

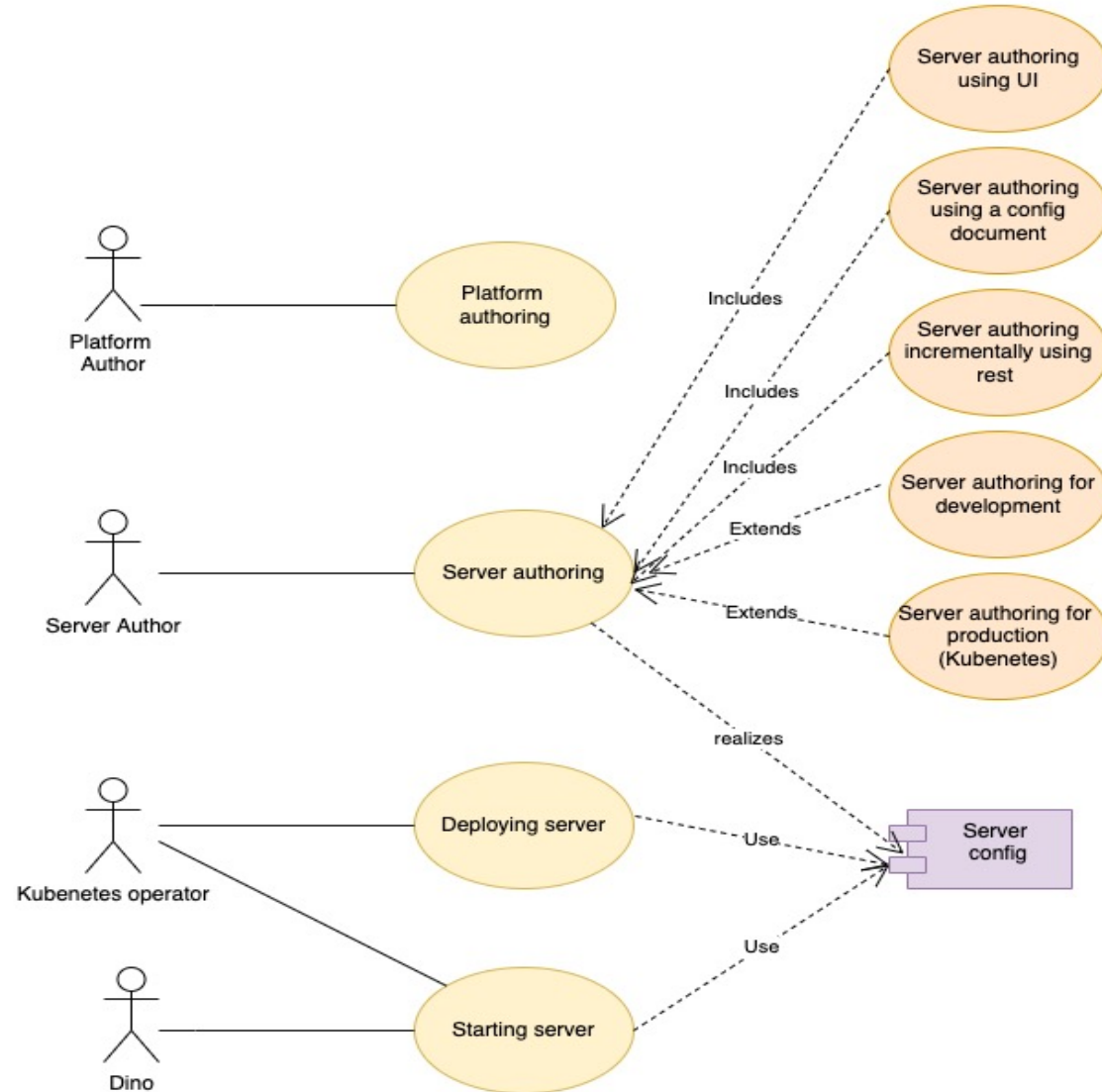
# Egeria Server Author UI

David Radley

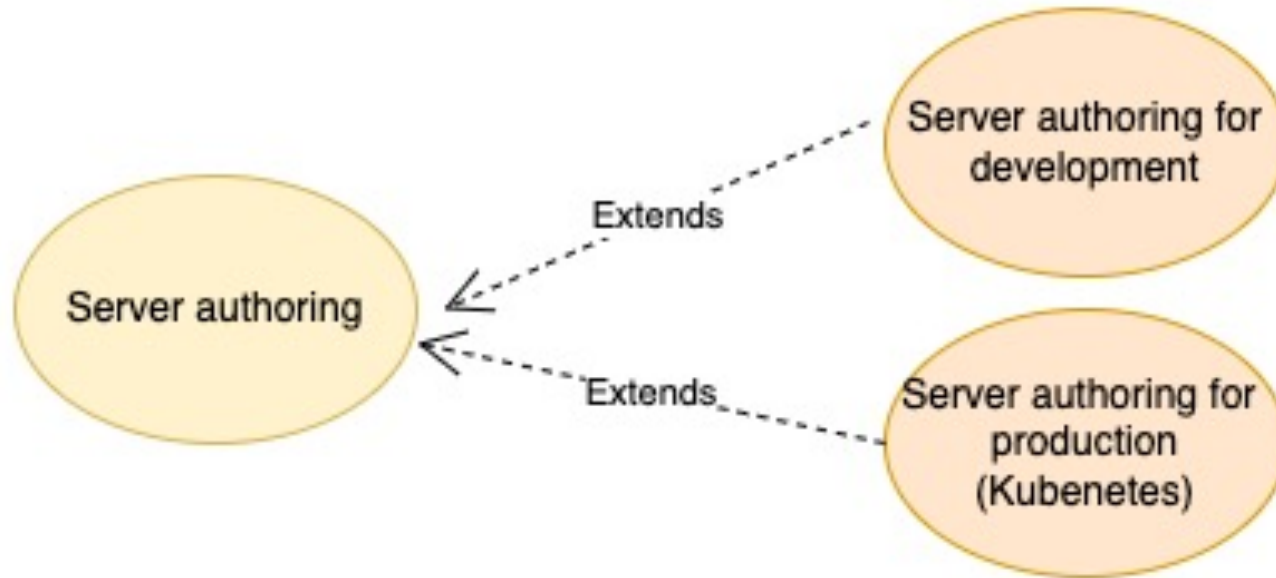
# Egeria Server Platforms and servers

- <https://odpi.github.io/egeria-docs/concepts/omag-server-platform/>
- Advantages of this architecture.
  - Flexibility to run the same server on many platforms
  - Flexibility to run many servers on one platform.
  - Servers are defined by their configuration ('metadata driven'); each capability server is not hard coded.
  - There is standard administration calls that are used to configure servers and their capabilities.
  - Framework supports multitenancy

