

## Creating Web Services using IWS cheat sheet

MAGiC IWS link

<http://10.2.5.250:2001/HTTPAdmin>

Create SQL tables (**substitute your library with your own**)

```
RUNSQLSTM SRCFILE(mlarsen/QDDL SRC) SRCMBR(RestLog) COMMIT(*NONE)
DFTRDBCOL(mlarsen)
```

```
RUNSQLSTM SRCFILE(mlarsen/QDDL SRC) SRCMBR(Sales_Hist) COMMIT(*NONE)
DFTRDBCOL(mlarsen)
```

### Create RPG objects

#### REST\_1\_ML

```
CRTBNDRPG PGM(MLARSEN/REST_1_ML) SRCFILE(MLARSEN/QRPGLESRC) SRCMBR(REST_1_ML)
OPTION(*EVENTF) DBGVIEW(*SOURCE) REPLACE(*YES)
```

#### REST\_2\_ML

```
CRTSQRPGI OBJ(MLARSEN/REST_2_ML) SRCFILE(MLARSEN/QRPGLESRC) SRCMBR(REST_2_ML)
OBJTYPE(*MODULE) OPTION(*EVENTF) REPLACE(*YES) DBGVIEW(*SOURCE) USRPRF(*NAMING)
```

```
CRTSRVPGM SRVPGM(mlarsen/Rest_2_ml) MODULE(mlarsen/Rest_2_ml)
EXPORT(*ALL) SRCFILE(mlarsen/QRPGLESRC)
```

#### REST\_3\_ML

```
CRTSQRPGI OBJ(MLARSEN/REST_3_ML) SRCFILE(MLARSEN/QRPGLESRC) SRCMBR(REST_3_ML)
OBJTYPE(*MODULE) OPTION(*EVENTF) REPLACE(*YES) DBGVIEW(*SOURCE) USRPRF(*NAMING)
```

```
CRTSRVPGM SRVPGM(mlarsen/Rest_3_ml) MODULE(mlarsen/Rest_3_ml)
EXPORT(*ALL) SRCFILE(mlarsen/QRPGLESRC)
```

#### WRITE\_LOG

```
CRTSQRPGI OBJ(MLARSEN/WRITE_LOG) SRCFILE(MLARSEN/QRPGLESRC) SRCMBR(WRITE_LOG)
OPTION(*EVENTF) REPLACE(*YES) DBGVIEW(*SOURCE) USRPRF(*NAMING)
```

## Lab 1

URI path template for method  
/{ParmInMessage:\w+}

SQL to check REST log

```
SELECT * FROM mlarsen/RESTLOG
```

## Lab 2

URI path template for 'GetAll' method  
/{Channel:\w+}/{Store:\d+}/{InvDate:\d+}

Testing 'CreateInvoice'

JSON sent to Web Service

```
{  
  "INCHANNEL": "RT",  
  "INSTORE": "00099",  
  "ININVDATE": "20171126",  
  "ININVNUM": "000990000100016",  
  "INTRNT": "01",  
  "INTRNAMT": "200.00",  
  "INTAXAMT": "6.00"  
}
```

Testing 'GetAll'

[http://10.2.5.250:10024/web/services/REST\\_2\\_ML/RT/00099/20171126](http://10.2.5.250:10024/web/services/REST_2_ML/RT/00099/20171126)

## Lab 3

URI path template for 'DeleteInvoice' method  
/{Channel:\w+}/{Store:\d+}/{InvDate:\d+}/{InvoiceNumber:\d+}

Testing 'UpdateInvoice'

```
{  
  "UPCHANNEL": "RT",  
  "UPSTORE": "00099",  
  "UPINVDATE": "20171126",  
  "UPINVNUM": "000990000100022",  
  "UPTRANTYPE": "01",  
  "UPTRANAMT": "999.00",  
  "UPTAXAMT": "99.99"  
}
```

Testing 'DeleteInvoice'

[http://10.2.5.250:10024/web/services/REST\\_3\\_ML/RT/00099/20171126/000990000100022](http://10.2.5.250:10024/web/services/REST_3_ML/RT/00099/20171126/000990000100022)