1. Difference between Power BI Desktop and Power BI Online Service

Feature	Power BI Desktop	Power BI Service (Online)
Purpose	Create and design reports locally	Share, view, collaborate, manage reports in the cloud
Storage	Local machine	Cloud workspace
Refresh	Manual refresh	Scheduled refresh (Pro/Premium)
Cost	Free	Free (limited), Pro, or Premium
Collaboration	Not built-in	Full collaboration & sharing tools

2. How to publish a Power BI report from Desktop to Service

1. Open the report in Power BI Desktop.
2. Click **Publish** → Sign in.
3. Choose a workspace in the Service.

3. Workspace in Power BI & types
A workspace is a cloud container for datasets, reports, dashboards, and dataflows.

- **My Workspace** – Private to the user.
- **Shared/Collaborative Workspaces** – Team spaces with role-based permissions.

4. Workspace vs App

- **Workspace** – Collaborative area for building and editing content.
- **App** – A packaged, read-only version of content from a workspace, shared with end users.

5. Power BI license types & limitations

- **Free** – Personal use, no sharing.
- **Pro** – Share, collaborate, schedule refresh (per user).
- **Premium Per User (PPU)** – Pro + bigger storage, paginated reports, AI features.
- **Premium Capacity** – Enterprise scale, unlimited free viewers, dedicated compute.

6. Share a report without a Pro license

- Publish it to a **Premium Capacity workspace** — free users can then view it.

7. Semantic model (dataset) & where stored

A **dataset** is the semantic model containing tables, relationships, measures.

Stored in the **Power BI Service workspace** where it's published.

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8. Scheduled Refresh in Service

- Updates dataset automatically at set times.
- Requires Pro/Premium.
- On-premises data sources need a **gateway**.

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9. Dataset vs Dataflow

- **Dataset** – Data model + data, tied to specific reports.
- **Dataflow** – Cloud ETL process that stores prepped data in Azure Data Lake for reuse.

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10. When to use Dataflow

- Multiple reports need the same cleaned data.
- Want centralized, reusable data prep in the cloud.

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11. Dashboards vs Reports

- **Dashboard** – Single-page, can have visuals from multiple datasets/reports.
- **Report** – Multi-page, interactive, from one dataset.

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12. Pin visual to dashboard

- In report view → hover over visual → **Pin** → choose dashboard.

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13. Mobile View

- A rearranged layout for phone/tablet use.
- Improves readability and usability on small screens.

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14. Paginated Report

- Pixel-perfect, printable layouts.
- Good for invoices, statements, large tables.

15. Export to PDF/PowerPoint

- Open report in Service → File → Export → PDF or PowerPoint.

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16. Live Connection in Service

- Connects a report directly to a dataset or Analysis Services model without importing data.
- Changes in source update instantly in report.

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17. Row-Level Security (RLS)

- Limits data users can see based on defined roles.
- Roles set in Desktop and enforced in Service.

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18. Test RLS in Service

- In dataset settings → **Security** → "Test as role."

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19. Apps & publishing

- App = curated package of reports/dashboards from a workspace.
- In workspace → **Publish app** → Configure → Share link.

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20. Key enterprise benefits of Power BI Service

- Centralized access to live reports.
- Automated refresh & alerts.
- Tight integration with Microsoft 365/Azure.
- Role-based security & compliance support.
- Scalable to thousands of users with Premium.