



# RMF - Web API

Vega Systems Inc.

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<https://www.vega25.com/rmf>



# RMF Web API

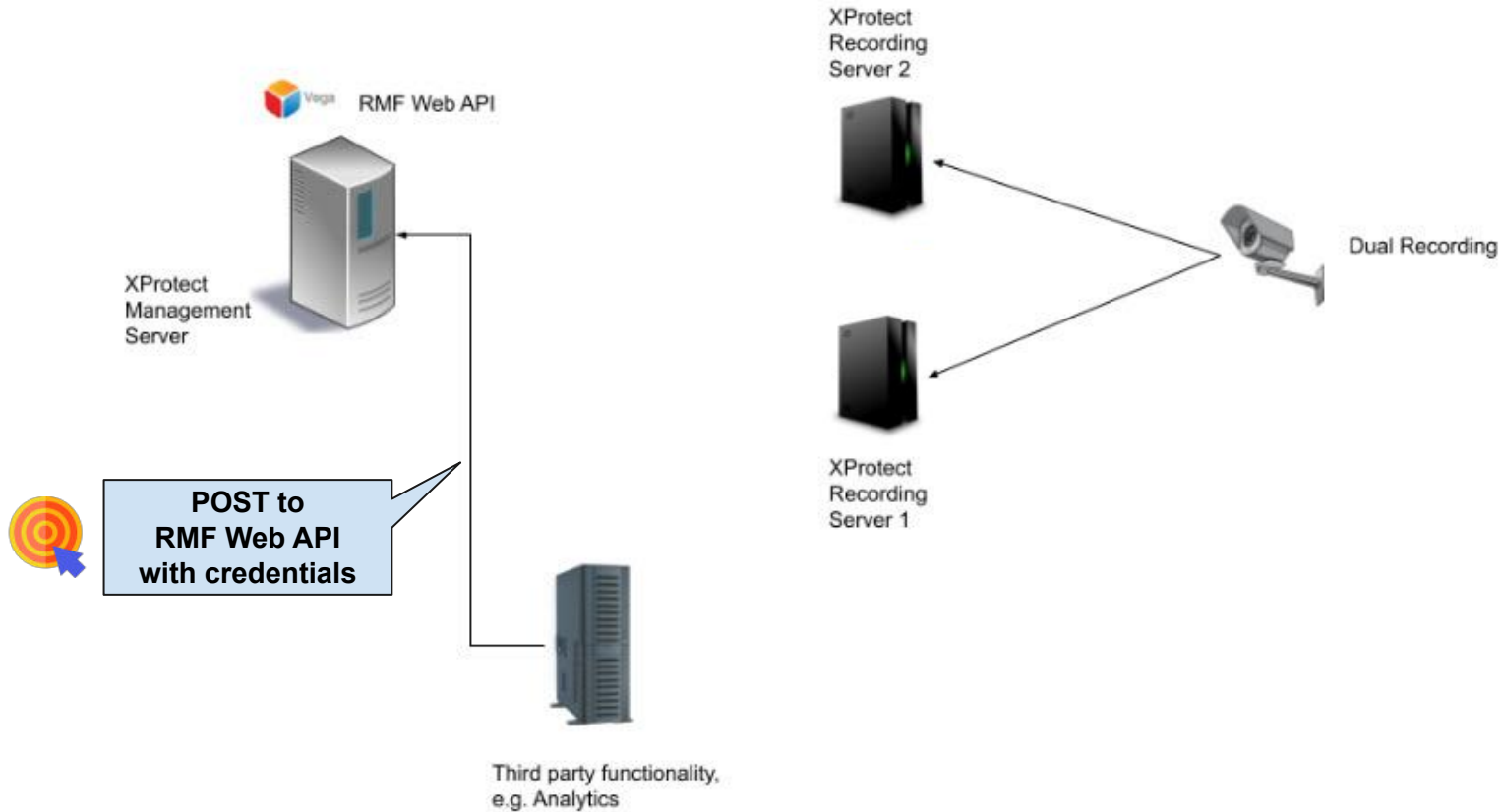
RMF Web API provides an authenticated REST interface through which third-party software such as analytics can obtain XProtect dual-recording redundancy information. In addition, third-party software can utilize such information to obtain video from redundant sources via the MIP SDK, should a primary source fail.

