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In[87]:= ExpLogPlot[base_, start_, end_] := Module[{top, vls, vhls, x, i},
  top = base^end;
  vls = Table[{{i, 0}, {i, top}}, {i, start, end}];
  vhls = Table[{{i + .5, 0}, {i + .5, top}}, {i, start, end - 1}];
  Plot[{base^x, base^Range[start, end], base^Range[start + .5, end, 1]}, {x, start, end},
  Ticks → {Range[start, end], base^Range[start, end]},
  AxesOrigin → {start, 0},
  PlotStyle → {Directive[Red, Thick],
    Directive[Darker[Blue], Thick], Directive[Darker[Blue], Thickness[0.002], Dashed]},
  Epilog → {{Directive[Black, Thick], Line[vls]},
    {Directive[Black, Dashed, Thickness[0.002]], Line[vhls]}}]}

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In[94]:= ExpLogPlot[3, -1, 4]

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