets redirected to the username recovery page	TC06	Login with recovery e-mail/ phone number	Completed	vanshika	yes	passed	passed	no run	none	none	N/A	Partial

Software Development Life Cycle (SDLC) Models

The software development life cycle (SDLC) is the process of planning, writing, modifying, and maintaining software. Developers use the methodology as they design and write modern software for computers, cloud deployment, mobile phones, video games, and more.

Two types of models studied under SDLC:
(i) Waterfall
(ii) Agile

Waterfall Model

- Simple and easy to understand and use
- Easy to manage due to the rigidity of the model. Each phase has specific deliverables and a review process.
- Phases are processed and completed one at a time.
- Works well for smaller projects where requirements are very well understood.
- Clearly defined stages.
- Well understood milestones.
- Easy to arrange tasks.
- Process and results are well documented.

Agile Development Model

- Working through Pair programming produces well-written compact programs which have fewer errors as compared to programmers working alone.
- It reduces the total development time of the whole project.
- Agile development emphasizes face-to-face communication among team members, leading to better collaboration and understanding of project goals.
- Customer representatives get the idea of updated software products after each iteration. So, it is easy for him to change any requirement if needed.
- Agile development puts the customer at the center of the development process, ensuring that the end product meets their needs.

Scrum

Scrum is the type of Agile framework. It is a framework within which people can address complex adaptive problem while productivity and creativity of delivering product is at highest possible values. Scrum uses Iterative process.

Silent features of Scrum are:

1. Scrum is light-weighted framework
2. Scrum emphasizes self-organization
3. Scrum is simple to understand
4. Scrum framework help the team to work together

Sprint

A Sprint is a time box of one month or less. A new Sprint starts immediately after the completion of the previous Sprint.

Release: When the product is completed, it goes to the Release stage.
Sprint Review: If the product still has some non-achievable features, it will be checked in this stage and then passed to the Sprint Retrospective stage.
Sprint Retrospective: In this stage quality or status of the product is checked.
Product Backlog: According to the prioritize features the product is organized.
Sprint Backlog: Sprint Backlog is divided into two parts Product assigned features to sprint and Sprint planning meeting.

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K6

	A	B	C	D	E	F	G	H
1	LOGIN APPLICATION							
2	**S.No.**	**Epic**	**User Story**	**Retrospective**	**Outcome of retrospective**	**Story points**	**Priority**	**Hours allocated**
3	1	Login to the application	As a user, when the user enters the credential, gets redirected to the same/next page	What went well	The way our team coordinated and worked on different user stories went well	5	2	10
4					Allocation of story points, priority and hours			
5	2		As a user, when the user forgets the password, gets redirected to the password recovery page	What went bad	We were a bit slow while making the login application and describing it's functionality using devops	8	7	12
6					Communication gap was there			
7	3		As a user, when the user forgets the username, gets redirected to the username recovery page	What could be better	Time- management for us to understand the concepts related to story points and priority could have been better	5	2	8
8					We as a team and the internet connectivity could have been more efficiently			

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	A	B	C	D	E	F	G	H
1					LOGIN APPLICATION			
2	**Test case ID**	**Test case description**	**Pre-requisites/Pre-conditions**	**Test step**	**Test data/ Test input**	**Expected Results**	**Actual Results**	**Test Result (Pass/Fail)**
3	TC001	Test case for valid entry of user name and password and for successful user login	1. User id and password should exist in the system. 2. Token should be generated while logging-in.	Step 1: Invoke the Internet Explorer and type in the URL name	https://mail.google.com	The Gmail homepage should be displayed	The Gmail homepage was displayed	Passed
4	TC002			Step 2: In the username field, enter a valid value	vgsecretgupta18@gmail.com	The field should accept the Username	The field accepted entered Username	Passed
5	TC003			Step 3: In the password field, enter a valid value	xyz	The field should accept the password	The field accepted entered password	Passed
6	TC004			Step 4: Click on log-in button	Select/ activate log-in button	The user should be logged in and the user's G-mail page should be displayed	The user was able to log-in and the user's G-mail page is displayed	Passed

Custom Track [DBMS] (Week-1)

- **Data:** Raw facts, unorganized, unprocessed information
  Exp.: Marks/result of classes and school

- **Information:** Processing of data, organized
  Exp.: Avg. Marks, Pass % of school

Three types of data:

- **Structured->** (Strictly bounded by schema) Example- tables

Structured data is the data which conforms to a data model, has a well define structure, follows a consistent order and can be easily accessed and used by a person or a computer program.
Structured data is usually stored in well-defined schemas such as Databases. It is generally tabular with column and rows that clearly define its attributes.

- **Semi-Structured->** (not bounded by schema) Example- json

Semi-structured data is data that does not conform to a data model but has some structure. It lacks a fixed or rigid schema. It is the data that does not reside in a rational database but that have some organizational properties that make it easier to analyze. With some processes, we can store them in the relational database.

- **Unstructured->** Unstructured data is the data which does not conforms to a data model and has no easily identifiable structure such that it can not be used by a computer program easily. Unstructured data is not organised in a pre-defined manner or does not have a pre-defined data model, thus it is not a good fit for a mainstream relational database. Example- media

Data Fundamentals

- **What Is Data?**
- **Types Of Data**
- **What Is Database?**
- **What Does Data Engineer Do?**
- **Normalization And Denormalization**
- **Normalization Forms (1NF, 2NF, 3NF, BCNF)**
- **Dependencies (Partial, Transitive, Functional)**
- **Attribute Keys (Candidate, Primary, Foreign, Super)**
- **Anomalies- Insert, Update, Delete**
- **Data Modelling And ER Diagram**
- **Activity- To Make An ER Diagram For Ordering A Book From Online Store, Perform Normalization**
- **Dimensional Modelling**
- **Fact Table And Dimension Table**
- **Star Schema & Snowflake Schema**
- **Activity- Implement The Concepts Of Star And Snowflake Schema By Drawing Respective Diagrams**
- **SCD (Slowly Changing Dimension)**

Database (Database Management System [DBMS]): Collection of inter-related data. Set of programs to store and access the data in an easy and effective manner.
Database systems are basically developed for large amount of data. When dealing with huge amount of data, there are two things that require optimization: Storage of data and retrieval of data.

