Big Data Products & Services
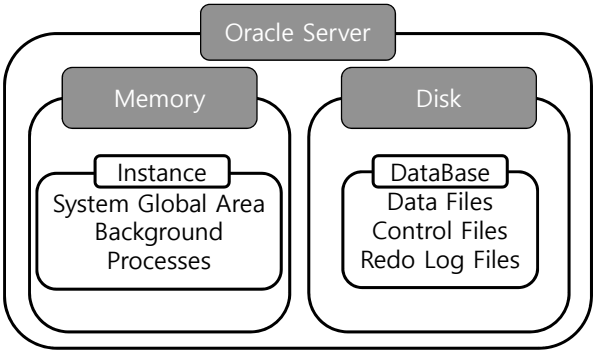
Oracle

Oracle

❖ **Oracle**

- Founded in June 16, 1977 in California, USA

- Product platform: Oracle DBMS

- Ranking
  - 3rd in Big Data Corporation
  - 3rd in Big Data Software
  - 6th in Big Data Hardware

Oracle

❖ Oracle's Main Service

- Oracle DBMS
  - Oracle Server's In Memory and Disk

```
                    ┌──────────────────┐
                    │  Oracle Server   │
          ┌─────────┴──────┬───────────┴─────────┐
      ┌───┴────┐      ┌─────┴────┐
      │ Memory │      │   Disk   │
   ┌──┴────────┴──┐ ┌─┴──────────┴─┐
   │ ┌─Instance─┐ │ │ ┌─DataBase─┐ │
   │ │System Global│ │ │ Data Files │
   │ │    Area    │ │ │Control Files│
   │ │ Background │ │ │Redo Log Files│
   │ │ Processes  │ │ │            │
   │ └──────────┘ │ │ └──────────┘ │
   └──────────────┘ └──────────────┘
```

Big Data

HPE

Hewlett Packard
Enterprise

HPE

❖ **HPE**

- Hewlett Packard Enterprise

  Hewlett-Packard Company was founded in January 1, 1939 in CA, USA

- In 2015, HP divided computer manufacturing/sales to 'HP Inc' and cloud services to 'HPE'

HPE

❖ **HPE**

- Ranking
  - 4th in Big Data Corporations
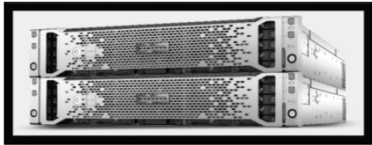 - 1st in Big Data Hardware

HPE

❖ HPE's Main Service

- HPE Server - Apollo Family

Apollo 2000 Systems	Apollo 4000 Systems	Apollo 6000 Systems
• 1U and 2U chassis	• 2U and 4U chassis	• Up to **2 processors** per node – 14-**28 Cores - 2.5 GHz**
• Up to 4 hot-pluggable server nodes	• 28 LFF or **54 SFF hot-plug drives**	
• DDR4-2666/**1.5 TB**/ 16 DIMM slots	• Available with HPE Performance Software Suite and HPE Insight CMU (Cluster Management Utility)	• **4** SFF **HDD/SSD** – 4 NVMe SSD option and 2 internal M.2 optional
• Up to **24** SFF **HDD/SSD** or up to 16 NVMe SSD and two 2280 M.2 optional, with HPE Performance Software Suite and HPE Insight CMU (Cluster Management Utility)		• DDR4-2666/**1.5 TB**/ 16 DIMM slots

HPE

❖ HPE's Main Service

- HPE Server - Apollo Family

Apollo 2000 Systems
• 1U and 2U chassis
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HPE

❖ HPE's Main Service

- HPE Server - Apollo Family
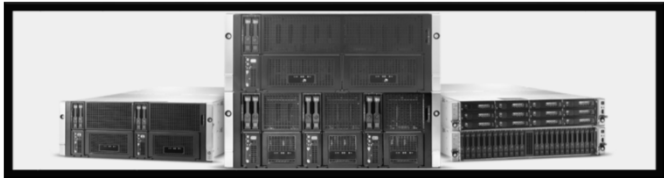
Apollo 4000 Systems
• 2U and 4U chassis
• **28 LFF** or **54 SFF hot-plug drives**
• Available with HPE Performance Software Suite and HPE Insight CMU (Cluster Management Utility)

HPE

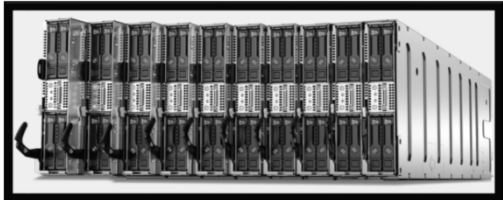### ❖ HPE's Main Service

- HPE Server - Apollo Family

Apollo 6000 Systems
• Up to **2 processors** per node – 14-**28 Cores** - **2.5 GHz**
• **4** SFF **HDD/SSD** – 4 NVMe SSD option and 2 internal M.2 optional
• DDR4-2666/**1.5 TB**/16 DIMM slots

