
WHAMTECH SMARTDATA FABRIC® IMPLEMENTATION PARTNER RECOMMENDED SKILLS AND EXPERIENCE

REVISION 1.1

Before training begins, the team members need to be selected who are capable of performing the tasks that SmartData Fabric® tools require. The following are a list of roles and skills that team members should have some experience with, but not necessarily all listed, before working with SmartData Fabric®:

Data Engineering Experience:

- Good relationships with data source system owners and DBAs
- Various data source types: Mainframes, RDBMS, Big Data SQL, NoSQL and non-SQL data
- Good working knowledge of file handling: FTP, encryption and compression
- General understanding of the function of scripts and system commands
- Running data extract, Changed Data Capture (CDC) and streaming data tools
- Experience with database connectivity (both between databases and between database systems and clients to databases) in a diverse computing environment
- Knowledge of stored procedures and data transformation
- Familiar with access control security, e.g., AD/LDAP, IAM, RBAC, ABAC/RLS and CLS
- Able to isolate problems between hardware and software, and provide information to appropriate development team(s)
- Highly developed, process-oriented skills for troubleshooting, problem solving and problem resolution
- Hands-on experience with RDBMSs, file systems, local area networks, distributed computing environments and information technologies

ETL/Data Warehousing Experience (some overlap with the Data Engineering):

- ETL, data modeling and data architecture
- Data management, data warehousing and data marts
- Various data source types: Mainframes, RDBMS, Big Data SQL, NoSQL and non-SQL data
- Familiarity with unstructured data and text analytics
- Data discovery, profiling, transformation, quality, standards, security, lineage and governance
- Experience with Master Data management (MDM), metadata repositories and other systems of reference
- APIs – planning, design and implementation – and familiarity with HTTP and invoking web-APIs
- Work closely with data engineers, scientists and data/business analysts
- Work with business users to understand the business objectives
- Work with cloud and data architects to define robust architectures in cloud, on-premise, in data centers, SaaS and multi-cloud
- Workflow management