* Storage: According to the principles of database systems, the data is stored in such a way that it acquires lot less space as the redundant data (duplicate data) has been removed before storage.
* Fast Retrieval of data: Along with storing the data in an optimized and systematic manner, it is also important that we retrieve the data quickly when needed. Database systems ensure that the data is retrieved as quickly as possible.

Q. What is the best way to store the data?
Ans. Save all files as tables.

ER Diagram for entities:

- **Book**
- **Author**
- **Publisher**
- **Customer**
- **Order**

Big data and Azure Service Fundamentals

- What Is Data?
- What Is Big Data?
- 4 V's Of Big Data - Volume, Variety, Velocity, Veracity
- Batch And Stream Data Processing.
- Extract, Load, Transform(ETL) Pipelines
- How To Process Big Data?
  a. Hadoop
  b. Pyspark
- Parallel Processing And Distributive Computing
- Hadoop Used For Batch Processing & Pyspark Used For Stream Processing.
- Types Of Data Structure
  a. Structured Data
  b. Semi-structured Data
  c. Unstructured Data
- Data Warehouse -
  a. Save Data As Object
     i. Tables
     ii. Views
  b. Structured Data (Fixed Schema-data Allocated Even If Value Is Null)
  c. Dimension Modelling
  d. ACID Property In DBMS -
     i. Atomicity
     ii. Consistency
     iii. Isolation
     iv. Durability
- Datalake -
  a. Saves All Types Of Data (Structured, Semi-structured And Unstructured)
  b. Flexible Schema (No Data Allocated For Null Values)
  c. No ACID Properties

Big data and Azure Service Fundamentals (Contd.)

- **Data Lakehouse**
  a. Combination Of Data Warehouse And Datalake.
  b. Took Advantages Of Both Data Warehouse And Datalake.
- **Creating A VM Using Microsoft Azure.**
- **What Is Cloud Computing.**
- **Types Of Cloud -**
  1. **Public Cloud**
  2. **Private Cloud**
  3. **Hybrid Cloud**
- **Cloud Benefits -**
  1. **High Availability**
  2. **Scalability**
  3. **Agility**
  4. **Fault Tolerance**
  5. **Elasticity**
  6. **Security**
  7. **Disaster Recovery**
  8. **Customer Latency Capabilities**
- **Compare Capex(capital Expenditure) Vs OpEx (operational Expenditure) - Cloud Is OpEx.**
- **Infrastructure As A Service (IAAS)**
- **Platform As A Service (PAAS)**
- **Software As A Service (SAAS)**
- **Shared Responsibility Model**
- **Serverless Computing**

Azure Service Fundamentals (Contd.)

- **Azure Architecture**
  a. Regions
  b. Region Pairs
  c. Availability Zones
- **Azure Resources**
- **Azure Subscriptions -**
  i. Billing Boundary
  ii. Access Control Boundary
- **Azure Resource Manager**
- **Resource Groups**
- **Subscriptions -> Resource Groups**

Azure SQL

- **Setting Up Azure SQL Services By Logging In On Azure Portal.**
- **SQL Deployment Options For Azure SQL:**
    1. **SQL Database**
    2. **SQL Managed Instances**
    3. **SQL Virtual Machines**
- **Select SQL Database -> Single Database -> Create Database.**
- **Introduction To SQL**
- **Database Created On Microsoft Azure SQL.**
- **Running Query Editor On Our Server.**
- **DDL (Data Definition Language): create, Alter, Drop, Truncate**
- **DML(data Manipulation Language): Select, Insert, Update, Delete**
- **DCL(data Control Language): grant, REVOKE**
- **Constraints**
- **View: View Is A Virtual Table Based On The Result-set Of An SQL Statement.**
- **Schema In Sql**
- **Difference Between DELETE, DROP, TRUNCATE.**
- **Activity : Create Tables For Online Book Store**
- **Group By Clause**
- **Having Clause : For Filtration**
- **Where Clause**
- **GRANT: Grant Select Permission On <Table_name> To <User>**
- **Revoke**

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- Create a resource
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- SQL databases
- Azure Cosmos DB
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Name	Type	Last Viewed
VGDB (vgdbserver/VGDB)	SQL database	11 hours ago
vgdbserver	SQL server	11 hours ago
VGEP	SQL elastic pool	12 hours ago
RG_IDAShell_08	Resource group	12 hours ago

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Home > VGDB (vgdbserver/VGDB)

VGDB (vgdbserver/VGDB) | Query editor (preview)

SQL database

- Overview
- Activity log
- Diagnose and solve problems
- Query editor (preview)

Integrations

- Stream analytics (preview)

Security

- Data Discovery & Classification
- Identity (preview)
- Transparent Data Encryption (preview)

Intelligent Performance

- Performance overview

Automation

- Tasks (preview)

Login | New Query | Open query | Feedback | Getting started

Showing limited object explorer here. For full capability please click here to open Azure Data Studio.

