Lab Guide

Installation and configuration of Python and Kafka server

Watsonx.data

IBM Data and AI

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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACc4xsRAADALLwXAc845HkpBpiMRZ7XYgCYnLd53okB5yXwiYc8O69NKMqLEX7m69N7G6b22gQAAC7wnQgAAGAWliIAmJXKsRtgsufVd2n4AiU4L2HqPozwMxuvTejNYaSfu/C+BgAAmL9vRQAAAAAAQCC/nAaAcR2Ti32gLw8iAAAA4FrK5QAAAAAARLNNCuYAU/AoAujFOxEAAABwLeVyAAAAAAAi2uZ5n6cSBcBo2gLsUQzQ+fuqEQMAAADXUi4HAAAAACCqZVIwBxibDcvQLXcEAAAA4CbK5QAAAAAARLZICuYAY3oQAXTKBRsAAADcRLkcAAAAAIDoFMwBxrPP04gBOtEWy49iAAAA4BbK5QAAAAAA8FQw/9fpKwDDsmkZuuFOAAAAANxMuRwAAAAAAJ7U6WmDuYI5wLAUYuF27cZyF2oAAABwM+VyAAAAAAD4U5UUzAGGdsjTiAFuolgOAABAJ5TLAQAAAADgY/8vmNeiABiM7eVwm0cRAAAA0AXlcgAAAAAA+FRbMP/19BWA/u1EAFc7JpvLAQAA6IhyOQAAAAAAfN4iPW0wVzAH6F+T5yAGuMpOBAAAAHRFuRwAAAAAAL5MwRxgOA8iAO8dAAAAxqVcDgAAAAAAX/f/gjkA/XonArhYk2z9BwAAoEPK5QAAAAAA8Ly2YP6LGAB61eTZiwEu4qIMAAAAOqVcDgAAAAAA59kmBXOAvj2IAC7yVgQAAAB0SbkcAAAAAADOt83zoxgAemMLM5zvkJ42/gMAAEBnlMsBAAAAAOAyr9NTyRyA7h2Tgjmcy6Z/AAAAOqdcDgAAAAAAl2sL5gsxAPTiUQRwFhdiAAAA0DnlcgAAAAAAuFyV532eWhQAndulpw3mwJcd8jRiAAAAoGvK5QAAAAAAcJ22YP7r6SsA3bKRGb7urQgAAADog3I5AAAAAABcb5HntRgAOvcoAvgqF2AAAADQC+VyAAAAAAC4zTbPz2IA6FRbnD2KAbw/AAAAGJZyOQAAAAAA3O6nPEsxAHTKZmb4PJv9AQAA6I1yOQAAAAAAdOPXPLUYADrzVgTwWS68AAAAoDfK5QAAAAAA0I0qPRXMAejGIU8jBvjILs9RDAAAAPRFuRwAAAAAALqzyPNaDACdsaEZPvYoAgAAAPqkXA4AAAAAAN36Mc9aDACdeBAB/KHdWO6CCwAAAHqlXA7wX/bu9jqNc10D8Jss/w+ngoMrCKkg4wq2XEHsCmJXYKkCWRUYKpCowLiCcCrwpIKwK8h5381o+yOSZpgv5uO61nqWEwvDcCMLYd3zAAAAAADt+xBnKQaAxvbFAIrlAAAA9EC5HAAAAAAA2reIcysGgFbYXg7+LgAAANAT5XIAAAAAAOjGKs6lGAAas60ZQsjj7MQAAABA15TLAQAAAACgO+/CsWQOQH15nL0YmDknWQAAANAL5XIAAAAAAOjWbZyFGAAa2YgAfwcAAACge8rlAAAAAADQrWU4bjAHoL61CJixPNjeDwAAQE+UywEAAAAAoHtv4mRiAKjtEOdODMyUreUAAAD0RrkcAAAAAAD68SHOQgwAtW1FwEytRQAAAEBflMsBAAAAAKAfyzjvxABQm83lzNE+Ti4GAAAA+qJcDgAAAAAA/XkTJxMDQC2HYIMz87MRAQAAAH1SLgcAAAAAgH5diwCgtq0ImBkb+wEAAOiVcjkAAAAAAPRrFedSDAC1pKLtQQzM6PM9FwMAAAB9Ui4HAAAAAID+/R5nKQaAWmxyZi5s6gcAAKB3yuUAAAAAANC/RZwPYgCoReGWuXAiBQAAAL1TLgcAAAAAgPPI4lyIAeBkqXCbi4EZfJ4fxAAAAEDflMsBAAAAAOB8rkUAUIuNzkydDf0AAACcxTMRAADAKFyJgBK5CGBwfyd97QagqqXv5/B9CWe2G+Ex38T5t4eOCVuP8Jg3cT556AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADm4QcRAADAKGQioMQhzl4MMBiLOCsxUCIvhvlaFV8vwPeD+L4E35f0a1kM+Lvl+1v6txMBAAAMm3I5AACMw98ioMQuzgsxwGBkcT6KgRJXcS7FMGsfg5MIaU8e57kY8H0Jvi+p5E2caw87PUj/VrPz/S18Q08FAAAG7kcRAAAAAADA6C2DLbwAVd2JgB7kwYZmAAAARki5HAAAAAAApiETAUAleZy9GOiYkxgAAAAYJeVyAAAAAACYhl9FAFDZjQjo2EYEAAAAjJFyOQAAAAAATEMmAoDKbJWmS3mwHR8AAICRUi4HAAAAAIBpWBYDQLlDUDCnOzbjAwAAMFrK5QAAAAAAMB0rEQBUthUBHXHiAgAAAKOlXA4AAAAAANPxqwgAKlMApgv7OLkYAAAAGCvlcgAAAAAAmA6bywGqO8RZi4GWbUQAAADAmCmXAwAAAADAdGQiADjJVgS0zEZ8AAAARk25HAAAAAAApiUTAUBlqQh8EAMtfj7lYgAAAGDMlMsBAAAAAGBaViIAOIlN07TFJnwAAABGT7kcAAAAAACm5WcRAJxkIwJa4kQFAAAARk+5HAAAAAAApmUpAoCT7OLkYqChVCw/iAEAAICxUy4HAAAAAIBpyUQAcDIbp2nKBnwAAAAmQbkcAAAAAACmZyUCgJMoBtNE2ljuBAUAAAAmQbkcAAAAAACmZykCgJPs4+RioCbFcgAAACZDuRwAAAAAAKbH5nKA09leTl1bEQAAADAVyuUAAAAAADA9P4sA4GRrEVDDIdhcDgAAwIQolwMAAAAAwPQsRABwsjzOXgycaC0CAAAApkS5HAAAAAAApicTAUAtGxHgcwYAAIA5Uy4HAAAAAIBpWooA4GR3IuAEebDtHgAAgIlRLgcAAAAAgGlaigDgZHmcnRioyMkIAAAATI5yOQAAAAAATNNSBAC1bERARTciAAAAYGqUywEAAAAAYJqWIgCoxTZqqtiH46Z7AAAAmBTlcgAAAAAAmKb/FQFALYegYE45G+4BAACYJOVyAAAAAACYpqUIAGrbioASTkAAAABgkpTLAQAAAABgmhYiAKhtHY4bzOEh+zi5GAAAAJgi5XIAAAAAAJimlQgAGrGZmsfciAAAAICpUi4HAAAAAAAA+KetCHiEEw8AAACYLOVyAAAAAACYrqUIAGpLBeKDGPB5AQAAwJwolwMAAAAAwHQtRQDQiA3VfM9GewAAACZNuRwAAAAAAADgYTci4DtOOAAAAGDSlMsBAAAAAGC6liIAaGQfJxcDhXWcgxgAAACYMuVyAAAAAACYrqUIABqzqZp7WxEAAAAwdcrlAAAAAAAAAI/biIBw3FjuRAMAAAAmT7kcAAAAAAAA4HH7Ypg3xXIAAABmQbkcAAAAAAAA4Gm2l+NzAAAAgFlQLgcAAAAAgOn6VQQArbC1et7yODsxAAAAMAfK5QAAAAAAAABPy+PsxTBbTi4AAABgNpTLAQAAAAAAAMptROCxBwAAgKlTLgcAAAAAAAAotxbBLOXB1noAAABmRLkcAAAAAAAAoNwhzp0YZsfWcgAAAGZFuRwAAAAAAACgmq0IZmctAgAAAOZEuRwAAAAAAACgGpvL52UfJxcDAAAAc6JcDgAAAAAAAFDNISiYz8lGBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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![A black background with a black square

