**IBM OPENPAGES**

**🡪Technical features:**

1. **How are users created / managed and given access to applications and modules?**

* **User Creation and Management:**
  + Navigate to **Administration > Users, Groups and Domains**.
  + You can add users manually or sync them via LDAP.
  + Users can be assigned to **groups** and granted **application permissions** via **role templates**.
* **Role Assignment:**
  + Roles are assigned using **role templates**, which include both **application permissions** and **ACLs** (Access Control Lists).
  + These can be assigned via the UI or through the **ObjectManager** tool using XML configuration files.
* **Access to Applications and Modules:**
  + Permissions are cumulative; however, the most restrictive permission applies if conflicting roles exist.
  + Access is hierarchical and contextual – roles assigned at a higher level (e.g., Business Entity) affect all nested data.

**2. How are security parameters defined for users?**

* **Security Parameters:**
  + Defined through **role templates**, **groups**, and **organizational hierarchy**.
  + You can assign application and data-level permissions by associating roles to **business units** or **object types**.
* **Access Control Options:**
  + *Role-based security:* Permissions defined per object level (Read, Write, Delete).
  + *Custom security:* For folder-based and cross-object associations.
  + *Field-level and record-level security rules* can restrict visibility or editability of specific fields/records.

**3. How are applications created and what are the various types of fields present?**

* **Creating Applications:**
  + Go to **Administration > Object Types**.
  + Object types (applications) include standard and custom forms.
  + Configure:
    - Parent-child associations
    - Field groups and views (Activity, Detail, Creation)
* **Field Types:**
  + **System/Standard fields**
  + **Custom fields** (String, Integer, Decimal, Date, Boolean)
  + **Enumerated fields** (picklists)
  + **Computed fields** (read-only values based on logic)
  + **Actor fields** (User/Group selectors).

**4. How are fields hidden, made read-only, and required?**

* **Field Behavior via Dependencies:**
  + Set up using **Field Dependencies** in the object’s field group.
  + Behaviors include:
    - *Visibility*
    - *Requiredness*
    - *Editability*
* **Example:**
  + A field becomes visible and required only when another field (e.g., “Is Control Owner?”) equals "No".
  + This is done by setting the controller field and configuring the dependent field logic.

**5. How are fields auto-populated? (e.g., Risk Score = 1200 → Risk Rating = High)**

* **Using Computed Fields:**
  + Navigate to **Administration > Field Groups**.
  + Select a group and create a new field of type **Computed**.
  + Requires **Cognos Analytics** to model and compute the logic.
* **Steps:**
  + Define calculation in Cognos report.
  + Export the XML.
  + Define the computed field in OpenPages using this logic.
  + Example computation: IF(Risk Score > 1000, "High", "Medium").

**6. How are workflows configured?**

* **Workflows are tied to Object Types** and control object lifecycle transitions.
* Access under **Administration > Settings > Platform Workflow Implementations**.
* **Workflow Configuration Includes:**
  + Statuses and Transitions
  + Preconditions (e.g., field value must be set)
  + Postconditions (e.g., trigger notifications)
  + Validation rules (e.g., comments must be provided for certain transitions).

**7. How are notifications configured and what types are available?**

* **Notification Types:**
  + Email alerts (including hyperlinks to specific tasks or views)
  + System-generated messages for task reminders and workflow events
* **Configuration:**
  + Set via **Administration > Settings > Applications > Notifications**.
  + Notifications can be customized with hyperlinks that:
    - Open detail views
    - Trigger filtered lists
    - Open grid views with filters
  + Example: “Click to assess this risk” links directly to a task view.

**8. How is code migrated from development to production?**

* **Using ObjectManager Tool:**
  + Exports/imports system configuration, roles, field definitions, workflows, etc.
* **Steps:**
  + Export using:xml ObjectManager dump config <admin> <password> <output-dir> <file-name>
  + Make changes or prepare for import.
  + Import using:

Xml ObjectManager load config <admin> <password> <input-dir> <file-name>

* Used for migrating role assignments, field groups, views, workflows, etc..

**9. How are reports and dashboards configured?**

* **Reports:**
  + Built using **IBM Cognos Analytics**.
  + Report types:
    - List reports
    - Dashboard widgets
    - Interactive prompts
  + Reports are integrated into OpenPages views and can link to object details.
* **Configuration:**
  + Navigate to **Reporting > Cognos Analytics** or include reports in OpenPages views.
  + Access is controlled by both **OpenPages** and **Cognos permissions**.

**10. Are there any jobs to move data in IBM OpenPages?**

* **Yes — FastMap Jobs:**
  + Used for bulk data movement (import/export).
  + Supports:
    - Parent-child associations
    - Required/default fields
    - Auto-naming rules
* **Process:**
  + Create or download an Excel template.
  + Populate with data.
  + Use FastMap to upload.
  + FastMap supports flags like ignoreReadOnlyWarnings, shouldDefaultRequiredFields etc.

Out of the box Audit Management

***Key Capabilities***

* Full audit lifecycle management
* Audit scheduling and scoping
* Automated workflow and status tracking
* Finding and action item tracking
* Role-based access to audit objects and data
* Pre-configured and customizable audit reports and dashboards

***Core Audit Object Types***

1. Audit Plan – Defines the annual or quarterly audit strategy.
2. Audit Project – Individual audit engagements scoped within a plan.
3. Audit Test – Control-level testing tasks within an audit project.
4. Audit Finding – Issues identified during audits.
5. Action Item – Tasks assigned to address audit findings.
6. Workpaper – Supporting documentation and evidence for audits.

Each of these objects is linked hierarchically and supports version control and approval workflows.

***Workflows and Roles***

* Workflow Configuration:
  + Customized for each object type (Audit Plan, Audit Project, etc.)
  + Tracks status transitions: e.g., Draft → In Progress → Completed → Closed
  + Supports preconditions and notifications
* Roles in Audit:
  + Audit Manager – Creates plans/projects, assigns staff
  + Auditor – Conducts tests, uploads workpapers
  + Reviewer – Reviews findings and signs off
  + Business Owner – Addresses action items and remediation

***Audit Reports***

Found under Reporting > OpenPages V6 > Audit Reports, the key reports include:

* Audit Summary: High-level view of audit projects and status
* Audit Change Report: Captures field-level changes with filtering
* Configuration Audit: Tracks changes to OpenPages configuration
* Security Audit: Tracks login activity, permissions, and role assignments

Each report allows filtering by date range, object type, and business entity.

***Audit Trail and Change Tracking***

* Audit Change Events (as per the Audit Change Report):
  + *Added Object* – New audit object created
  + *Changed <field>* – Value updated (e.g., from “Low” to “High”)
  + *Added/Removed Association* – Linked or unlinked to another object
  + *Added/Removed Version* – A new version of the audit entry was created
* Audit trail is parent-object centric; changes are tracked via primary object associations.

***Security & Field-Level Control***

* Users are restricted to only the audits and fields they are allowed to see.
* Uses record-level and field-level security.
* Supports read-only, hidden, or editable states based on workflow state and role.

***Integration & Customization Options***

* Integrates with IBM Cognos Analytics for dashboard visualization.
* Supports custom forms, computed fields, and automated field population.
* Custom workflow steps and email notifications can be configured at each lifecycle stage.