- Tables
  - dbo.BuildVersion
  - dbo.ErrorLog
  - SalesLT.Address
  - SalesLT.Customer
  - SalesLT.CustomerAddress
  - SalesLT.Product
  - SalesLT.ProductCategory
  - SalesLT.ProductDescription
  - SalesLT.ProductModel
  - SalesLT.ProductModelProductDe
  - SalesLT.SalesOrderDetail
  - SalesLT.SalesOrderHeader
- Views
- Stored Procedures

Query 1 | Query 2 | Query 4

Run | Cancel query | Save query | Export data as | Show only Editor

```
1   SELECT TOP (1000) * FROM [SalesLT].[Product]
```

Results | Messages

Search to filter items...

ProductID	Name	ProductNumber
680	HL Road Frame - Black, 58	FR-R92B-58
706	HL Road Frame - Red, 58	FR-R92R-58
707	Sport-100 Helmet, Red	HL-U509-R

Query succeeded | 12s

Azure | Search resources, services, and docs (G+/) | Shellunext_1693422033... UNEXT (NPUNEXT.ONMICROSOF...

bases > idashelldb (idashellserver/idashelldb)

ldb (idashellserver/idashelldb) | Query editor (preview)

New Query | Open query | Feedback | Getting started

.Address
.Customer
.CustomerAddress
.Product
uctID (PK, int, not null)
e (Name, not null)
uctNumber (nvarchar, not
r (nvarchar, null)
dardCost (money, not null)
ice (money, not null)
nvarchar, null)
ht (decimal, null)
ctCategoryID (int, null)
ctModelID (int, null)
artDate (datetime, not
dDate (datetime, null)
ntinuedDate (datetime,
bNailPhoto (varbinary,
nailPhotoFileName

Query 1 | Query 2

Run | Cancel query | Save query | Export data as | Show only Editor

```
create nonclustered index ix_product_productcgid on SalesLT.product(productcategoryid)

select * from [SalesLT].[Product] p
inner join
[SalesLT].[ProductCategory] pc on pc.ProductCategoryID = p.ProductCategoryID
inner join
[SalesLT].[SalesOrderDetail] od on od.ProductID = p.ProductID
```

Results | Messages

Search to filter items...

ProductID	Name	ProductNumber	Color
707	Sport-100 Helmet, Red	HL-U509-R	Red
707	Sport-100 Helmet, Red	HL-U509-R	Red
707	Sport-100 Helmet, Red	HL-U509-R	Red

Query succeeded | 10s

idashelldb (idashellserver/idashe

portal.azure.com/#@npunext.onmicrosoft.com/resource/subscriptions/205450d4-d6d3-4ed8-...

Microsoft Azure

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SQL databases > idashelldb (idashellserver/idashelldb)

idashelldb (idashellserver/idashelldb) | Query editor (preview)

SQL database

Login | New Query | Open query | Feedback | Getting started

- SalesLT.Address
- SalesLT.Customer
- SalesLT.CustomerAddress
- SalesLT.Product
  - ProductID (PK, int, not null)
  - Name (Name, not null)
  - ProductNumber (nvarchar, not null)
  - Color (nvarchar, null)
  - StandardCost (money, not null)
  - ListPrice (money, not null)

Query 1 | Query 2

Run | Cancel query | Save query | Export data as | Show only Editor

```
1
2  create nonclustered index ix_product_productcgid on SalesLT.product(productcategoryid
3
4  select * from [SalesLT].[Product] p
5  inner join
6  [SalesLT].[ProductCategory] pc on pc.ProductCategoryID = p.ProductCategoryID
7  inner join
8  [SalesLT].[SalesOrderDetail] od on od.ProductID = p.ProductID
```

Azure Fundamentals

- Regions
- Region Pairs
- Availability Zones
- Azure Resources
- Azure Subscription
- Azure Resource Manager
- Resource
- Resource Groups

Azure Storage Types

- Create A Resource -> Azure Storage Account
- Resource Group
- Storage Account
- Storage Services
- Redundancy
  1. Local Redundancy
  2. Zone Redundancy
  3. Geo Redundancy
  4. Geo Zone Redundancy
- RAGRS (Read Access Geo Redundant Storage)
  1. Failover
  2. Synchronous Replication
- Security
- Access Protocols
- Access Tiers
  1. Hot
  2. Cold
  3. Cool
  4. Archive Access
- Purging & Archiving
- Containers - Folder For Storing Files
- Azure Tables
- Azure Queues
- File Shares
- Snapshots
- Ingress & Egress
- Static Website

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Azure services

- Create a resource
- Storage accounts
- Azure SQL
- Subscriptions
- Quickstart Center
- Virtual machines
- App Services
- SQL databases
- Azure Cosmos DB
- More services

Resources

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Name	Type	Last Viewed
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RG_IDAShell	Resource group	2 hours ago

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Navigate

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vgidashellstorage

Storage account

Search

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser
- Storage Mover

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

Upload | Open in Explorer | Delete | Move | Refresh | Open in mobile | CLI / PS | Feedback

Essentials

JSON View

Resource group (move)	: RG_IDAShell	Performance	: Standard
Location	: East US	Replication	: Locally-redundant storage (LRS)
Subscription (move)	: npunext-1673505473558	Account kind	: StorageV2 (general purpose v2)
Subscription ID	: 765d731e-d850-488f-a71d-f2780c6ebdba	Provisioning state	: Succeeded
Disk state	: Available	Created	: 9/4/2023, 11:34:06 AM

Tags (edit) : Add tags

Properties | Monitoring | Capabilities (7) | Recommendations (0) | Tutorials | Tools + SDKs

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot
Blob anonymous access	Disabled
Blob soft delete	Disabled
Container soft delete	Enabled (7 days)
Versioning	Disabled
Change feed	Disabled

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled

Networking

Allow access from All networks

Microsoft Azure

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Home > vgidashellstorage

vgidashellstorage | Containers

Storage account

Search

- Overview
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- Storage Mover

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

Container | Change access level | Restore containers | Refresh | Delete | Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
$blobchangefeed	9/4/2023, 11:39:20 AM	Private	Available
$logs	9/4/2023, 11:34:33 AM	Private	Available
idavg01	9/4/2023, 11:42:56 AM	Private	Available
idavg02	9/4/2023, 11:43:59 AM	Private	Available

vgidashellstorage | Activity log

Storage account

Search
Overview
Activity log
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Data storage
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File shares
Queues
Tables

Security + networking

Activity | Edit columns | Refresh | Export Activity Logs | Download as CSV | Insights | Feedback | ...