The RMF Web server runs on the XProtect management server. In federated deployments, the RMF web server resides on the XProtect management server of the parent site.

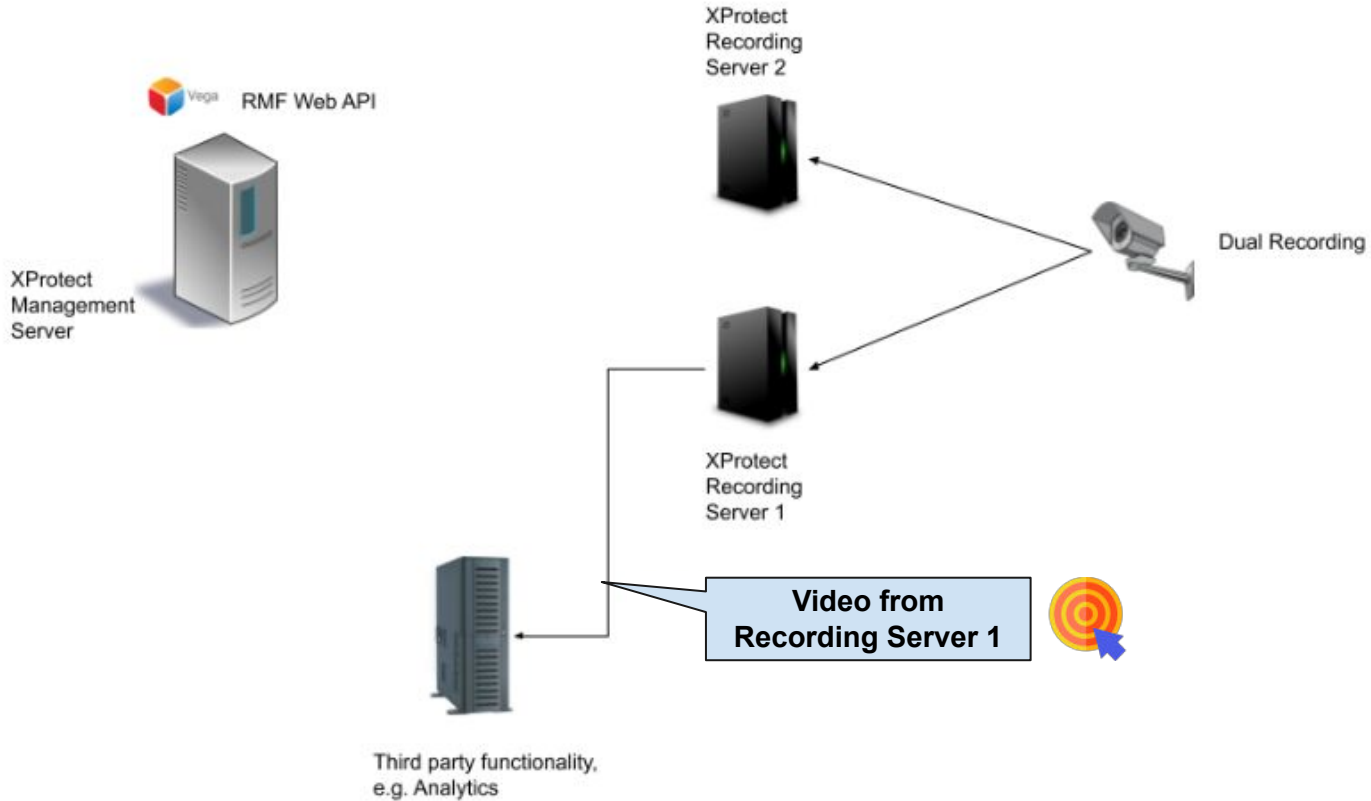
It is installed at port 2020 by default. The port number can be modified using IIS or the RMF configuration wizard.



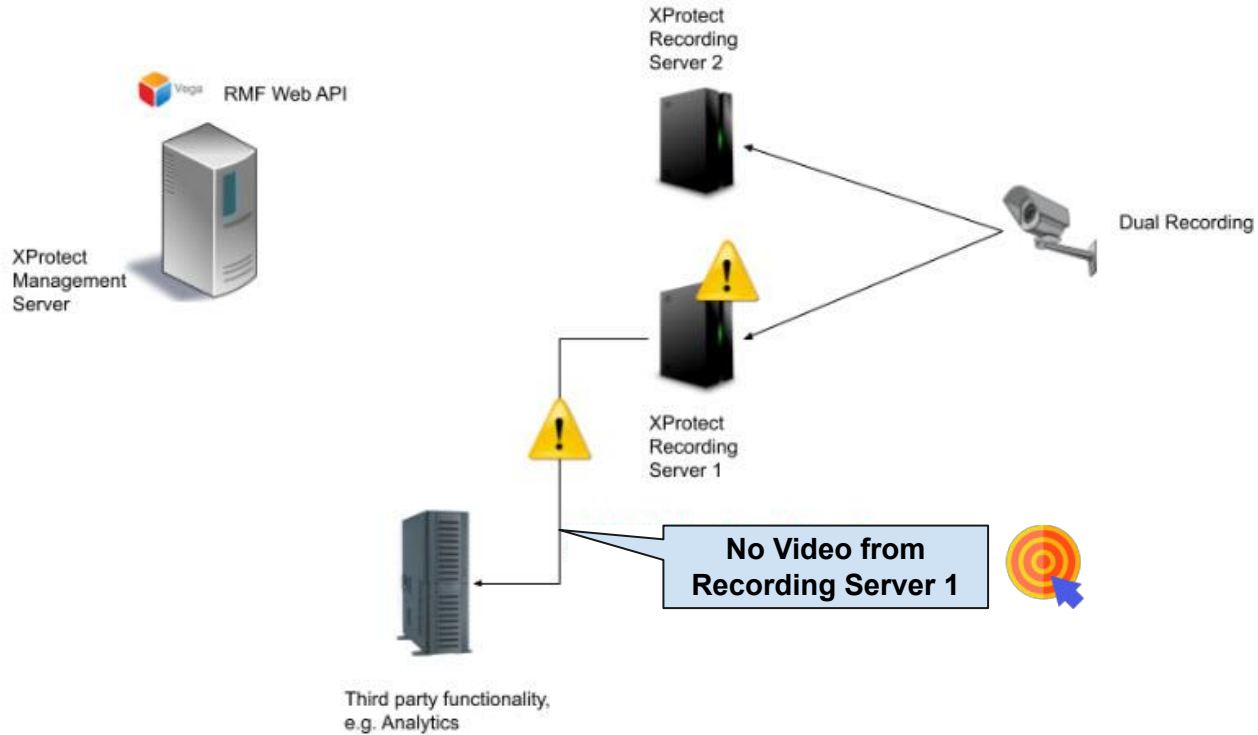
# Use Cases



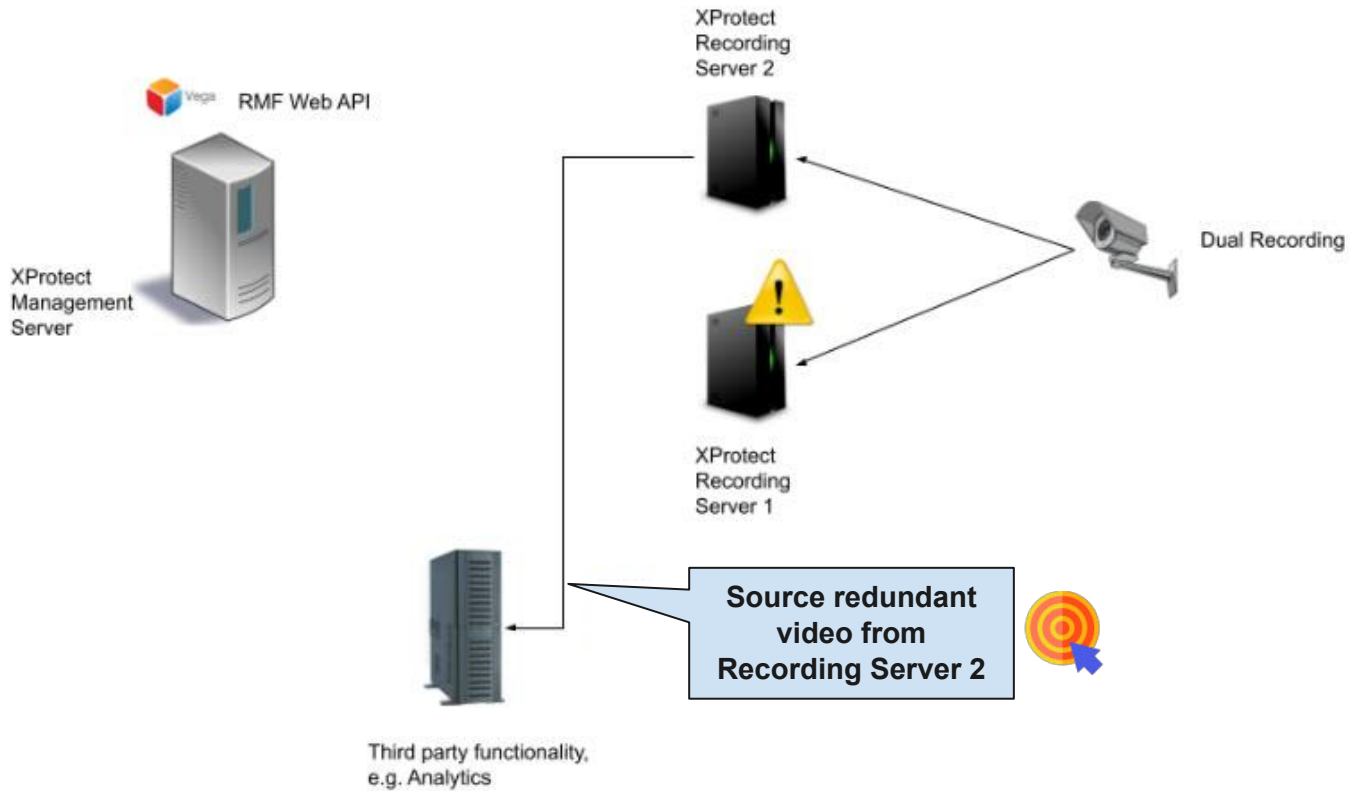
**Step 1:** Query RMF Web API to obtain mapping and redundancy information