Description automatically generated](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAC5cAAAe3CAYAAAD5tXWFAAAAGXRFWHRTb2Z0d2FyZQBBZG9iZSBJbWFnZVJlYWR5ccllPAAAem1JREFUeNrswQEBAAAAgJD+r+4ICgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIBzfSMCAACYhfci4BmHPC/FAJOxyPNaDDzjIc9ODKG9Ph0vwHkizksgpibPnRh64f+lwXS9EAEAAEzbdyIAAIBZWIoAYFYqx27O8EEE4S0cKwDnJRDeq/RUMqc7W8c9AAAAuN63IgAAAAAAAAAYxVoEnVuJAAAAAK6nXA4AAAAAAAAwjo0IOtXerUFhHwAAAG6gXA4AAAAAAAAwjkWeWgydUSwHAACAGymXAwAAAAAAAIxnK4LOrEQAAAAAt1EuBwAAAAAAABjPRgSdqJLN5QAAAHAz5XIAAAAAAACA8dR5FmK42VYEAAAAcDvlcgAAAAAAKNdBBACzYHu5DAEAAGASlMsBAAAAAKBc/xEBwCysRXCTOtn+DgAAAJ1QLgcAAAAAAAAYV52Uo2+hnA8AAAAdUS4HAAAAAAAAGN+9CK62EQEAAAB0Q7kcAAAAAADKdRQBwGzYvn2dOtn6DgAAAJ1RLgcAAAAAgHIdRAAwG1VSML+Gje8AAADQIeVyAAAAAAAAgGlYieBiCvkAAADQIeVyAAAAAAAo11EEALOiKH2ZRZ5aDAAAANAd5XIAAAAAACjXQQQAs1IlBfNLbEQAAAAA3VIuBwAAAAAAAJgOhenzKeIDAABAx5TLAQAAAACgTI0IAGapLUxXYnjWMk8tBgAAAOiWcjkAAAAAAJSpEQHAbNnI/Twb3gEAAKAHyuUAAAAAAFCmowgAZmslgmcp4AMAAEAPlMsBAAAAAKBM/xYBwGy1xelKDPIBAACAoSmXAwAAAABAmWwuB5g3m7m/zGZ3AAAA6IlyOQAAAAAAlOkgAoBZuxfBFyneAwAAQE+UywEAAAAAoEyNCABmbZGnFsMntnkqMQAAAEA/lMsBAAAAAKBMjQgAZs+G7k+tRAAAAAD9US4HAAAAAIDyHEQAUISNCD7SbixXuAcAAIAeKZcDAAAAAEB5jiIAKMIiTy2GPyiWAwAAQM+UywEAAAAAoDwfRABQjK0I/rASAQAAAPRLuRwAAAAAAMrTiACgGBsR/E+VbC4HAACA3imXAwAAAABAeRoRABSjzrMQgw3uAAAAMATlcgAAAAAAKM9eBABFsb1cBgAAADAI5XIAAAAAACjLQQQAxVkH//3rZHs7AAAADEK5HAAAAAAAyqJcDlCeOsUuV6+9BAAAAGAYyuUAAAAAAFCW30QAUKT7wL/7xtMPAAAAw1AuBwAAAACAsuxFAFCkqNu76xR7azsAAAAMSrkcAAAAAADKshcBQJGqFLNgfu+pBwAAgOEolwMAAAAAQDkOIgAo2irg77z2tAMAAMBwlMsBAAAAAKAcyuUAZYtWtF7kqT3tAAAAMBzlcgAAAAAAKMcHEQAUrUqxCuYbTzkAAAAMS7kcAAAAAADKsRcBQPEiFa7Xnm4AAAAYlnI5AAAAAACU4ZinEQNA8drCdRXg91zmqT3dAAAAMCzlcgAAAAAAKMNeBABhRNjovfE0AwAAwPCUywEAAAAAoAwfRAAQxirA77j2NAMAAMDwlMsBAAAAAKAMexEAhNEWryu/HwAAANA15XIAAAAAAJi/Js9BDAChlLzZe+XpBQAAgHF8JwIAAJiFVyLgGY0IYHLvScdunrMXQXgPeT6IAeeDOC8B+ER7jvSbGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABgur4RAQAAzMJSBDzjmOcgBpiMKs9CDACc6XA6nwPnJUBJnz31aQD+ai8CAACYNuVyAACYh99FwDP2eV6IASZjmee9GAA4Q1vs+0dSLsd5CTCsuzy7nn/GL3m2ogb+Rk8FAAAm7lsRAAAAAADAaF4lxXIAhrca4GesxQwAAADzo1wOAAAAAADjOOR5IwYARtAWv6sZPz4AAADQE+VyAAAAAAAYx0sRADCiPjeLr8QLAAAA86RcDgAAAAAAw9vl2YsBmIijCEK67/Gx1+IFAACAeVIuBwAAAACAYbUlTlvLgSl5J4KQFnnqHh53m6cSb8jzm70YAAAA5k+5HAAAAAAAhnWXbAkGpuW3PAcxhNTHhvGVWEPaiQAAAKAMyuUAAAAAADCcfbIhGJimBxGEtOn48dqN5WuxOoYAAAAwX8rlAAAAAAAwjHZb+Z0YgIly4UtMizx1h4+nWB5Tk9z9AAAAoBjK5QAAAAAAMIxX6al8BTBF7fFpL4aQth0+1kqcIbk4BQAAoCDK5QAAAAAA0L99njdiACbuQQQhbTp6nCrZXB7VWxEAAACUQ7kcAAAAAAD6dcxzJwZgBmwfjqnOs+jgcbaiDOmQ3JkFAACgKMrlAAAAAADQr7ZY3ogBmIH2YhgF85g2E3kM5scdDwAAAAqjXA4AAAAAAP15lxQ1gXl5FEFI6xu/v07dbD9nnuc6AAAAFES5HAAAAAAA+tGkp63lAHOyS08bzImlTreVw9ciDOmQ3J0FAACgOMrlAAAAAADQj7ZYrqAJzJFNxDFtRvpe5uutCAAAAMqjXA4AAAAAAN17lWcvBmCmHkUQ0vbK76vTbVvPmS8XogAAABRIuRwAAAAAALq1z/OzGIAZawuj7rwQT5VnfcX33YvOcQIAAIByKJcDAAAAAEB32pLVD2IACmAjcUyrK75nLbaQ3OEAAACgUMrlAAAAAADQnbZYbosnUIK3Igjp0qL4Ik8ttpBcgAIAAFAo5XIAAAAAAOjGyzx7MQCFOORpxBBOlS4rmG9EFtIuuZgOAACgWMrlAAAAAABwu12eN2IACmMzcUyrC/7ZtbhCehQBAABAuZTLAQAAAADgNu1235diAAr0IIKQtulpg/lzlnlqcYXTbix34QkAAEDBlMsBAAAAAOB6bcHqh9NXgNIcTkM852wk34gpJMVyAACAwimXAwAAAADA9V7kacQAFMz28phWZ/wzazE5JgAAAFAe5XIAAAAAALjOXbLRFyifLcUxtcXx6oa/T5maPHsxAAAAlE25HAAAAAAALvcmz04MQABNciFNVF/bTL4ST0guNgEAAAhAuRwAAAAAAC6zy/NSDEAgDyIIafOVv7cWj2MBAAAAZVIuBwAAAACA87Xbe+/EAASzE0FIyzz1Z/76Nk8lnnCa5C4GAAAAISiXAwAAAADAedpC1QsxAAEd87wTQ0if21C+EktItpYDAAAEoVwOAAAAAADPa9JTsfwoCiCoRxGEtPnbn9uN5WuxhLQTAQAAQAzK5QAAAAAA8HVtofyHpFgOxGZzeUyLPPVf/qxYHlN795ZGDAAAADEolwMAAAAAwJe1hfJ2Y/lBFIDjoYJ5UH8tlK/EEdKDCAAAAOJQLgcAAAAAgM9TLAf4mIJpTPenr1WyuTwqF5YAAAAE8p0IAAAAAADgE4rlAJ96dzo+VqIIpc6zOA0x3/eNGAAAAOKwuRwAAAAAAD6mWA7wZTYYx7RJf24wJ5ZHEQAAAMSiXA4AAAAAAH9SLAf4OkXTmNbJ5vKoXFACAAAQjHI5AAAAAAA8USwHeF5bNG3EEE4tgrDv96MYAAAAYlEuBwAAAAAAxXKAS9hkDDG4UwEAAEBAyuUAAAAAAESnWA5wmQcRQIjzo50YAAAA4lEuBwAAAAAgMsVygMu1x8xGDFA0dygAAAAISrkcAAAAAIComqRYDnAtxVMo26MIAAAAYlIuBwAAAAAgorZQ/s+kWA5wrbcigGK1d3ZxAQkAAEBQyuUAAAAAAETTFsrbjeVHUQBcrUku0IFSKZYDAAAEplwOAAAAAEAku/S0sVyxHOB2DyKAIrkzAQAAQGDK5QAAAAAARPEqz50YADpjuzGUp0nuSgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACc4xsRAADALLwXAc845HkpBpiMRZ7XYgCYnLd53okB5yXwiYc8O69NKMqLEX7m69N7G6b22gQAAC7wnQgAAGAWliIAmJXKsRtgsufVd2n4AiU4L2HqPozwMxuvTejNYaSfu/C+BgAAmL9vRQAAAAAAQCC/nAaAcR2Ti32gLw8iAAAA4FrK5QAAAAAARLNNCuYAU/AoAujFOxEAAABwLeVyAAAAAAAi2uZ5n6cSBcBo2gLsUQzQ+fuqEQMAAADXUi4HAAAAACCqZVIwBxibDcvQLXcEAAAA4CbK5QAAAAAARLZICuYAY3oQAXTKBRsAAADcRLkcAAAAAIDoFMwBxrPP04gBOtEWy49iAAAA4BbK5QAAAAAA8FQw/9fpKwDDsmkZuuFOAAAAANxMuRwAAAAAAJ7U6WmDuYI5wLAUYuF27cZyF2oAAABwM+VyAAAAAAD4U5UUzAGGdsjTiAFuolgOAABAJ5TLAQAAAADgY/8vmNeiABiM7eVwm0cRAAAA0AXlcgAAAAAA+FRbMP/19BWA/u1EAFc7JpvLAQAA6IhyOQAAAAAAfN4iPW0wVzAH6F+T5yAGuMpOBAAAAHRFuRwAAAAAAL5MwRxgOA8iAO8dAAAAxqVcDgAAAAAAX/f/gjkA/XonArhYk2z9BwAAoEPK5QAAAAAA8Ly2YP6LGAB61eTZiwEu4qIMAAAAOqVcDgAAAAAA59kmBXOAvj2IAC7yVgQAAAB0SbkcAAAAAADOt83zoxgAemMLM5zvkJ42/gMAAEBnlMsBAAAAAOAyr9NTyRyA7h2Tgjmcy6Z/AAAAOqdcDgAAAAAAl2sL5gsxAPTiUQRwFhdiAAAA0DnlcgAAAAAAuFyV532eWhQAndulpw3mwJcd8jRiAAAAoGvK5QAAAAAAcJ22YP7r6SsA3bKRGb7urQgAAADog3I5AAAAAABcb5HntRgAOvcoAvgqF2AAAADQC+VyAAAAAAC4zTbPz2IA6FRbnD2KAbw/AAAAGJZyOQAAAAAA3O6nPEsxAHTKZmb4PJv9AQAA6I1yOQAAAAAAdOPXPLUYADrzVgTwWS68AAAAoDfK5QAAAAAA0I0qPRXMAejGIU8jBvjILs9RDAAAAPRFuRwAAAAAALqzyPNaDACdsaEZPvYoAgAAAPqkXA4AAAAAAN36Mc9aDACdeBAB/KHdWO6CCwAAAHqlXA7wX/bu9jqNc10D8Jss/w+ngoMrCKkg4wq2XEHsCmJXYKkCWRUYKpCowLiCcCrwpIKwK8h5381o+yOSZpgv5uO61nqWEwvDcCMLYd3zAAAAAADt+xBnKQaAxvbFAIrlAAAA9EC5HAAAAAAA2reIcysGgFbYXg7+LgAAANAT5XIAAAAAAOjGKs6lGAAas60ZQsjj7MQAAABA15TLAQAAAACgO+/CsWQOQH15nL0YmDknWQAAANAL5XIAAAAAAOjWbZyFGAAa2YgAfwcAAACge8rlAAAAAADQrWU4bjAHoL61CJixPNjeDwAAQE+UywEAAAAAoHtv4mRiAKjtEOdODMyUreUAAAD0RrkcAAAAAAD68SHOQgwAtW1FwEytRQAAAEBflMsBAAAAAKAfyzjvxABQm83lzNE+Ti4GAAAA+qJcDgAAAAAA/XkTJxMDQC2HYIMz87MRAQAAAH1SLgcAAAAAgH5diwCgtq0ImBkb+wEAAOiVcjkAAAAAAPRrFedSDAC1pKLtQQzM6PM9FwMAAAB9Ui4HAAAAAID+/R5nKQaAWmxyZi5s6gcAAKB3yuUAAAAAANC/RZwPYgCoReGWuXAiBQAAAL1TLgcAAAAAgPPI4lyIAeBkqXCbi4EZfJ4fxAAAAEDflMsBAAAAAOB8rkUAUIuNzkydDf0AAACcxTMRAADAKFyJgBK5CGBwfyd97QagqqXv5/B9CWe2G+Ex38T5t4eOCVuP8Jg3cT556AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADm4QcRAADAKGQioMQhzl4MMBiLOCsxUCIvhvlaFV8vwPeD+L4E35f0a1kM+Lvl+1v6txMBAAAMm3I5AACMw98ioMQuzgsxwGBkcT6KgRJXcS7FMGsfg5MIaU8e57kY8H0Jvi+p5E2caw87PUj/VrPz/S18Q08FAAAG7kcRAAAAAADA6C2DLbwAVd2JgB7kwYZmAAAARki5HAAAAAAApiETAUAleZy9GOiYkxgAAAAYJeVyAAAAAACYhl9FAFDZjQjo2EYEAAAAjJFyOQAAAAAATEMmAoDKbJWmS3mwHR8AAICRUi4HAAAAAIBpWBYDQLlDUDCnOzbjAwAAMFrK5QAAAAAAMB0rEQBUthUBHXHiAgAAAKOlXA4AAAAAANPxqwgAKlMApgv7OLkYAAAAGCvlcgAAAAAAmA6bywGqO8RZi4GWbUQAAADAmCmXAwAAAADAdGQiADjJVgS0zEZ8AAAARk25HAAAAAAApiUTAUBlqQh8EAMtfj7lYgAAAGDMlMsBAAAAAGBaViIAOIlN07TFJnwAAABGT7kcAAAAAACm5WcRAJxkIwJa4kQFAAAARk+5HAAAAAAApmUpAoCT7OLkYqChVCw/iAEAAICxUy4HAAAAAIBpyUQAcDIbp2nKBnwAAAAmQbkcAAAAAACmZyUCgJMoBtNE2ljuBAUAAAAmQbkcAAAAAACmZykCgJPs4+RioCbFcgAAACZDuRwAAAAAAKbH5nKA09leTl1bEQAAADAVyuUAAAAAADA9P4sA4GRrEVDDIdhcDgAAwIQolwMAAAAAwPQsRABwsjzOXgycaC0CAAAApkS5HAAAAAAApicTAUAtGxHgcwYAAIA5Uy4HAAAAAIBpWooA4GR3IuAEebDtHgAAgIlRLgcAAAAAgGlaigDgZHmcnRioyMkIAAAATI5yOQAAAAAATNNSBAC1bERARTciAAAAYGqUywEAAAAAYJqWIgCoxTZqqtiH46Z7AAAAmBTlcgAAAAAAmKb/FQFALYegYE45G+4BAACYJOVyAAAAAACYpqUIAGrbioASTkAAAABgkpTLAQAAAABgmhYiAKhtHY4bzOEh+zi5GAAAAJgi5XIAAAAAAJimlQgAGrGZmsfciAAAAICpUi4HAAAAAAAA+KetCHiEEw8AAACYLOVyAAAAAACYrqUIAGpLBeKDGPB5AQAAwJwolwMAAAAAwHQtRQDQiA3VfM9GewAAACZNuRwAAAAAAADgYTci4DtOOAAAAGDSlMsBAAAAAGC6liIAaGQfJxcDhXWcgxgAAACYMuVyAAAAAACYrqUIABqzqZp7WxEAAAAwdcrlAAAAAAAAAI/biIBw3FjuRAMAAAAmT7kcAAAAAAAA4HH7Ypg3xXIAAABmQbkcAAAAAAAA4Gm2l+NzAAAAgFlQLgcAAAAAgOn6VQQArbC1et7yODsxAAAAMAfK5QAAAAAAAABPy+PsxTBbTi4AAABgNpTLAQAAAAAAAMptROCxBwAAgKlTLgcAAAAAAAAotxbBLOXB1noAAABmRLkcAAAAAAAAoNwhzp0YZsfWcgAAAGZFuRwAAAAAAACgmq0IZmctAgAAAOZEuRwAAAAAAACgGpvL52UfJxcDAAAAc6JcDgAAAAAAAFDNISiYz8lGBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Shape