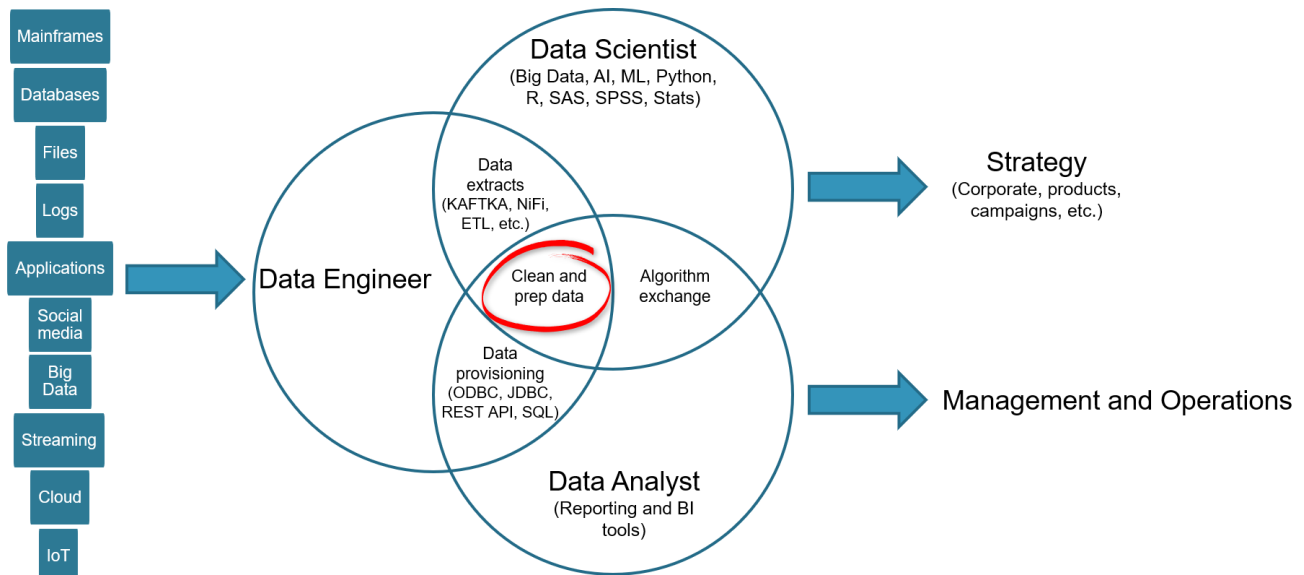
**Data/Business Analysis Experience:**

- Learn, publish, analyze and improve management information dashboards, operational business metrics decks and key performance indicators
- Design, setup, execute and administer web-serving solutions.
- Solid experience in SQL
- Understanding of database theory and experience in at least one relational DBMS
- Knowledge on distributed applications/enterprise applications is plus.
- Strong knowledge of data structures, algorithms and designing for performance and scale.
- Familiarity with ETL
- Business Analysis
- Reporting/BI apps such as Tableau, Power BI and QlikView
- Attention to detail
- Ability to troubleshoot
- Able to define and document issues, e.g., work with Atlassian/Jira

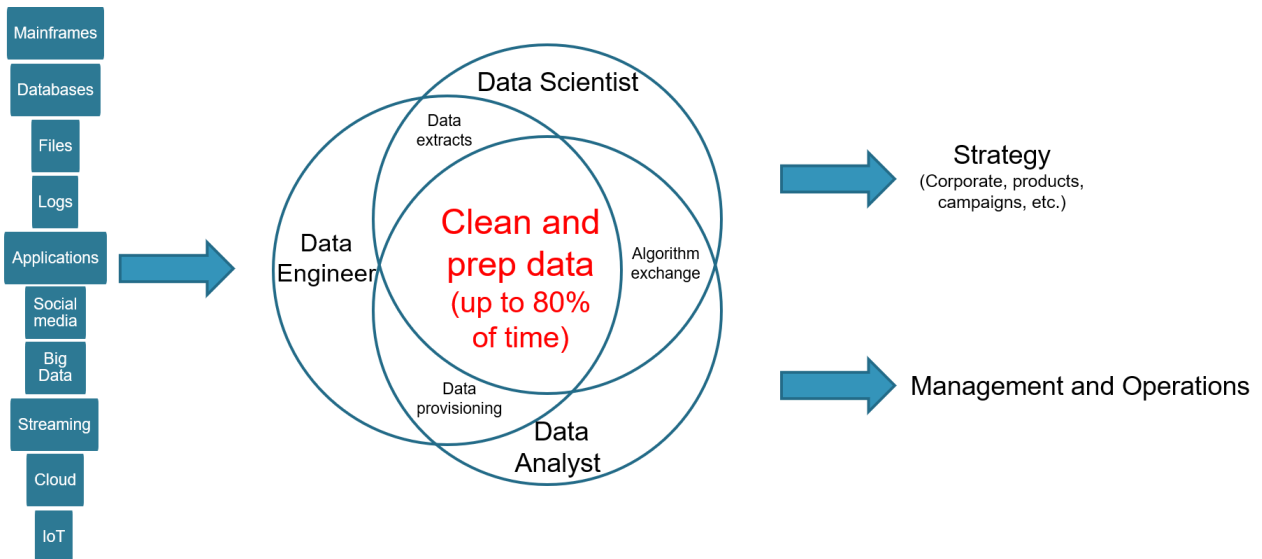
The number of team members with particular skills should be balanced. For example, a team of 5 members would be organized as such;

- Three (3) with ETL/data warehouse experience, as that is the majority of the work with our tools.
- One (1) data engineer, as they would be needed on the data discovery/sourcing/profiling side of things, assessing needs by data scientists and data analysts.
- One (1) data/business analyst who can help set up reports, BI and analytics.

WhamTech's goal is to enable the ideal data world and responsibilities depicted in the image below.



The reality is, Data Engineers, Scientists and Analysts spend a vast majority of their time cleaning and prepping data rather than their other daily tasks and responsibilities.



A well-balanced team with the right skills and training in SmartData Fabric® will help enable the ideal data world and customer focus on delivering business value.

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