Looking for Log Analytics? In Log Analytics you can search for performance, diagnostics, health logs, and more. Visit Log Analytics

Search | Quick Insights

Subscription : **npunext-1673505473558** | Event severity : **All** | Timespan : **Last 6 hours** | Resource group : **RG_IDAShell** | Resource : **vgidashellstorage** | Add Filter

9 items.

Operation name	Status	Time	Time stamp	Subscription	Event initiated by
Update Storage Account Create	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put blob container	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put blob container	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
List Storage Account Keys	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put blob service properties	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put storage account manageme	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put blob service properties	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...
Put storage account manageme	Succeeded	2 hours ago	Mon Sep 04...	npunext-1673505473558	Shellunext_169342222016...

Home >

gen2vgidashell_1693809327638 | Overview

Deployment

Search

- Overview
- Inputs
- Outputs
- Template

Delete | Cancel | Redeploy | Download | Refresh

Your deployment is complete

Deployment name: gen2vgidashell_169...
Subscription: npunext-1673505473558
Resource group: RG_IDAShell

Start time: 9/4/2023, 12:05:37 PM
Correlation ID: 9a42ca56-6172-4b55-862c-74b722

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.

Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

vgidashellstorage | Storage browser

Storage account

Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover

Data storage
Containers
File shares
Queues
Tables

Security + networking

vgidashellstorage
- Favorites
- Recently viewed
- Blob containers
- File shares
  - vgfileshare1
  - View all
- Queues
- Tables

Add file share | Refresh | Delete share | Connect | Edit columns

File shares

Search file shares by prefix | Only show active file shares

Showing all 1 items

Name	Tier	Modified	Quota
vgfileshare1	Transaction optimized	9/4/2023, 3:03:40 PM	5 TiB

vgidashellstorage | Storage browser

Storage account

Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Storage Mover

Data storage
Containers
File shares
Queues
Tables

Security + networking

vgidashellstorage
- Favorites
- Recently viewed
- Blob containers
- File shares
  - vgfileshare1
  - View all
- Queues
- Tables

Upload | Add directory | Refresh | Delete | Copy | Paste | Rename

File shares > vgfileshare1

Authentication method: Access key (Switch to Azure AD User Account)

Search files by prefix

Showing all 1 items

Name	Type	Size
Heyooo world)).txt	File	18 B

vgidashellstorage | File shares

Storage account

Search

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser
- Storage Mover

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

+ File share | Refresh

File share settings

Active Directory (SMB): Not configured | Default share-level permissions: Disabled | Soft delete: 14 days | Maximum capacity: 5 TiB

Security: Maximum compatibility

Search file shares by prefix (case-sensitive) | Show deleted shares

Name	Modified	Tier	Quota
vgfileshare1	9/4/2023, 3:03:40 PM	Transaction optimized	5 TiB

notepad.pw | Exercise - Cr | microsft azur | Connect - Mi | Home | sap concur e | Concur - Exp

https://portal.azure.com/#view/Microsoft_Azure_FileStorage/FileShareMenuBlade/~/ov...

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT (NPUNEXT.ONMICROSOF...

Home > vgidashellstorage | File shares >

vgfileshare1

SMB File share

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)
- Browse

Operations

- Snapshots
- Backup

Connect | Upload | Refresh | Add director

Essentials

Storage account	: vgidashellstorage
Resource group (move)	: RG_IDAShell
Location	: East US
Subscription (move)	: npunext-1673505473558
Subscription ID	: 765d731e-d850-488f-a71d-f2780c6

Properties | Capabilities (2) | Tutorials

Size

Maximum capacity	5 TiB
Used capacity	18 B
Tier	Transaction c

Performance

Maximum IO/s	1000
Ingress rate	60 MiB / s
Egress rate	60 MiB / s

Connect

vgfileshare1

Authentication method

- ○ Active Directory
- ◉ Storage account key

Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory identity of the user is preferred. Learn more

Hide Script

```
$connectTestResult = Test-NetConnection -ComputerName
vgidashellstorage.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:`"vgidashellstorage.file.core.windows.net`"
/user:`"localhost\vgidashellstorage`"
/pass:`"6nzQxKB0VGkwFXB4bG4kEWtZJqp6bwypKQJ84sADETWCN3G63UJPO+HBCL
qQq8I8EFHqOH/qh9a6+AStu55COg==`""
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root
"\\vgidashellstorage.file.core.windows.net\vgfileshare1" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445.
Check to make sure your organization or ISP is not blocking port 445, or use Azure
P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different
port."
}
```

Copied

Recycle Bin
9:15 AM
9/4/2023

Recycle Bin

Administrator: Windows PowerShell

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

 Test-NetConnection - 52.239.170.72:445
    Attempting TCP connect

    Waiting for response

"6nzQxKB0VGkwFXB4bG4kEWtZJqp6bwypKQJ84sADETWCN3G63UJPO+HBCLqQq8I8EFHqOH/qh9a6+AStu55COg==`""
>>     # Mount the drive
>>     New-PSDrive -Name Z -PSProvider FileSystem -Root "\\vgidashellstorage.file.core.windows.net\vgfile1" -Persist
>> } else {
>>     Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organizatio
n or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a di
fferent port."
>> }

