# Virtual Policy Database Implementation Plan

Plan for Reimplementation of VPD For following Tables

1. PER\_PAY\_PROPOSALS
2. PAY\_COSTS
3. PAY\_RUN\_RESULT\_VALUES
4. PAY\_BALANCE\_FEEDS\_F
5. PAY\_RUN\_RESULTS
6. PAY\_ASSIGNMENT\_ACTIONS
7. PAY\_PRE\_PAYMENTS
8. PAY\_LATEST\_BALANCES
9. PAY\_ELEMENT\_ENTRY\_VALUES\_F
10. PAY\_EXTERNAL\_ACCOUNTS

## Step 1. Check Before Execution

Before Migration Scripts, need output from Apps

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10 | Select count(1) from PER\_PAY\_PROPOSALS;  Select count(1) from PAY\_COSTS;  Select count(1) from PAY\_RUN\_RESULT\_VALUES;  Select count(1) from PAY\_BALANCE\_FEEDS\_F;  Select count(1) from PAY\_RUN\_RESULTS;  Select count(1) from PAY\_ASSIGNMENT\_ACTIONS;  Select count(1) from PAY\_PRE\_PAYMENTS;  Select count(1) from PAY\_LATEST\_BALANCES;  Select count(1) from PAY\_ELEMENT\_ENTRY\_VALUES\_F;  Select count(1) from PAY\_EXTERNAL\_ACCOUNTS; |

## Step 2. Execution

Execute Following Scripts from Sys as sysdba

Drop Existing Policies

EXEC DBMS\_RLS.DROP\_POLICY('HR','PER\_PAY\_PROPOSALS','XXSC\_RESTRICT\_SALARY\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_COSTS' ,'XXSC\_RESTRICT\_PAY\_COSTS\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_RUN\_RESULT\_VALUES' ,'XXSC\_RESTRICT\_RR\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_PRE\_PAYMENTS#' ,'XXSC\_PP\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_LATEST\_BALANCES#' ,'XXSC\_LATEST\_BALANCES');

EXEC DBMS\_RLS.DROP\_POLICY('HR', 'PAY\_BALANCE\_FEEDS\_F' ,'XXSC\_RESTRICT\_BALANCES\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_RUN\_RESULTS','XXSC\_RESTRICT\_RUN\_RES\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_ELEMENT\_ENTRY\_VALUES\_F#','XXSC\_RESTRICT\_ENTRY\_VALUES');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_ASSIGNMENT\_ACTIONS' ,'XXSC\_RESTRICT\_ASS\_ACCESS');

EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_EXTERNAL\_ACCOUNTS#' ,'XXSC\_PAY\_EA\_ACCESS');

Create Policies for VPD.

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  object\_name => 'PER\_PAY\_PROPOSALS' ,  policy\_name => 'XXSC\_RESTRICT\_SALARY\_ACCESS',  function\_schema => 'apps',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  object\_name => 'PAY\_COSTS' ,  policy\_name => 'XXSC\_RESTRICT\_PAY\_COSTS\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  end;  / |

|  |
| --- |
| 1  2  3  4  5  6  7  8  9  10  11 |

BEGIN

DBMS\_RLS.ADD\_POLICY (

object\_schema => 'HR',

OBJECT\_NAME => 'PAY\_RUN\_RESULT\_VALUES' ,

policy\_name => 'XXSC\_RESTRICT\_RR\_ACCESS',

function\_schema => 'APPS',

policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',

statement\_types => 'select, insert, update, delete'

);

END;

/

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  OBJECT\_NAME => 'PAY\_PRE\_PAYMENTS#' ,  policy\_name => 'XXSC\_PP\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  object\_name => 'PAY\_LATEST\_BALANCES#' ,  policy\_name => 'XXSC\_LATEST\_BALANCES',  function\_schema => 'apps',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  object\_name => 'PAY\_BALANCE\_FEEDS\_F' ,  policy\_name => 'XXSC\_RESTRICT\_BALANCES\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  OBJECT\_NAME => 'PAY\_RUN\_RESULTS' ,  policy\_name => 'XXSC\_RESTRICT\_RUN\_RES\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  end;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  object\_name => 'PAY\_ELEMENT\_ENTRY\_VALUES\_F#',  policy\_name => 'XXSC\_RESTRICT\_ENTRY\_VALUES',  function\_schema => 'apps',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  OBJECT\_NAME => 'PAY\_ASSIGNMENT\_ACTIONS' ,  policy\_name => 'XXSC\_RESTRICT\_ASS\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | BEGIN  DBMS\_RLS.ADD\_POLICY (  object\_schema => 'HR',  OBJECT\_NAME => 'PAY\_EXTERNAL\_ACCOUNTS#' ,  policy\_name => 'XXSC\_PAY\_EA\_ACCESS',  function\_schema => 'APPS',  policy\_function => 'XXSC\_HR\_PKG.XXSC\_RESTRICT\_SALARY\_ACCESS',  statement\_types => 'select, insert, update, delete'  );  END;  / |
|  |  |

## Step 3. Check Post Execution

After Migration Scripts, need output from Apps

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11  12  13  14 | Select count(1) from PER\_PAY\_PROPOSALS;  Select count(1) from PAY\_COSTS;  Select count(1) from PAY\_RUN\_RESULT\_VALUES;  Select count(1) from PAY\_BALANCE\_FEEDS\_F;  Select count(1) from PAY\_RUN\_RESULTS;  Select count(1) from PAY\_ASSIGNMENT\_ACTIONS;  Select count(1) from PAY\_PRE\_PAYMENTS;  Select count(1) from PAY\_LATEST\_BALANCES;  Select count(1) from PAY\_ELEMENT\_ENTRY\_VALUES\_F;  Select count(1) from PAY\_EXTERNAL\_ACCOUNTS; |

Script to Check when the policy status in production either from apps or sys as sysdba

|  |  |
| --- | --- |
| 1 | SELECT \* FROM ALL\_POLICIES WHERE POLICY\_NAME LIKE 'XXSC%'; |

## Step 4. Script to disable policy (Not Required Now, this is just for Documenting how to reverse)

|  |  |
| --- | --- |
| 1  2  3  4  5  6  7  8  9  10  12  13  14  15  16  17  18  19  20  21  22 | EXEC DBMS\_RLS.DROP\_POLICY('HR','PER\_PAY\_PROPOSALS','XXSC\_RESTRICT\_SALARY\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_COSTS' ,'XXSC\_RESTRICT\_PAY\_COSTS\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_RUN\_RESULT\_VALUES' ,'XXSC\_RESTRICT\_RR\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_PRE\_PAYMENTS#' ,'XXSC\_PP\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_LATEST\_BALANCES#' ,'XXSC\_LATEST\_BALANCES');  EXEC DBMS\_RLS.DROP\_POLICY('HR', 'PAY\_BALANCE\_FEEDS\_F' ,'XXSC\_RESTRICT\_BALANCES\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_RUN\_RESULTS','XXSC\_RESTRICT\_RUN\_RES\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_ELEMENT\_ENTRY\_VALUES\_F#','XXSC\_ELEMENT\_ENTRY\_VALUES');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_ASSIGNMENT\_ACTIONS' ,'XXSC\_RESTRICT\_ASS\_ACCESS');  EXEC DBMS\_RLS.DROP\_POLICY('HR','PAY\_EXTERNAL\_ACCOUNTS#' ,'XXSC\_PAY\_EA\_ACCESS'); |