# Use cases around server authoring

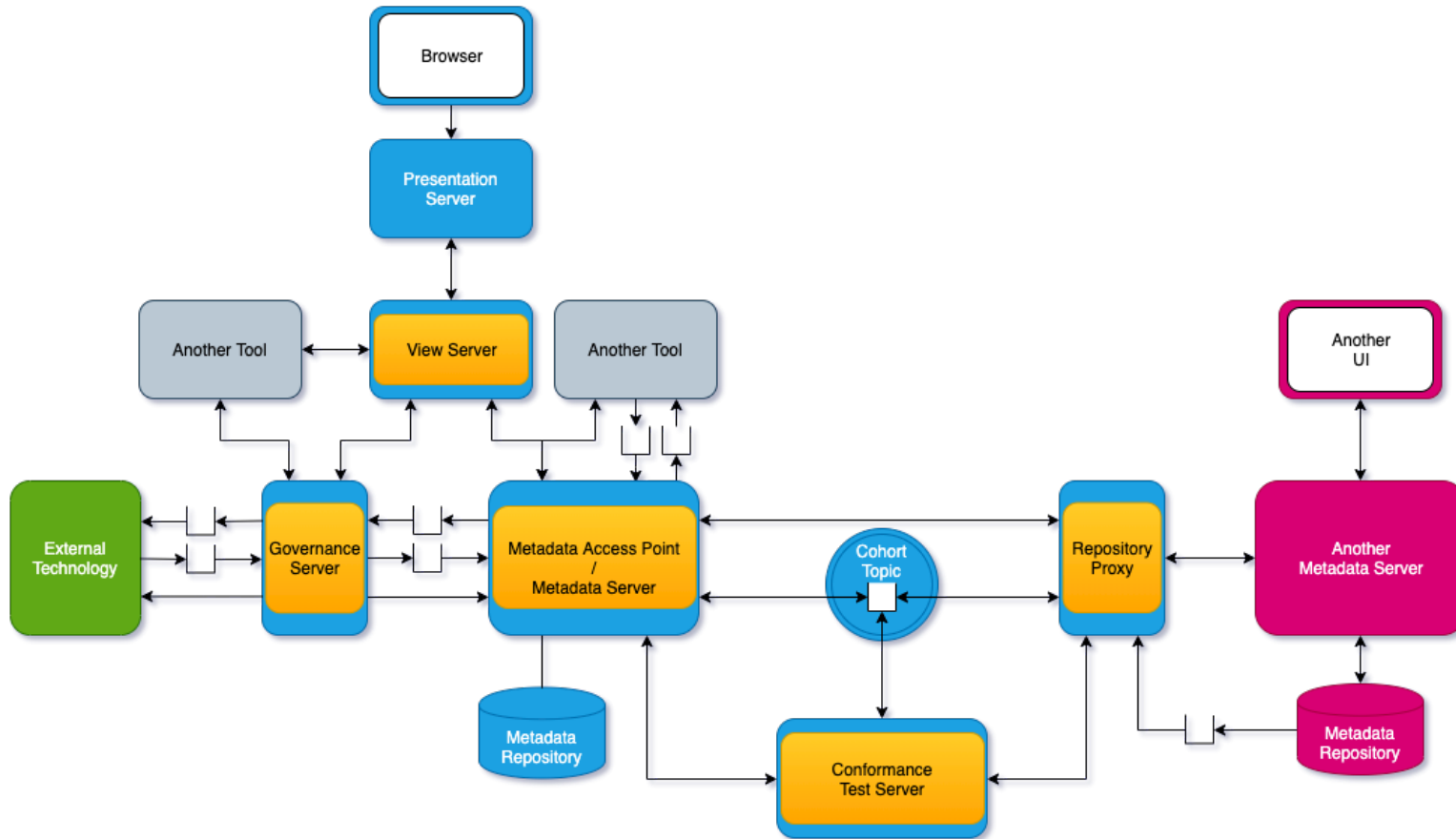


# Use cases around server authoring continued



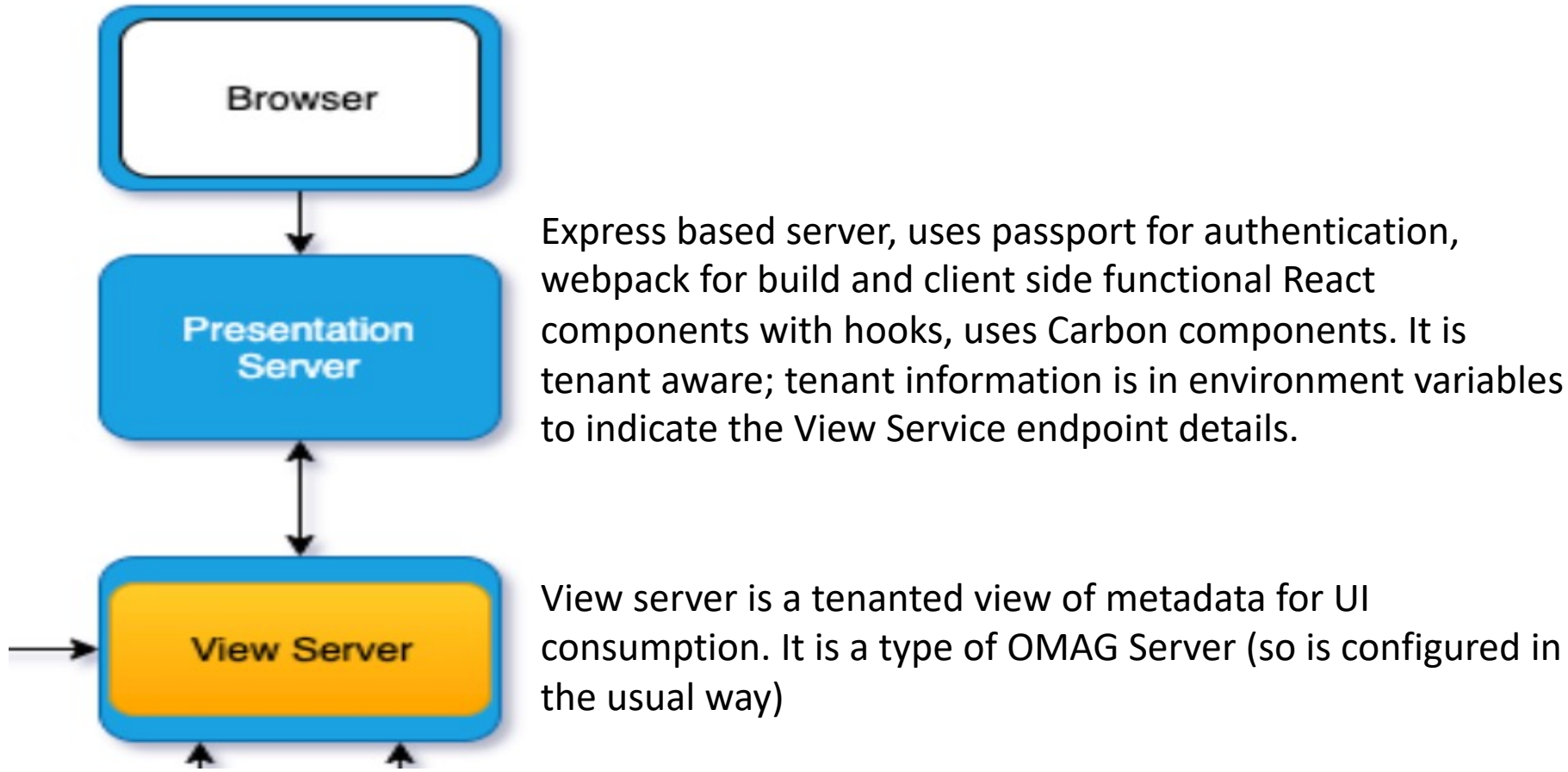
- Development simpler environment
  - often one platform
  - Server run where configured
  - Use rest or Dino to start servers
  - Config Values hard coded
- Production
  - Server configured on a different platform to where it will run
  - Kubernetes operator may be used
    - starts / restarts servers
    - Values need to be templated e.g. URLs cannot be hard coded.

