

ØØ³Ø§Ø· Ø§Ù,,Ù,ÙŠÙ...Ø©
Ø§Ù,,Ù...Ø!Ù^ÙŠØ© 95 Ù,,Ø§Ø³ØªØ®Ø-Ø§Ù...
Ù...Ø¹Ø-Ù,, Ø§Ù,,ØªØ-Ù◊Ù, Ù◊ÙŠ
ØªØÙ,,ÙŠÙ,,Ø§Øª Ø§Ù,,Ø´Ø·ÙfØ©
Ø§Ù,,ØçÙ...Ù†Ø©

Ø§Ù,,Ù...ØØªÙ^ÙŠØ§Øª

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[Ø§Ù,,Ù...ØªØ·Ù,,Ø·Ø§Øª Ø§Ù,,Ø£Ø³Ø§Ø³ÙŠØ©](#)
[Ø§Ù,,Ù...ØªØ·Ù,,Ø·Ø§Øª](#)
[Ø§Ù,,Ù...ÙfÙ^Ù†Ø§Øª Ø§Ù,,Ù...Ø³ØªØ®Ø-Ù...Ø©](#)
[Ù...Ø¹Ù,,Ù^Ù...Ø§Øª Ø£Ø³Ø§Ø³ÙŠØ©](#)
[Ø§Ù,,ØªØÙ,Ù, Ù...Ù† Ø§Ù,,ØØØ©](#)
[ØªØ£ÙfÙŠØ-Ù,ÙŠÙ...Ø© Ø§Ù,,Ù,ÙŠÙ...Ø© Ø§Ù,,Ù...Ø!Ù^ÙŠØ© 95 Ù◊ÙŠ Ù,Ø§Ø¹Ø-Ø©](#)
[Ø·ÙŠØ§Ù†Ø§Øª Ù-ØØ-Ø© ØªØÙfÙ... Ø¥Ø-Ø§Ø±Ø© Stealthwatch](#)
[Ø§Ø³ØªÙfØ·Ø§Ù◊ Ø§Ù,,Ø£Ø®Ø·Ø§Ø; Ù-Ø¥ØµÙ,,Ø§ØÙ±Ø§](#)
[Ø§Ø³Øª· Ù†Ø³Ø·Ø© Ø§Ù,, 95 Ø§Ù,,Ù...Ø!Ù^ÙŠØ© Ù,,ÙŠÙÙ... Ù-Ø§ØØ-Ù...Ù†](#)
[Ø§Ù,,Ø§Ø³ØªØ®Ø-Ø§Ù...](#)

Ø§Ù,,Ù...Ù,Ø-Ù...Ø©

ÙŠÙ^Ø¶Ø Ù±Ø°Ø§ Ø§Ù,,Ù...Ø³ØªÙ†Ø- ÙfÙŠÙ◊ÙŠØ© ØØ³Ø§Ø· Ø§Ù,,Ù,ÙŠÙ...Ø©
Ø§Ù,,Ù...Ø!Ù^ÙŠØ© 95 Ù,,Ø§Ø³ØªØ®Ø-Ø§Ù... Ù...Ø¹Ø-Ù,, Ø§Ù,,ØªØ-Ù◊Ù, Ù◊ÙŠ
Stealthwatch Ø£Ù^ ØªØÙ,,ÙŠÙ,,Ø§Øª Ø§Ù,,Ø´Ø·ÙfØ© Ø§Ù,,ØçÙ...Ù†Ø© Ù,,ØªØ±Ø®ÙŠØµ
Ù...Ø¹Ø-Ù,, Ø§Ù,,ØªØ-Ù◊Ù,

Ø§Ù,,Ù...ØªØ·Ù,,Ø·Ø§Øª Ø§Ù,,Ø£Ø³Ø§Ø³ÙŠØ©

Ø§Ù,,Ù...ØªØ·Ù,,Ø·Ø§Øª

cisco ÙŠÙ^Ø¶Ø Ø£Ù† ÙŠØªÙ,,Ù,Ù% Ø£Ù†Øª Ù...Ø¹Ø±Ù◊Ø© Ù◊ÙŠ Ù±Ø°Ø§ Ù...Ù^Ø¶Ù^Ø¹:

- ØªØ±Ø®ÙŠØµØ§Ù,,Ø·Ø±Ø§Ù...Ø- Ø§Ù,,Ø°ÙfÙŠØ©
- ØªÙ†Ù,Ù,, ØªØÙ,,ÙŠÙ,,Ø§Øª Ø§Ù,,Ø´Ø·ÙfØ© Ø§Ù,,Ø£Ù...Ù†Ø© Ø-Ø§Ø®Ù,, Ù,,Ù-ØØ©
Ø§Ù,,Ù...Ø¹Ù,,Ù^Ù...Ø§Øª Ø§Ù,,Ø±Ø!ÙŠØ³ÙŠØ©

Ø§Ù,,Ù...ÙfÙ^Ù†Ø§Øª Ø§Ù,,Ù...Ø³ØªØ®Ø-Ù...Ø©

Ø£Ø³ØªØª Ø§Ù,,Ù...Ø¹Ù,,Ù^Ù...Ø© Ù◊ÙŠ Ù±Ø°Ø§ Ù-Ø«ÙŠÙ,Ø© Ø¹Ù,,Ù% Ù±Ø°Ø§
Ø·Ø±Ù...Ø-ÙŠØ© Ù-Ø-Ù±Ø§Ø² ØµÙŠØ°Ø©:

- Ù-ØØ-Ø© ØªØÙfÙ... Ø¥Ø-Ø§Ø±Ø© StealthwatchØ£ Ø§Ù,,Ø¥ØØ-Ø§Ø± 7.4.1

ðšðªù... ð³ðð· ð§ù,,ù,ùšù...ðð ð§ù,,ðªùš ðšðªù... ðªù,ð-ùšù...ù‡ð§ ððùš ðªð±ððùšðµ
 ð...ð¹ð-ù,, ð§ù,,ðªð-ùðù,ðð ðªððª ð¥ð³ðªððð-ð§ù... ð§ù,,ðªð±ððùšðµ
 ð§ù,,ð°ùfùšðð ð...ù‡ ð§ù,,ð-ð-ù^ù,, flow_collection_summary ð...ù‡ ð,ð§ð¹ð-ðð
 ð-ùšð§ù‡ð§ðª ð-ðð-ðð ðªðùfù... ð¥ð-ð§ð±ðð Stealthwatch. ð,,ù,,ðªð´ð§ù^ð± ð...ð¹
 ð‡ð°ð§ ð§ù,,ð-ð-ù^ù,,ðð ð³ð-ù,, ð§ù,,ð-ððù^ù,, ð¥ù,,ù% ð-ðð-ðð ðªðùfù...
 ð¥ð-ð§ð±ðð Stealthwatch ð¹ð-ð± SSH ðfð-ð°ð± ð-ù,ù... ð-ðªð´ð°ùšù,, ð§ù,,ððù...ð±:

```
/opt/vertica/bin/vsql -U dbadmin -w lanlcope -c "select last_time, fps_95 from flow_collection_summary"
```

ð...ù,,ð§ððð,ðð: ðªð³ðªððð-ù... ð§ù,,ððù-ð§ù...ð± ð§ù,,ù...ù,ð-ù...ðð ððùš
 ð‡ð°ð§ ð§ù,,ù...ð³ðªù‡ð- ðfù,,ù...ðð ð§ù,,ù...ð±ù^ð± ð§ù,,ð§ùððªð±ð§ð¶ùšðð
 ð,,ù,ð§ð¹ð-ðð ð-ùšð§ù‡ð§ðª ð-ðð-ðð ðªðùfù... ð¥ð-ð§ð±ðð Stealthwatch.
 ð¥ð°ð§ ðªù... ðªð°ùšùšð± ðfù,,ù...ðð ð...ð±ù^ð± ð,ð§ð¹ð-ðð
 ð§ù,,ð-ùšð§ù‡ð§ðª ððùš ð-ùšð¹ðªùfðð ððù,ù... ð-ð¶ð-ð· ð§ù,,ððù^ð§ù...ð±
 ð-ðùšð« ðšùfù^ù‡ ð,,ù‡ð§ ð§ù,,ù,ùšù...ðð ð§ù,,ðµðùšðð