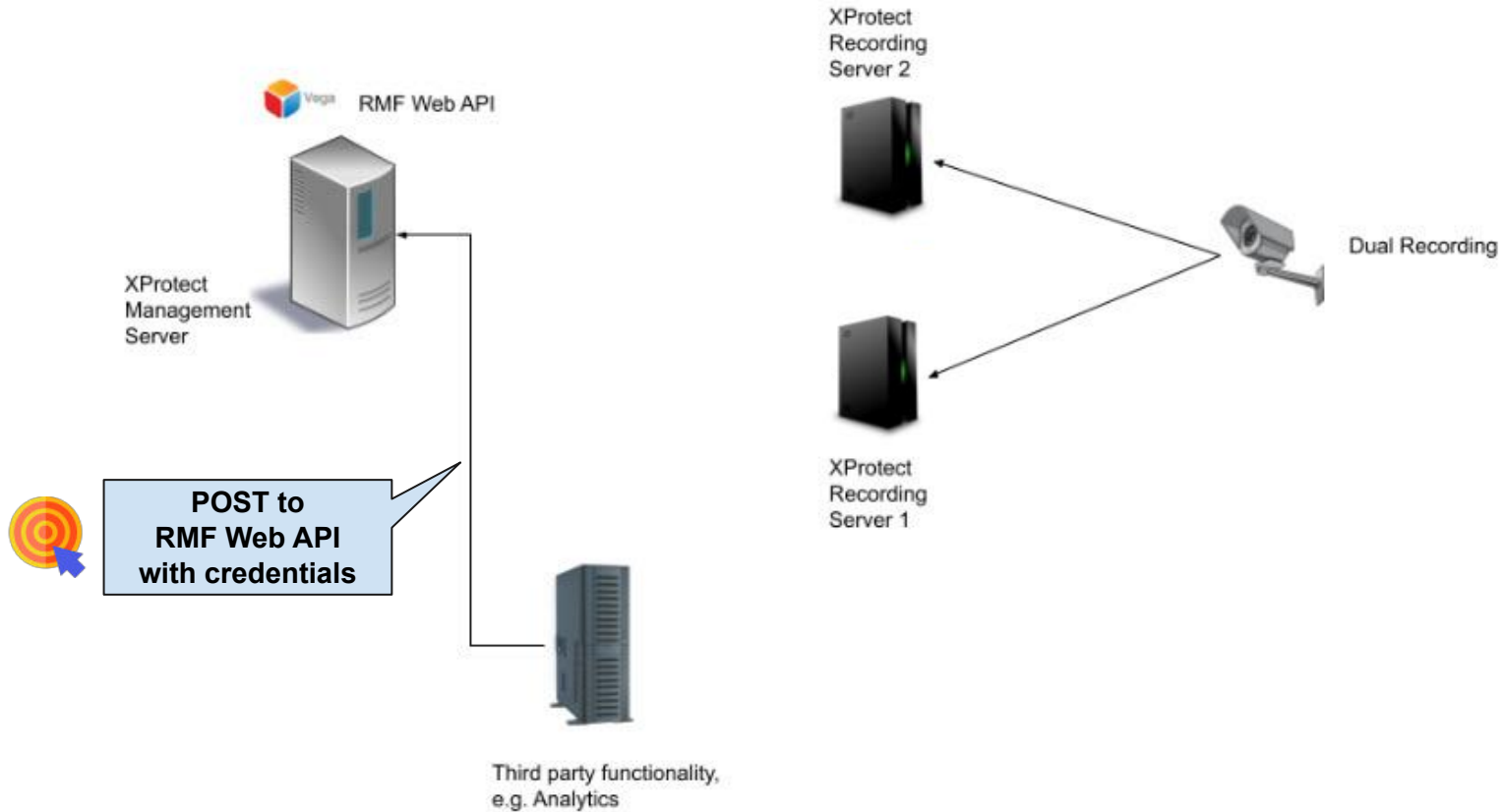
**Step 2:** Sourcing from Recording Server 1



**Step 3:** No Video from Recording Server 1



**Step 4:** Utilize Redundant Source from Recording Server 2



Refresh to obtain latest mapping and redundancy information





# API Usage - Help



**GET** [http://<Management\\_Server\\_IP>:<RMF\\_API\\_PORT\\_NUM>/VegaSystems/Help](http://<Management_Server_IP>:<RMF_API_PORT_NUM>/VegaSystems/Help)

**Sample:** <http://localhost:2020/VegaSystems/Help>



# RMF REST API Help Page

## Introduction

RMF REST API can be used to retrieve a redundancy map table.

Each row of the table contains information pertaining to one camera device.

Each entry in a row contains information to access a redundant copy of video and associated metadata from the camera.

## Mapping

API	Description
<a href="#">POST RMF/Mapping</a>	Information on how to access the redundancy mapping table.



**GET** [http://<Management\\_Server\\_IP>:<RMF\\_API\\_PORT\\_NUM>/VegaSystems/Help/Api/POST-RMF-Mapping](http://<Management_Server_IP>:<RMF_API_PORT_NUM>/VegaSystems/Help/Api/POST-RMF-Mapping)

**Sample:** <http://localhost:2020/VegaSystems/Help/API/POST-RMF-Mapping>



# POST RMF/Mapping

## Request Information

### URI Parameters

None.

### Body Parameters

#### Credentials

Name	Description	Type	Additional information
Username		string	None.
Password		string	None.
Search		Collection of string	None.