# The Egeria infrastructure UI architecture



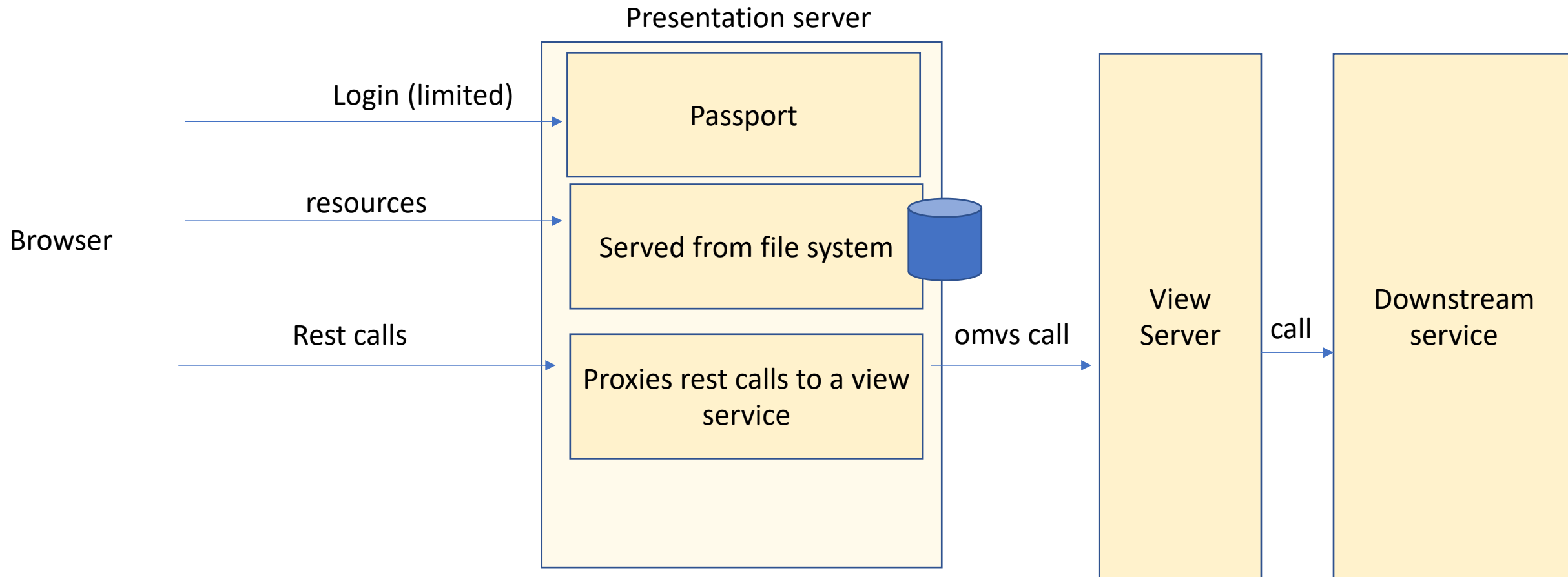
<https://egeria.odpi.org/open-metadata-publication/website/planning-guide/>