CMDKEY: Credential added successfully.
```

9:32 AM
9/4/2023

Introduction to data factory

Components of ADF:

- **Pipelines**
- **Activities**
- **Datasets**
- **Linked Services**
- **Integration Runtime**
- **Trigger**
- **Data Flow**

Azure Storage types & data factory (Contd.)

1. Access Keys : Lifetime
2. SAS (Shared Access Signature): Time-bounded
3. Azure Key Vaults
4. Access Control (IAM): Check Access Here
5. Azure Data Factory:
    a. Data Engineer Activities:
        i. ETL (Extract, Transform, Load)
        ii. ELT
        iii. Azure Databricks - Transformation
    b. Data Orchestration
    c. ADF Components:
        i. Pipelines: Combination of one or more activities
        ii. Activities
        iii. Datasets
        iv. Linked Services: To access a particular directory ‘this’ is used.
        v. Integration Runtime: Gateway or Bridge to connect for Data Extraction.
            * Azure Auto Resolved (Default)
            * Self-hosted
            * Azure SSIS
        vi. Triggers
        vii. Data Flow
    d. Parameterization
    e. Pipelines

https://adf.azure.com/en/authoring/pipeline/PL_IDA_01?factory=%2Fsubscriptions%2F765d7...

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Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click here to get started with Fabric Data Factory!

Data Factory | Validate all | Publish all | Preview experience Off

Factory Resources

Filter resources by name

- Pipelines 1
  - PL_IDA_01
- Change Data Capture (preview) 0
- Datasets 2
  - DelimitedText1
  - DelimitedText2
- Data flows 0
- Power Query 0

PL_IDA_01 | DelimitedText1 | DelimitedText2

Activities

metadata

General

Get Metadata

Validate | Debug | Add trigger

Parameters | Variables | Settings | Output

ID: f57fde8e63de

status
consumption

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 2 of 2 items

Activity name	Activity status	Activity type	Run start
Get Metadata1	Succeeded	Get Metadata	9/6/2023, 2:28:16 PM
Copy_Customer	Succeeded	Copy data	9/6/2023, 2:28:06 PM

https://adf.azure.com/en/authoring/pipeline/PL_IDA_01?factory=%2Fsubscriptions%2F765d7...

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  - DelimitedText1
  - DelimitedText2
- Data flows 0
- Power Query 0

PL_IDA_01 | DelimitedText1 | DelimitedText2

Activities

metadata

General

Get Metadata

Validate | Debug | Add trigger

Copy data
Copy_Customer

Get Metadata
Get Metadata1

Output

Copy to clipboard


```
{
    "size": 36911156,
    "effectiveIntegrationRuntime":
"AutoResolveIntegrationRuntime (East US)",
    "executionDuration": 0,
    "durationInQueue": {
        "integrationRuntimeQueue": 0
    },
    "billingReference": {
```


status
consumption

Metrics | Export to CSV

		type	Run start
Get Metadata1	Succeeded	Get Metadata	9/6/2023, 2:28:16 PM
Copy_Customer	Succeeded	Copy data	9/6/2023, 2:28:06 PM

https://adf.azure.com/en/authoring/pipeline/PL_IDA_01?factory=%2Fsubscriptions%2F765d7...

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Data Factory | Validate all | Publish all | Preview experience Off

PL_IDA_01 | DelimitedText1 | DelimitedText2

Activities

set

General

(x) Set variable

Validate | Debug | Add trigger

Copy data
Copy Customer

Get Metadata
Get Metadata1

Set variable
(x) Set variable1

Output

Copy to clipboard


```
{
    "name": "get_size",
    "value": 36911156
}
```


Pipeline status Succeeded | View debug run consumption

Monitor in Azure Metrics | Export to CSV

		type	Run start	Duration	Log
Set variable1	Succeeded	Set variable	9/6/2023, 2:39:55 PM	Less than 1s	
Get Metadata1	Succeeded	Get Metadata	9/6/2023, 2:39:51 PM	2s	

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Data Factory | Validate all | Publish all | Preview experience Off

PL_IDA_01 | DelimitedText1 | DelimitedText2

Activities

set

General

(x) Set variable

Validate | Debug | Add trigger

Parameters | Variables | Settings | Output

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 3 of 3 items

Activity name	Activity status	Activity type	Run start	Duration	Log
Set variable1	Succeeded	Set variable	9/6/2023, 2:39:55 PM	Less than 1s	
Get Metadata1	Succeeded	Get Metadata	9/6/2023, 2:39:51 PM	2s	
Copy_Customer	Succeeded	Copy data	9/6/2023, 2:39:40 PM	10s	

https://adf.azure.com/en/authoring/pipeline/PL_IDA_02?factory=%2Fsubscriptions%2F765d7...

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Data Factory | Validate all | Publish all | Preview experience Off

PL_IDA_01 | DelimitedText1 | DelimitedText2 | PL_IDA_02

Validate | Debug | Add trigger

Output

Copy to clipboard | Learn more on output details