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# Downloading & Installation Steps

# Python

# Download the Python latest version from below URL

# <https://www.python.org/ftp/python/3.11.4/python-3.11.4-macos11.pkg>

# Jupyter Notebook

# <https://jupyter.org/install>

# Kafka Downloading Procedure

# Download source location

# <https://kafka.apache.org/downloads>

# Installation & Verification Steps

# Python & Jupyter notebook

Installation and configuration of Jupyter notebook is already done so you can now start the Jupyter Notebook server using below steps and replace your server ip address with the sample server give

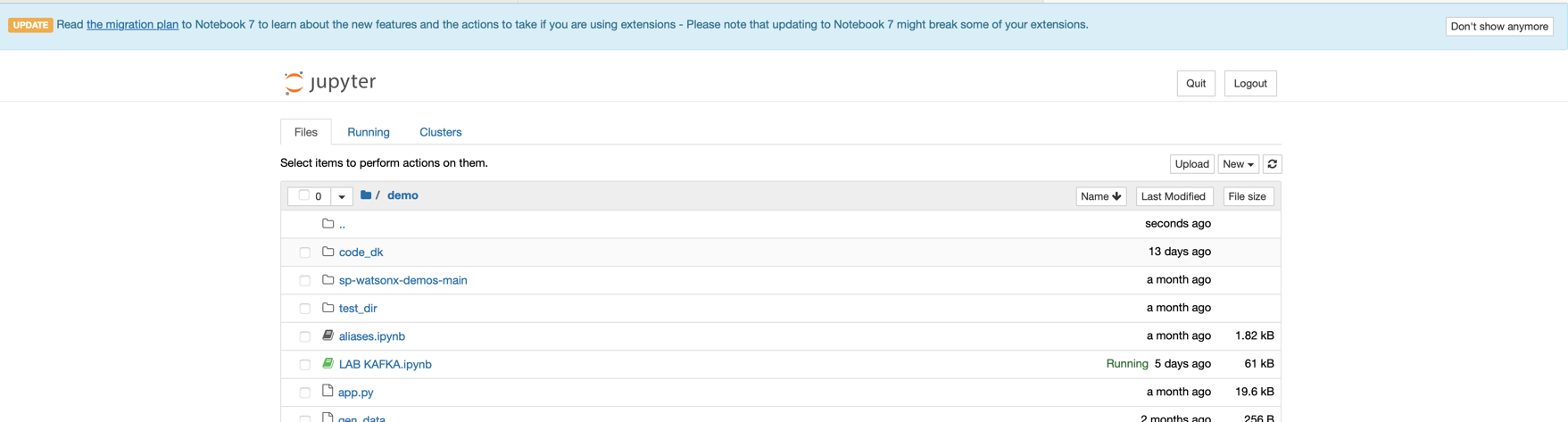
* start the jupyter notebook using the below command

command ##

jupyter notebook --ip=169.60.148.131 --port=8888 --allow-root --notebook-dir=/root/ &

The above command will start the jupyter notebook server and it gives us the url with token to fetch the latest python notebook file like

<http://169.60.148.131:8888/?token=971a1a9a3c31d9f09d771bcb3acab7239898c44ea83cf5af>

This URL is going to open the notebook file which you have created to access watsonx.data environment if you have made the similar settings in the python server

The Files are available as part of the box files

1. Python script
2. Alias script
3. Gen Data script
4. Orders.tpl

<https://ibm.ent.box.com/folder/223713765043>

also available as part of GitLibrary

<https://github.ibm.com/Dinesh-Kulkarni1/Watsonx-VEST>

# Kafka Server

Kafka Server - installation steps

* 1. Download source location

<https://kafka.apache.org/downloads>

* 1. Unzip the file using

tar xvzf kafka\_2.11-0.11.0.0.tgz

* 1. Create softlink of kafka directory

ln -s kafka\_2.11-0.11.0.0/ kafka

* 1. Edit /opt/kafka/config/server.properties and change the listeners property

Update or review the below details:

listeners=PLAINTEXT://0.0.0.0:9092

* 1. Reload and start the systemd services

systemctl daemon-reload

systemctl start kafka-zookeeper.service

systemctl start kafka.service

Finally check the status of Kafka server is running or not

systemctl status kafka.service

A screenshot of a computer

Description automatically generated

Start Watsonx.data Server

Step 1:

Login to Unix/Linux box where we have installed all the applications like python, kafka and watsonx.data

Step 2:

Set or verify the PATH variable for the below values :

export LH\_ROOT\_DIR=/root/lakehouseinstall

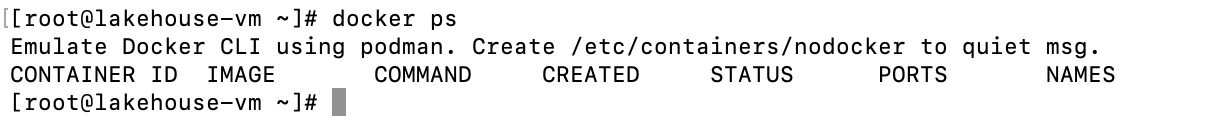
export PATH=$PATH:$LH\_ROOT\_DIR/ibm-lh-dev/bin

Step 3:

After login to the Unix box navigate to the ibm-lh-dev/bin directory to start the watsonx.data server

Step 4:

Verify if any docker is in running state

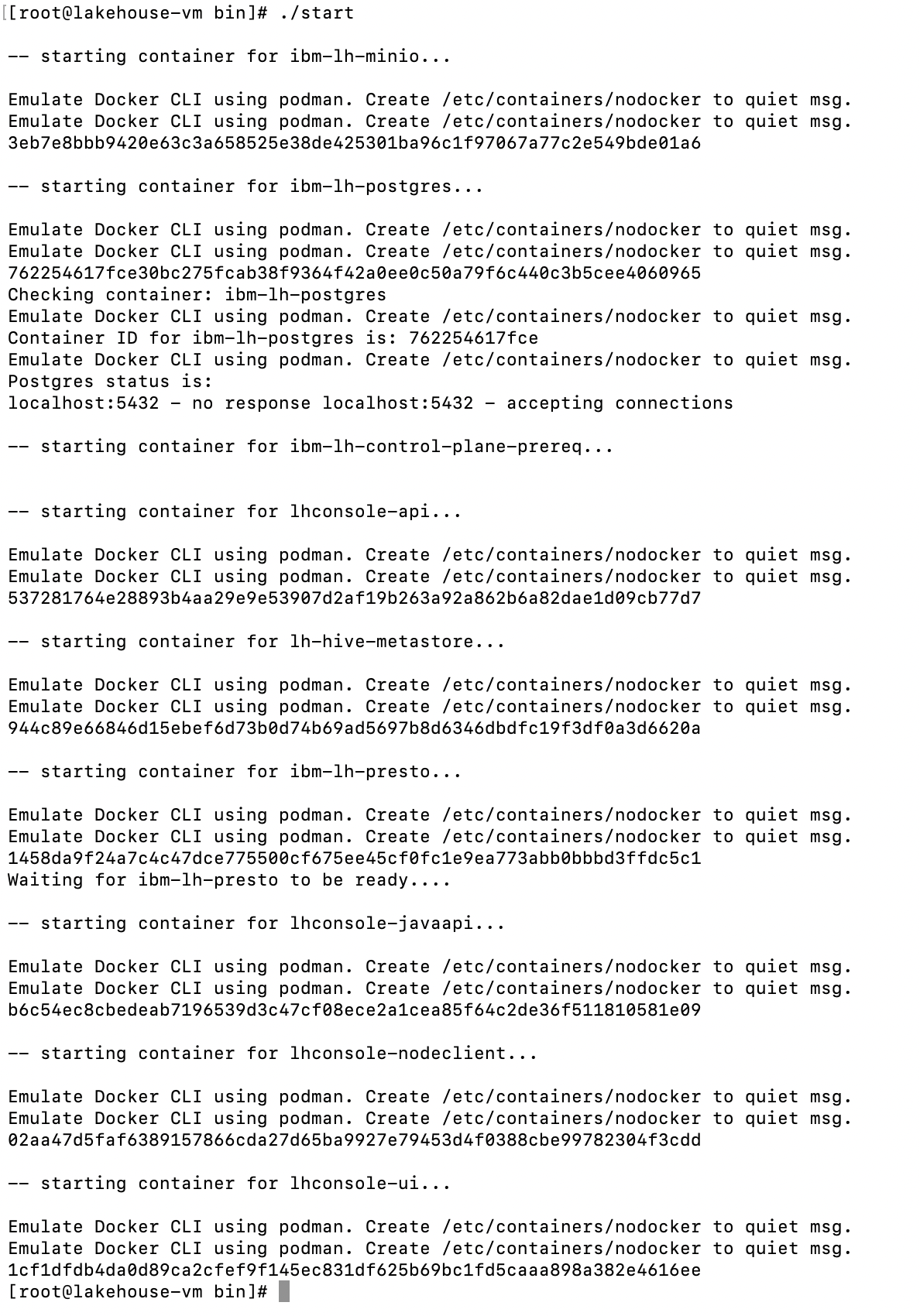


Step 5:

Start the watsonx.data by executing start script from the bin directory

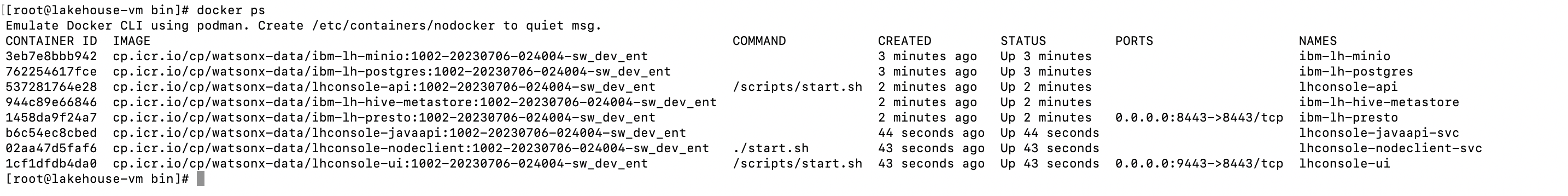
A close up of a number

Description automatically generated



Step 6:

Verify the docker running status using docker ps command



Now, we are good to execute queries on Watsonx.data, before this we are going to check the other services are up and running

Step 7:

Open the URL of watsonx.data by specifying your sever IP Address and credential provided by you

<https://169.60.148.131:9443/#/home>

A screenshot of a computer

Description automatically generated

Use Credential to login

User Name : ibmlhadmin. Password: password

Conclusion

In this lab, you've learned how to connect to Watsonx.data using the Presto CLI and executed queries to explore available catalogs, schemas, tables, functions, and gather statistics. This knowledge will help you navigate and utilize Watsonx.data effectively for your data exploration needs.