# The UI part



Demo

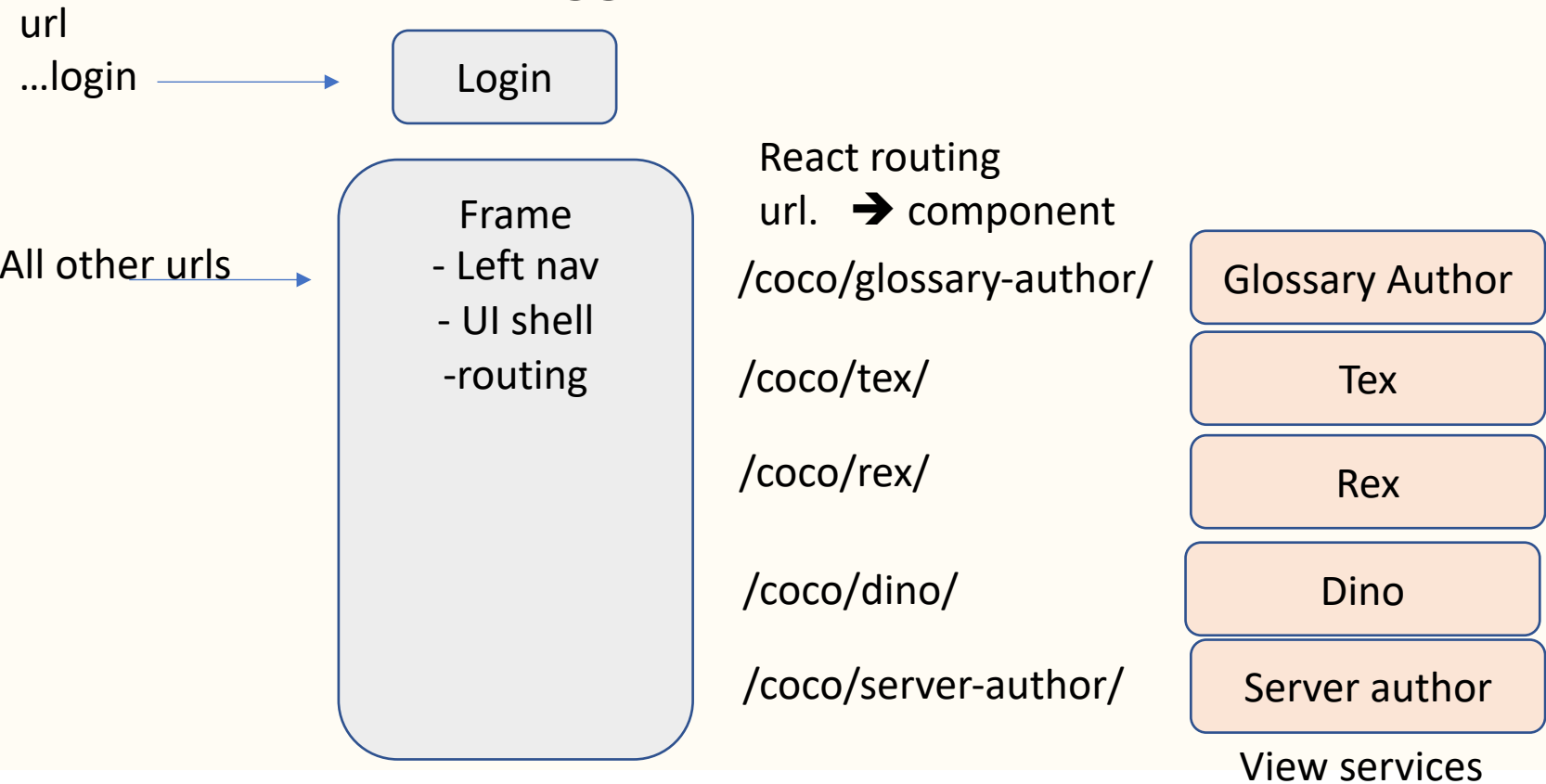
# React UI architecture – presentation server





# React UI architecture – React part

Identification Context contains logged in user



# Ui and view services

| UI Capability                                | UI Capability type | View Service    | View service target                | description   |
|--|--------------------|-----------------|------------------------------------|---|
| Type Explorer (Tex)                          | Ecosystem Tool     | tex             | OMRS                               | Exploration of the Egeria Type system loaded on server(s)                           |
| Resource Explorer (Rex)                      | Ecosystem Tool     | rex             | OMRS                               | Exploration of OMRS entities and relationships present on server(s)                 |
| Dynamic Infrastructure and Operations (Dino) | Ecosystem Tool     | dino            | OMRS                               | Exploration of the operation landscape  |
| Glossary Author                              | Solution           | Glossary Author | Subject Area OMAS                  | Glossary author tasks, including Glossary Terms, Categories and their relationships |
| Server Author                                | Solution           | Server Author   | Admin server and platform services | Server author tasks including authoring new server configurations                   |

# Server author View service configuration

```
{
  "class":"IntegrationViewServiceConfig",
  "viewServiceAdminClass":"org.odpi.openmetadata.viewservices.serverauthor.admin.ServerAuthorViewAdmin",
  "viewFullServiceName":"ServerAuthor",
  "viewServiceOperationalStatus":"ENABLED",
  "omagserverPlatformRootURL":"https://localhost:9443",
  "resourceEndpoints" : [
    {
      "class" : "ResourceEndpointConfig",
      "resourceCategory" : "Platform",
      "platformName" : "Platform1",
      "platformRootURL" : "https://localhost:9443",
      "description" : "This platform is running on David's Mac"
    }
  ]
}
```

Platform endpoint where the configuration will be stored

Platform endpoint definition for platform1

- Note that the view service provides the readable name and description for the platform. And a list of allowable platforms to be used by the server author.