```
{
    "dataRead": 36911156,
    "dataWritten": 36911156,
    "filesRead": 1,
    "filesWritten": 1,
    "sourcePeakConnections": 9,
    "sinkPeakConnections": 9,
    "copyDuration": 7,
    "throughput": 18455.5781,
```


Pipeline status: Succeeded | View debug run consumption

Monitor in Azure Metrics | Export to CSV

		ity type	Run start	Duration	Log	Integration runtime
Copy data2	Succeeded	Copy data	9/6/2023, 3:27:23 PM	10s		AutoResolveIntegratior
If dataset size is above 10 kb	Succeeded	If Condition	9/6/2023, 3:27:22 PM	12s		
Get Metadata2	Succeeded	Get Metadata	9/6/2023, 3:27:19 PM	3s		AutoResolveIntegratior

https://adf.azure.com/en/authoring/pipeline/PL_IDA_02?factory=%2Fsubscriptions%2F765d7...

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Data Factory | Validate all | Publish all | Preview experience Off

PL_IDA_01 | DelimitedText1 | DelimitedText2 | PL_IDA_02

Validate | Debug | Add trigger

Parameters | Variables | Settings | Output

Pipeline run ID: 32dae953-a423-44b7-8021-011d84dd0065 **Pipeline status** Succeeded View debug run consumption

All status | List | Monitor in Azure Metrics | Export to CSV

Showing 1 - 3 of 3 items

Home - Microsoft Azure | Pricing Calculator | Microsoft Az | Total Cost of Ownership (TCO) C | thosictarungen2storage-second

https://thosictarungen2storage-secondary.z13.web.core.windows.net

Hello Guys!!!

Have a Nice Day.

78°F
Rain tomorrow

Search

4:52 PM
9/4/2023

Data Factory Fundamentals (Contd.)

- **CDC Implementation and Architecture**
- **Real-time Data Synchronization with CDC**
- **Introduction to Azure Error Handling and Debugging**
- **Azure Monitoring and Alerting**
- **Azure Automation and Task Scheduling**
- **Best Practices and Troubleshooting Techniques**

https://portal.azure.com/#home

Microsoft Azure

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UNEXT

Azure services

- Create a resource
- Storage accounts
- Data factories
- Resource groups
- Key vaults
- All resources
- Virtual machines
- Azure SQL
- Subscriptions
- More services

Resources

Recent | Favorite

Name	Type	Last Viewed
vgnormiestorage01	Storage account	a few seconds ago
vgstorageidashell	Storage account	11 minutes ago
RG_IDAshell_01	Resource group	2 hours ago
vgdf01	Data factory (V2)	2 hours ago

See all

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgnormiestorage01 | Containers >

input

Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Access policy
- Properties
- Metadata

Upload | Change access level | Refresh | Delete | Change tier | Acquire lease | Break lease | View snapshots

Authentication method: Access key (Switch to Azure AD User Account)
Location: input

Search blobs by prefix (case-sensitive) | Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type
customer.csv	9/7/2023, 9:29:13 AM	Hot (Inferred)		Block blob
lineitem.csv	9/7/2023, 9:29:14 AM	Hot (Inferred)		Block blob
nation.csv	9/7/2023, 9:29:12 AM	Hot (Inferred)		Block blob
orders.csv	9/7/2023, 9:29:14 AM	Hot (Inferred)		Block blob
part.csv	9/7/2023, 9:29:13 AM	Hot (Inferred)		Block blob
partsupp.csv	9/7/2023, 9:29:14 AM	Hot (Inferred)		Block blob
region.csv	9/7/2023, 9:29:13 AM	Hot (Inferred)		Block blob
supplier.csv	9/7/2023, 9:29:13 AM	Hot (Inferred)		Block blob

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com UNEXT

Data Factory | Validate all | Publish all | Preview experience Off

Factory Resources

Filter resources by name

- Pipelines 1
  - PL_IDA_01
- Change Data Capture (preview) 0
- Datasets 3
  - DS_Customer_Source
  - DS_Destination
  - DS_Orders_Source
- Data flows 1
  - DF_IDA_01
- Power Query 0

PL_IDA_01 | DF_IDA_01 | DS_Customer_Source | DS_Orders_Source | DS_Destina

Validate | Debug | Add trigger | Data flow debug

Data flow

Data flow1

Parameters | Variables | Settings | Output

Pipeline run ID: e8dc7bf1-a072-4bcd-acaa-fcc19277196d

Pipeline status Succeeded

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity status	Run start	Duration	Integration runtime	User
Data flow1	Succeeded	9/7/2023, 11:21:42 AM	52s	debugpool-8Cores-Ge	

https://adf.azure.com/en/authoring/dataflow/DF_IDA_01?factory=%2Fsubscriptions%2...

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com UNEXT

Data Factory | Validate all | Publish all 1 | Preview experience Off

Factory Resources

Filter resources by name

- Pipelines 1
  - PL_IDA_01
- Change Data Capture (preview) 0
- Datasets 3
  - DS_Customer_Source
  - DS_Destination
  - DS_Orders_Source
- Data flows 1
  - DF_IDA_01
- Power Query 0

DF_IDA_01 | DS_Customer_Source | DS_Orders_Source | DS_Destination

Validate | Data flow debug | Debug Settings

Parameters | Settings

+ New

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgstorageidashell | Containers >

output

Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Manage ACL
- Access policy
- Properties
- Metadata

Upload | Add Directory | Refresh | Rename | Delete | Change tier | Acquire lease | Break lease | Give feedback

Authentication method: Access key (Switch to Azure AD User Account)
Location: output

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type
_SUCCESS	9/7/2023, 11:21:51 AM	Hot (Inferred)		Block blob
part-00000-c70dbaa9-5674-4e55-a09d-161ac6f55...	9/7/2023, 11:21:50 AM	Hot (Inferred)		Block blob

https://adf.azure.com/en/authoring/dataflow/DF_IDA_02?factory=%2Fsubscriptions%2...

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Data Factory | Validate all | Publish all | Preview experience Off