### Request Formats

#### application/json, text/json

Sample:

```
{
  "Username": "sample string 1",
  "Password": "sample string 2",
  "Search": [
    "sample string 1",
    "sample string 2"
  ]
}
```

#### application/xml, text/xml

Sample:

```
<Credentials xmlns:i="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://schemas.datacontract.org/2004/07/RMFMapping.Controllers">
```



# API Response - XML



**POST** [http://<Management\\_Server\\_IP>:<RMF\\_API\\_PORT\\_NUM>/VegaSystems/RMF/Mapping?type=XML](http://<Management_Server_IP>:<RMF_API_PORT_NUM>/VegaSystems/RMF/Mapping?type=XML)

### Body

```
{  
  "username": <Xprotect credentials>,  
  "password": <XProtect credentials>,  
  "search": [<string1>,<string2>,...]  
}
```



```
1 <?xml version="1.0"?>
2 <Devices>
3   <Item>
4     <Name>AXIS M3044-V Network Camera (172.16.0.3) - Camera 1</Name> → Camera managed by RMF
5     <Active1>
6       <FQID>
7         <ServerId>
8           <Type>XPCORS</Type>
9           <Scheme>http</Scheme>
10          <Hostname>primaryrec1.vegadomn.com</Hostname>
11          <Port>7563</Port>
12          <Id>8ba8d23e-4866-4c02-95bf-e11139dc58a1</Id>
13        </ServerId>
14        <ParentId>8ba8d23e-4866-4c02-95bf-e11139dc58a1</ParentId>
15        <ObjectId>4675352e-6b53-4083-87ac-0ecb1cf4fdb</ObjectId>
16        <FolderType>0</FolderType>
17        <Kind>5135ba21-f1dc-4321-806a-6ce2017343c0</Kind>
18      </FQID>
19    </Active1>
20    <Active2>
21      <FQID>
22        <ServerId>
23          <Type>XPCORS</Type>
24          <Scheme>http</Scheme>
25          <Hostname>primaryrec2-v6.vegadomn.com</Hostname>
26          <Port>7563</Port>
27          <Id>66906550-c5e0-452d-b9b4-01469854d8b8</Id>
28        </ServerId>
29        <ParentId>66906550-c5e0-452d-b9b4-01469854d8b8</ParentId>
30        <ObjectId>1d79fd06-ace9-4ff0-a24c-addf771ddb31</ObjectId>
31        <FolderType>0</FolderType>
32        <Kind>5135ba21-f1dc-4321-806a-6ce2017343c0</Kind>
33      </FQID>
34    </Active2>
35  </Item>
```

Camera managed by RMF

Parent / Primary Server

Child / Secondary Server





# API Response - JSON



**POST** [http://<Management\\_Server\\_IP>:<RMF\\_API\\_PORT\\_NUM>/VegaSystems/RMF/Mapping?type=json](http://<Management_Server_IP>:<RMF_API_PORT_NUM>/VegaSystems/RMF/Mapping?type=json)

### Body

```
{  
  "username": <Xprotect credentials>,  
  "password": <XProtect credentials>,  
  "search": [<string1>,<string2>,...]  
}
```



```
1
2
3
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28
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31
32
33
34
```

```
"Devices": {
  "Item": [
    {
      "Name": "AXIS M3044-V Network Camera (172.16.0.3) - Camera 1",
      "Active1": {
        "FQID": {
          "ServerId": {
            "Type": "XPCORS",
            "Scheme": "http",
            "Hostname": "primaryrec1.vegadomn.com",
            "Port": "7563",
            "Id": "8ba8d23e-4866-4c02-95bf-e11139dc58a1"
          },
          "ParentId": "8ba8d23e-4866-4c02-95bf-e11139dc58a1",
          "ObjectId": "4675352e-6b53-4083-87ac-0ecb1cf4fdbbc",
          "FolderType": "0",
          "Kind": "5135ba21-f1dc-4321-806a-6ce2017343c0"
        }
      },
      "Active2": {
        "FQID": {
          "ServerId": {
            "Type": "XPCORS",
            "Scheme": "http",
            "Hostname": "primaryrec2-v6.vegadomn.com",
            "Port": "7563",
            "Id": "669066550-c5e0-452d-b9b4-01469854d8b8"
          },
          "ParentId": "669066550-c5e0-452d-b9b4-01469854d8b8",
          "ObjectId": "1d79fd06-ace9-4ff0-a24c-addf771ddb31",
          "FolderType": "0",
          "Kind": "5135ba21-f1dc-4321-806a-6ce2017343c0"
        }
      }
    }
  ]
}
```

→ Camera managed by RMF

→ Parent / Primary Server

→ Child / Secondary Server