# Server author development

- The initial server author Ui wizard was created by a GBS team in IBM. It was hard coded to work for a metadata server (now called access server store).
- Development continued later to add the other server types.
- This involved a lot of refactoring to create some reusable code and patterns that would work for more than one server type.

# Server types

- In the React code, there is a json file that defines each server type in terms of its serverConfigElements (each capability is a page in the wizard). Like this:

```
const serverTypes = [  
  
  {  
    id: "metadata-server",  
    label: "Metadata Access Store (previously called Metadata Server)",  
    description: "Supports the access services and supports a metadata repository that can natively store open metadata types as well as specialized metadata APIs for different types of tools (these APIs are called access services).",  
    serverConfigElements : ["server-type-config-element", "config-basic-config-element", "local-repository-config-element", "esb-config-element", "cohort-config-element", "access-services-config-element", "archives-config-element", "audit-log-config-element", "final-config-element"]  
  }, ...
```

<https://github.com/odpi/egeria-react-ui/blob/main/cra-client/src/components/ServerAuthor/components/defaults/serverTypes.js>

# serverConfigElements

A json file defines each serverConfigElements in terms of its identifier , description and label - like this:

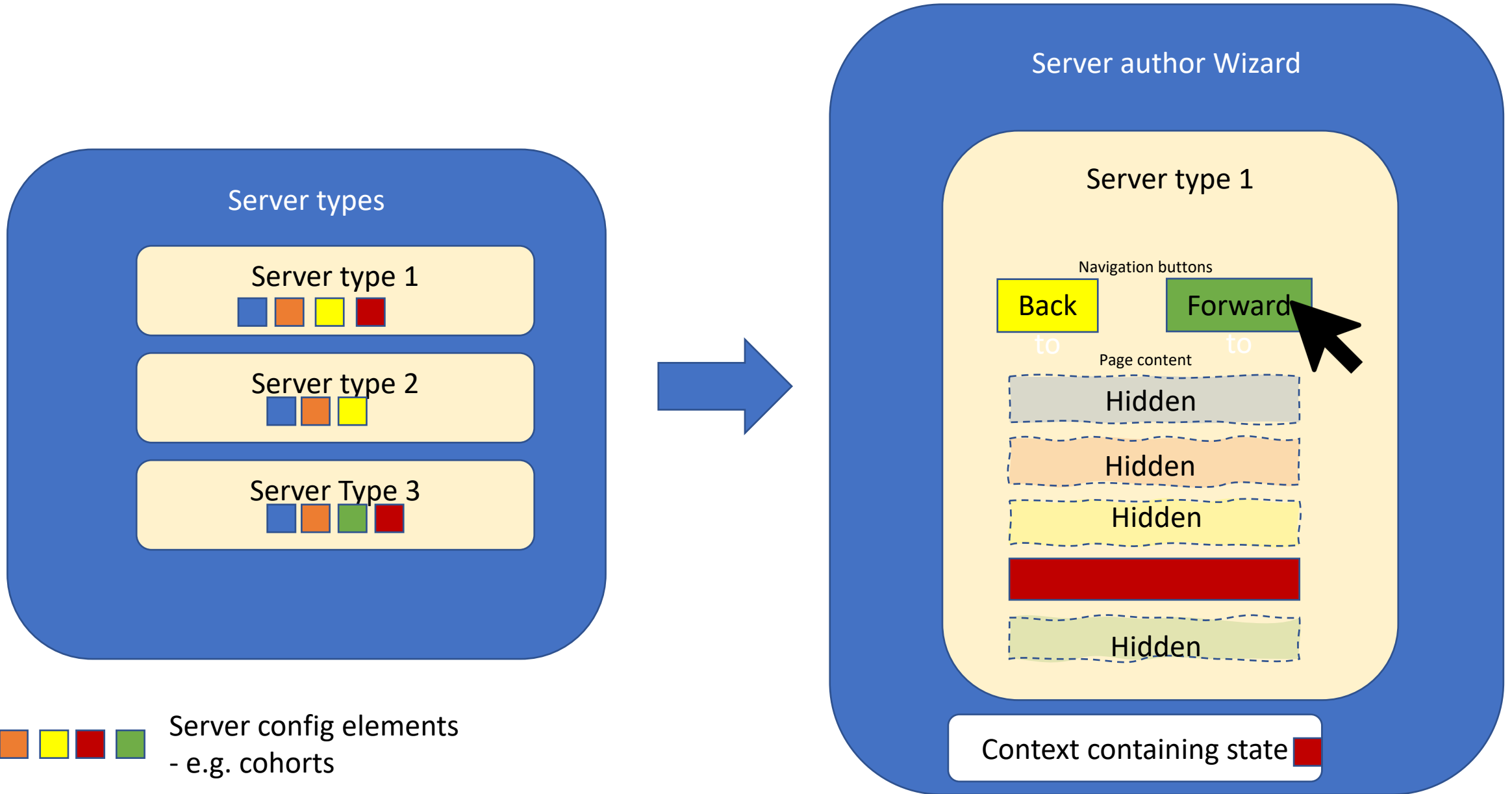
```
const serverConfigElements = [  
  {  
    id: "server-type-config-element",  
    label: "Server Type",  
    description: "Set the type of server to be configured."  
  },  
  ...
```