DS_Orders_Source | DS_Destination | PL_IDA_02 | DF_IDA_02 | DS_Orders_Sales_So... | DS_OrdersDetails_Sa

Validate | Data flow debug | Debug Settings

Parameters | Settings

+ New

Properties

General | Related

Name *

DF_IDA_02

Description

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgnormiestorage01

vgnormiestorage01 | Containers

Storage account

Search

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser
- Storage Mover

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

+ Container | Change access level | Restore containers | Refresh | Delete | Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
$logs	9/7/2023, 9:23:23 AM	Private	Available
input	9/7/2023, 9:28:41 AM	Private	Available
sales	9/7/2023, 11:30:46 AM	Private	Available

https://portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/...

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Home > vgnormiestorage01 | Containers >

sales

Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Access policy
- Properties
- Metadata

Upload | Change access level | Refresh | Delete | Change tier | Acquire lease | Break lease | View snapshots

Authentication method: Access key (Switch to Azure AD User Account)
Location: sales

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

Name	Modified	Access tier	Archive status	Blob type
OrderDetails.csv	9/7/2023, 11:31:19 AM	Hot (Inferred)		Block blob
Orders.csv	9/7/2023, 11:31:19 AM	Hot (Inferred)		Block blob
SalesTarget.csv	9/7/2023, 11:31:19 AM	Hot (Inferred)		Block blob

https://adf.azure.com/en/authoring/pipeline/PL_IDA_02?factory=%2Fsubscriptions%2F...

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Data Factory | Validate all | Publish all | Preview experience Off

Factory Resources

Filter resources by name

- **Pipelines** 2
  - PL_IDA_02
  - PL_IDA_01
- **Change Data Capture (preview)** 0
- **Datasets** 6
  - DS_Customer_Source
  - DS_Destination
  - DS_Destination2
  - DS_Orders_Sales_Source
  - DS_Orders_Source
  - DS_OrdersDetails_Sales_Source
- **Data flows** 2
  - DF_IDA_02
  - DF_IDA_01
- **Power Query** 0

DS_Orders_Source | DS_Destination | PL_IDA_02 | DF_IDA_02

Validate | Debug | Add trigger | Data flow debug

Data flow

Data flow2

Parameters | Variables | Settings | Output

Pipeline run ID: 5bfbee7b-00fe-4217-b734-f10aaaa35de0

View debug run consumption

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity status	Run start
Data flow2	Succeeded	9/7/2023, 11:45:25 AM

Properties

General | Related

Name *

PL_IDA_02

Description

Annotations

+ New

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com UNEXT

Data Factory | Validate all | Publish all | Preview experience Off

DS_Orders_Source | DS_Destination | PL_IDA_02 | DF_IDA_02 | DS_Orders_Sales_So... | DS_OrdersDetails_Sa

Validate | Data flow debug | Debug Settings

Parameters | Settings

+ New

Properties

General | Related

Name *

DF_IDA_02

Description

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgstorageidashell | Containers >

output2

Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Manage ACL
- Access policy
- Properties
- Metadata

Upload | Add Directory | Refresh | Rename | Delete | Change tier | Acquire lease | Break lease | Give feedback

Authentication method: Access key (Switch to Azure AD User Account)
Location: output2

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type
_SUCCESS	9/7/2023, 11:45:33 AM	Hot (Inferred)		Block blob
part-00000-10f7956e-f278-4d30-88d2-c5007caf9f...	9/7/2023, 11:45:32 AM	Hot (Inferred)		Block blob

vgstorageidashell | Containers

Storage account

Search
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser

Data storage
Containers
File shares
Queues
Tables

Security + networking
Networking

+ Container | Change access level | Restore containers | Refresh | Delete | Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
$logs	9/7/2023, 9:16:52 AM	Private	Available
output	9/7/2023, 11:18:11 AM	Private	Available
output2	9/7/2023, 11:45:10 AM	Private	Available

https://adf.azure.com/en/authoring/pipeline/PL_IDA_03?factory=%2Fsubscriptions%2F...

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Data Factory | Validate all | Publishing 4 | Preview experience Off

DS_Orders_Sales_So... | DS_OrdersDetails_Sal... | DS_Destination2 | PL_IDA_03 | DS_Sales_Source | DS_Sales_Destination

Activities

for

Move and transform

- Copy data
- Data flow

Iteration & conditionals

- ForEach

Validate | Debug | Add trigger

Parameters | Variables | Settings | **Output**

Pipeline run ID: 9d6e1e62-63f5-470c-beab-cdc8346de0ba | **Pipeline status** Succeeded | Added debug run consumption

Data flow activity for this debug run will start as soon as the data flow debug session is ready.

All status | List | Monitor in Azure Metrics | Export to CSV

Showing 1 - 5 of 5 items

Activity name	Activity status	Run start	Duration	Integration runtime	User properties
Copy data1	Succeeded	9/7/2023, 3:06:53 PM	8s	AutoResolveIntegratior	

https://adf.azure.com/en/authoring/pipeline/PL_IDA_03?factory=%2Fsubscriptions%2F...

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Data Factory | Validate all | Publish all | Preview experience Off

Factory Resources

Collapse resources pane

Filter resources by name

- PL_IDA_03
- PL_IDA_01
- PL_IDA_02
- Change Data Capture (pr... 0
- Datasets 9
  - DS_Customer_Source
  - DS_Destination
  - DS_Destination2
  - DS_Orders_Sales_Source
  - DS_Orders_Source
  - DS_OrdersDetails_Sales_Sour...
  - DS_Sales_Destination