HPE

❖ HPE's Main Service

- HPE StoreEasy 1550 Storage

Differentiator	Affordable getting started tower file storage to consolidate your users' documents, images, audio, and videos.
Form factor	4.5U towe
Number of users	Up to **1850**
Network controller	(1) Broadcom 5717 **1 GbE** 2-port standard; options for **10 GbE**
Storage controller	(1) HPE Smart Array P440/4 GB FBWC
Drive type	LFF Enterprise SAS, Mid-line SAS and SATA HDDs; LFF Enterprise Value, Mainstream, Light and Boot SSDs
Storage capacity	**80 TB** maximum internal using optional 4 LFF drive cage for a total of **8 drive slots**
Protocols	SMB (CIFS), NFS, FTP and FTPS, HTTP and HTTPS, WebDAV, iSCSI
Data services	File Sync and Share, Sub File Deduplication and compression, Snapshots, Replication, File Classification, File Screening, Quotas, Reporting
Management	StoreEasy Dashboard and Server Manager, Integrated Lights-Out 4 (iLO 4) with Advanced License
Warranty	3-year parts exchange, 1-year labor, 1-year on-site, and next business day response for hardware; 1-year 9x5 telephone support for software

HPE

❖ HPE's Main Service

- HPE 8GB NVDIMM Memory Module

NVDIMM type	NVDIMM-N
NVDIMM rank	Single rank
NVDIMM capacity	**8 GB**
Native speed (MT/s)	2133
Non-volatile media	NAND flash
Backup power source	HPE Smart Storage Battery1
Max number of NVDIMMs	162
Max NVDIMM capacity (single server)	**128 GB**
Compatible DIMM types	RDIMMs only3
Dimensions (W x D x H)	5.25 in x .25 in x 1.23 in (2.54 cm x 64 cm x 3.12 cm)
Weight	.5 lbs (.24 kg)

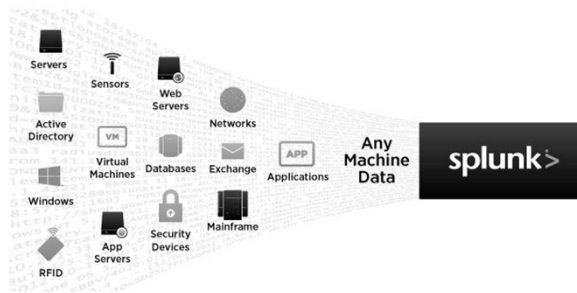Big Data Products & Service
Splunk

splunk>

Splunk

❖ **Splunk**

- Founded in 2003

- Intelligence business operation products include software for searching, monitoring, and analyzing machine-generated big data

- Provides web-style UI (User Interface)

- Ranking
  - 6th in Big Data Corporations
  - 2nd in Big Data Software

Splunk

❖ Splunk's Main Service

- ▪ Splunk Enterprise

Splunk

❖ Splunk's Main Service

- ▪ Splunk Enterprise
  - • Collect & Index Data
    - All data types are acceptable and can be indexed regardless of format, location, metrics, logs, clickstreams, sensors, web servers, application, etc.
  - • Search & Investigate
    - Splunk Search Processing Language enables powerful searching of data and information
  - • Correlate & Analyze
    - Relationships between events and activates are revealed and analyzed

Splunk

❖ **Splunk's Main Service**

- Splunk Enterprise
  - Visualize & Report
    - Trends & characteristics easily visualized in custom dashboards
    - Business, operational & security reports supported
  - Monitor & Alert
    - Real-time alerts and automatically trigger notifications via email or RSS are easily setup
  - Access from Anywhere
    - Secure access for administrators and users from anywhere

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Big Data Products & Services

Accenture

> **accenture**

Accenture

❖ **Accenture**

- Founded in 1989

- Provides management strategy, consulting, and Big Data solutions

- Solutions provider in strategy, consulting, digital, technology and operations

- Ranking
  - 7th in Big Data Corporations
  - 2nd in Big Data Professional Services

Big Data Products & Service

Dell

Dell

❖ Dell

- Founded in 1984

- In 2016, Dell acquired EMC Corporation which had acquired VMware, thus Dell possesses EMC and VMware technology

- Manufactures, sells, repairs, and services PC, Server, Storage, and Cloud software

- Ranking
  - 8th in Big Data Corporations
  - 3rd in Big Data Hardware

Dell

❖ DELL's Main Service

- Server

PowerEdge T430 Tower Server
• Short 22" depth and quiet office acoustics
• Intel Xeon processor E5-2600 v4 product family
• 12 x DIMMs DDR4 memory
• 4 x PCIe 3.0, 2 x PCIe 2.0 slots

Dell

❖ **DELL's Main Service**

  ▪ Storage

Dell Storage MD1420

• Up to **24 hot-pluggable 2.5" drives**
• Up to **48 TB** when using **24** x 2TB NL-SAS 2.5" **HDDs**
• PERC H830 HBA enables expansion to 8 enclosures,
  PCIe 3.0, 12 Gbps SAS, dual-port, 4 ports per enclosure
• Dell ReadyRails™ II static rails for tool-less mounting in
  4-post racks with square or unthreaded round holes or
  tooled mounting in 4-post threaded-hole racks

Big Data

Teradata

Teradata

❖ Teradata

- Founded in 1979

- Provides management strategy, consulting

- Product platform: Teradata IntelliCloud

- Ranking
  - 9th in Big Data Corporations
  - 4th in Big Data Professional Services

Teradata

❖ Teradata's Main Service

- Tearadata IntelliCloud™
  - Advanced Secure managed cloud technology

  - IntelliCloud services deployment options
    - Teradata IntelliFlex™
    - Teradata IntelliBase™

  - Provides Big Data software support for
    Teradata Database, Aster Analytics, Hadoop
    systems as well as AWS (Amazon Web Services)
    and Microsoft Azure platforms

Big Data

Reference

References

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