<https://github.com/odpi/egeria-react-ui/blob/main/cra-client/src/components/ServerAuthor/components/defaults/serverConfigElements.js>

# Server author Wizard

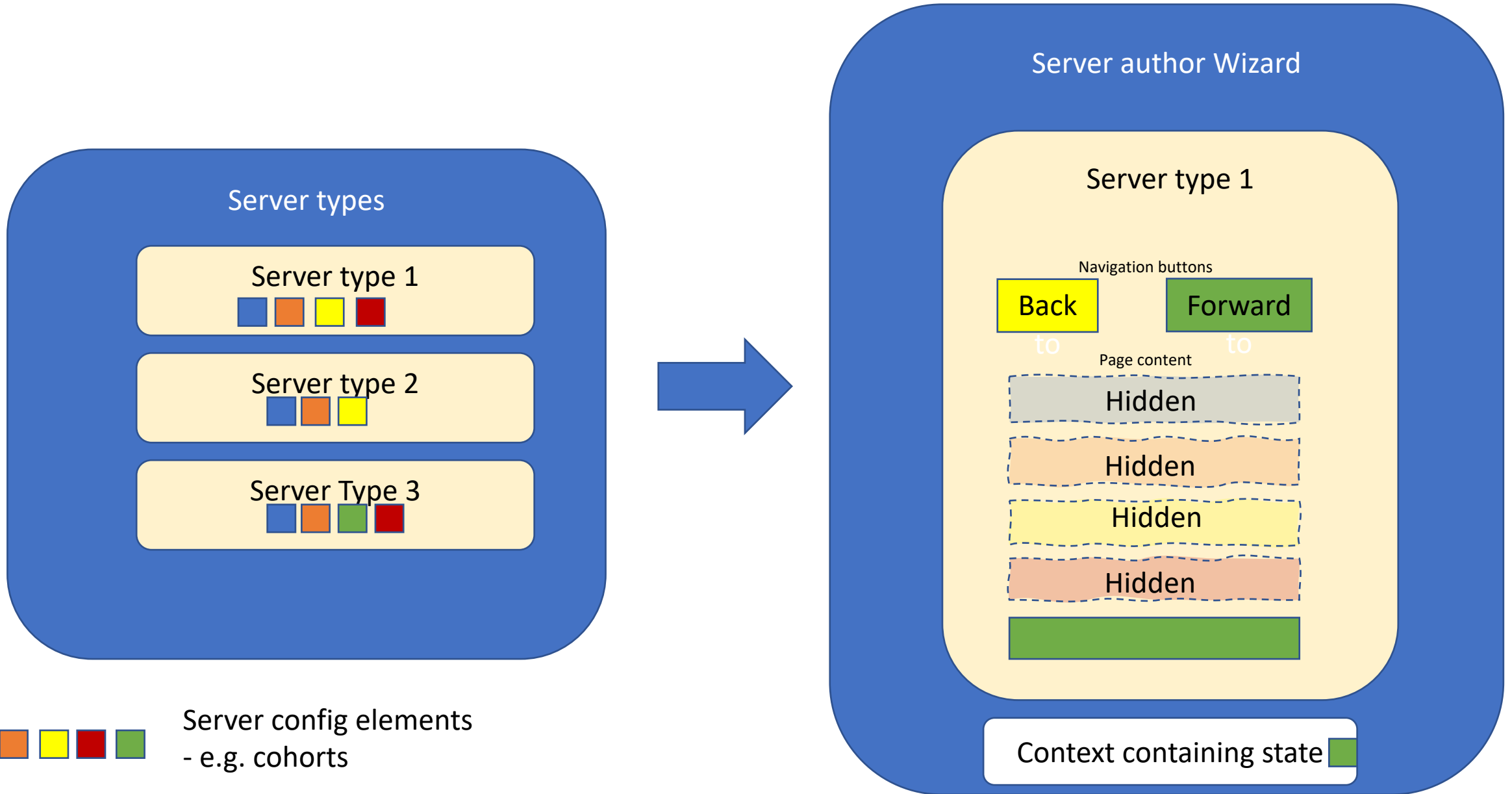
- The server author has a wizard to create servers.
- It uses a [React context](#) to hold the state.
- The [wizard](#) has navigation buttons (back and forward buttons), these interrogate the ServerTypes file and context state to work out what the next step
- Each page is in the wizard component and the appropriate section is unhidden for a wizard page. The ids of the elements match the server config element ids.