  - DS_Sales_Source
  - DS_Source_Sales
- Data flows 2
  - DF_IDA_01

Activities

for

- Move and transform
  - Copy data
  - Data flow
- Iteration & conditionals
  - ForEach

DS_OrdersDetails_Sal... | DS_Destination2 | PL_IDA_03 | DS_Sales_Source

Validate | Debug | Add trigger

Parameters | Variables | Settings | Output

Showing 1 - 5 of 5 items

Activity name	Activity status	Run start	Duration	Int
Copy data1	Succeeded	9/7/2023, 3:06:53 PM	8s	Aut
Copy data1	Succeeded	9/7/2023, 3:06:53 PM	8s	Aut
Copy data1	Succeeded	9/7/2023, 3:06:53 PM	8s	Aut
ForEach1	Succeeded	9/7/2023, 3:06:52 PM	11s	
Get Metadata1	Succeeded	9/7/2023, 3:06:47 PM	3s	Aut

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com UNEXT

Data Factory | Validate all | Publish all 4 | Preview experience Off

Factory Resources

Collapse resources pane

Filter resources by name

- Change Data Capture (pr... 0
- Datasets 11
  - DS_Customer_Source
  - DS_Destination
  - DS_Destination2
  - DS_Json1_Source
  - DS_Orders_Sales_Source
  - DS_Orders_Source
  - DS_OrdersDetails_Sales_Sour...
  - DS_Sales_Destination
  - DS_Sales_Source
  - DS_Source_Sales
  - DS_Json1_Destination
- Data flows 2
  - DF_IDA_01
  - DF_IDA_02

DS_Sales_Source | DS_Sales_Destination | PL_IDA_04 | DS_Json1_Source

Activities

Search activities

- Move and transform
  - Copy data
  - Data flow
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Validate | Debug | Add trigger

Copy data

Copy data1

Parameters | Variables | Settings | Output

Pipeline run ID: 82dfb57c-6c5f-435c-8551-c92c1debde5f

View debug run consumption

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 1 of 1 items

Activity name | Activity status

Properties

General | Related

Name *

PL_IDA_04

Description

Annotations

+ New

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com UNEXT

Data Factory | Validate all | Publish all 4 | Preview experience Off

PL_IDA_03 | DS_Sales_Source | DS_Sales_Destination | PL_IDA_04 | DS_Json1_Source | DS_Json1_Destination

Activities

Search activities

- Move and transform
  - Copy data
  - Data flow
- Synapse
- Azure Data Explorer
- Azure Function
- Batch Service
- Databricks
- Data Lake Analytics
- General
- HDInsight
- Iteration & conditionals
- Machine Learning
- Power Query

Validate | Debug | Add trigger

Copy data

Copy data1

Parameters | Variables | Settings | Output

Pipeline run ID: 82dfb57c-6c5f-435c-8551-c92c1debde5f

View debug run consumption | **Pipeline status**

All status | Monitor in Azure Metrics | Export to CSV

Showing 1 - 1 of 1 items

Activity name	Activity status	Run start	Duration
Copy data1	Succeeded	9/7/2023, 3:22:26 PM	8s

Properties

General | Related

Name *

PL_IDA_04

Description

Annotations

+ New

Microsoft Azure | Data Factory ▸ vgdf01 | Search factory and documentation | Shellunext_1693422220162@npunext.onmicrosoft.com

Data Factor

PL_IDA_

Activities

Search a

Move an

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Synapse

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Databricl

Data Lak

General

HDInsigh

Iteration

Machine

Power Q

Details

Refresh

Learn more on copy performance details from here.

Activity run id: 3c8d6ff5-85d2-432a-8e88-59bb30c6cae1

HTTP → Succeeded → Azure Data Lake Storage Gen2
Region: East US

Data read:	2.471 KB	Data written:	2.471 KB
Files read:	1	Files written:	1
Peak connections:	1	Peak connections:	1

Copy duration	00:00:05
Throughput:	2.471 KB/s

HTTP → Azure Data Lake Storage Gen2

Start time	9/7/2023, 3:22:27 PM
Used DIUs	4
Used parallel copies	1
Duration	00:00:05

Details	Working duration	Total duration
Queue		00:00:03

How satisfied or dissatisfied are you with the performance of this copy activity?

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgstorageidashell

vgstorageidashell | Containers

Storage account

Search

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)
- Data migration
- Events
- Storage browser

Data storage

- Containers
- File shares
- Queues
- Tables

Security + networking

- Networking

+ Container | Change access level | Restore containers | Refresh | Delete | Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
$logs	9/7/2023, 9:16:52 AM	Private	Available
output	9/7/2023, 11:18:11 AM	Private	Available
output2	9/7/2023, 11:45:10 AM	Private	Available
output3	9/7/2023, 3:06:58 PM	Private	Available
output4	9/7/2023, 3:22:32 PM	Private	Available

Microsoft Azure | Search resources, services, and docs (G+/) | Shellunext_1693422220... UNEXT

Home > vgstorageidashell | Containers >

output4

Container

Search

- Overview
- Diagnose and solve problems
- Access Control (IAM)

Settings

- Shared access tokens
- Manage ACL
- Access policy
- Properties
- Metadata

Upload | Add Directory | Refresh | Rename | Delete | Change tier | Acquire lease | Break lease | Give feedback

Authentication method: Access key (Switch to Azure AD User Account)
Location: output4

Search blobs by prefix (case-sensitive)

Show deleted objects

Name	Modified	Access tier	Archive status	Blob type
todos	9/7/2023, 3:22:32 PM	Hot (Inferred)		Block blob

Data Factory Fundamentals (Contd.)

- **CDC Implementation and Architecture**
- **Real-time Data Synchronization with CDC**
- **Introduction to Azure Error Handling and Debugging**
- **Azure Monitoring and Alerting**
- **Azure Automation and Task Scheduling**
- **Best Practices and Troubleshooting Techniques**

THANK YOU!

Made By-
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