# Server types and config elements & context state determines what is shown in the wizard





# Server types and config elements & context state determines what is shown in the wizard



# Setting the server type

## Create New OMAG Server

Server Type  Basic  Repository  Event Bus  Cohorts  Access serv...  Archives  Audit log  Conf

Cancel  
Configuration

Proceed to Basic

Select Server Type



- Cohort Member
- ✓ Metadata Access Store (previously referred to as a Metadata Server)
  - Metadata Access Point
  - Repository Proxy
  - Conformance Test Server
- Governance Servers
  - Integration Daemon
  - Engine Host
  - Data Engine Proxy
  - Open Lineage Server
- View Server

# Setting the server type

## Create New OMAG Server

serverConfigElements

A horizontal progress bar with a yellow background and a blue border. It contains several radio button options: 'Server Type' (selected), 'Basic', 'Repository', 'Event Bus', 'Cohorts', 'Access serv...', 'Archives', 'Audit log', and 'Conf'. Below the progress bar are two buttons: 'Cancel Configuration' on the left and 'Proceed to Basic' on the right.

Select Server Type



- Cohort Member
- ✓ Metadata Access Store (previously referred to as a Metadata Server)
- Metadata Access Point
- Repository Proxy
- Conformance Test Server
- Governance Servers
- Integration Daemon
- Engine Host
- Data Engine Proxy
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# Setting the server type

## Create New OMAG Server

Server Type  Basic  Repository  Event Bus  Cohorts  Access serv...  Archives  Audit log  Conf

Cancel  
Configuration

Proceed to Basic

Select Server Type



- Cohort Member
- ✓ Metadata Access Store (previously referred to as a Metadata Server)
- Metadata Access Point
- Repository Proxy
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- Governance Servers
- Integration Daemon
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Server and step  
specific navigation

# Setting the server type

## Create New OMAG Server

Server Type  Basic  Repository  Event Bus  Cohorts  Access serv...  Archives  Audit log  Conf

Cancel  
Configuration

Proceed to Basic

Select Server Type



- Cohort Member
- Metadata Access Store (previously referred to as a Metadata Server)
- Metadata Access Point
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- Conformance Test Server
- Governance Servers
- Integration Daemon
- Engine Host
- Data Engine Proxy
- Open Lineage Server
- View Server

Unhidden  
content


# Basic config


## Create New OMAG Server


Server Type  Basic  Repository  Event Bus  Cohorts  Access serv...  Archives  Audit log  Configured


[Cancel Configuration](#) [Back to Server Type](#) [Proceed to Repository](#)

### Basic Configuration

Server name  
cocoMDS1 

Local user ID  
my\_server\_user\_id 

Local password  
my\_server\_Password 

Select  
Platform1 

Organization name  
myOrg

Server Description  
This is a demonstration

Max page size

Platform  
Is the meaningful  
Name rather than the  
url.

# Audit log destinations

- Use a table , with create , edit , copy capabilities to author audit logs.
- This pattern is going to be used in the access server options authoring.
- I am investing React render child pattern to allow re use of component to do this.

# Server author current development goals

- Copy, Edit and delete for existing servers
- Implement the other server types
- Bootstrap: From platform(s) with no servers , how do we start?
  - We need a server author view server to be defined and configured.
    - Use admin calls in the presentation server to create this
    - Once we have a view server & server author view service defined we need to start it
    - Then we can start defining the other types of server using the view services as usual
    - consider how we can augment rex tex and glossary author view service config when we are using the server author in that platform.
- Get platform values from a metadata server. For more details see the planned Community call – Egeria Catalog yourself. Coming later this month