ðšð¹ð±ð¶ ð§ù,,ù‡ð§ðªð- ð§ù,,ð³ð-ù,,ð§ðª ð§ù,,ðððððððð ð-ð§ù,,ððùšð§ù...
 ð§ù,,ððù...ð³ðð ð§ù,,ððððùšð±ðð ð-ððððð ð§ù,, 95 ð§ù,,ù...ð!ù-ùšðððððð ððð-ð
 ðððð-ð« ð§ù,,ðªð³ð-ùšù,,ð§ðª. ð§ð±ð-ð¹ ð¥ù,,ù% ð§ù,,ð¶-ð±ðð ð§ù,,ðªð§ù,,ùšðð
 ðfù...ð«ð§ù,,:

last_time	fps_95
2023-04-18 00:00:00+00	68
2023-04-17 00:00:00+00	66
2023-04-16 00:00:00+00	58
2023-04-15 00:00:00+00	66
2023-04-14 00:00:00+00	82

(5 rows)

ðfù...ð§ ð‡ù^ ð...ù-ð¶ð ððùš ð...ð¹ù,,ù^ù...ð§ðª ð§ù,,ððù,,ùðùšðððð ðšðªù...
 ðð³ð§ð- ð§ù,,ð§ð³ðªððð-ð§ù... ð§ù,,ùšù^ù...ùš ð,,ù...ð¹ð-ù,, ð§ù,,ðªð-ùðù,
 ð§ù,,ù...ð¹ð±ù^ð¶ ð¹ù,,ù% ð´ð§ð´ðð ð§ù,,ðªð±ððùšðµ ð§ù,,ð°ùfùš ð§ð³ðªù‡ð§ð-ð§
 ð¥ù,,ù% ððªð±ðð ð§ù,, 24 ð³ð§ð¹ðð ð§ù,,ð³ð§ð-ù,ðð. ðšðªù... ð¹ð±ð¶
 ðªð-ð§ùšù‡ ð-ùšù‡ ð§ù,,ðªù^ð§ð±ùšðð ððùš ð§ù,,ð-ð-ù^ù,,
 flow_collection_summaryðð ð‡ð,ð±ð§ ð,,ððù‡ù‡ ðšð¹ð±ð¶ ð,ùšù...ðð ð,,ùšù^ù... ð,,ù...
 ðšù‡ðªù‡ùš ð-ð¹ð-ð. ðšð±ð-ð¹ ð°ù,,ùf ð¥ù,,ù% ðfùšùðùšðð ðð³ð§ð-
 ð§ù,,ð§ð³ðªððð-ð§ù... ððùš ð‡ù‡ù‡ùšðð ðfù,, ðšù^ù... ððùš ð³ð§ð¹ðð
 ð¥ð¹ð§ð-ðð ð§ù,,ðªð¹ùšùšù‡ðð ððùš 00:00:00. ððùš ð´ð§ð´ðð ð§ù,,ðªð±ððùšðµ
 ð§ù,,ð°ùfùšðð ðªðªù^ð§ùðù, ð,ùšù...ðð FPS_95 ð...ð¹ ð§ù,,ù,ùšù...ðð
 ð§ù,,ù...ù,ð-ù...ðð ð,,ù,,ùšù^ù... ð§ù,,ðð§ù,,ùš (2023-04-18). ð±ð§ð-ð¹ ð§ù,,ðµù^ð±ðð
 ð§ù,,ðªð§ù,,ùšðð:

last_time	fps
2023-04-17 07:36:00+00	94
2023-04-17 00:48:00+00	88
2023-04-17 14:24:00+00	86
2023-04-17 23:28:00+00	85
2023-04-17 15:33:00+00	85
2023-04-17 00:01:00+00	85
2023-04-17 20:11:00+00	79
2023-04-17 00:50:00+00	79
2023-04-17 11:00:00+00	78
2023-04-17 20:13:00+00	77
2023-04-17 20:05:00+00	77
2023-04-17 20:15:00+00	76
2023-04-17 23:22:00+00	75
2023-04-17 16:36:00+00	75
2023-04-17 00:51:00+00	75
2023-04-17 15:32:00+00	74

ùšøøªùˆùš ø¹ù...ùˆøˆ FPS_95 ùˆùš flow_collection_summary ø¹ù,,ù%ò ù,ùšù...øªù‡
 øšù,,ù...ø³ùˆøˆ øˆ ù...ù† ø³øˆ-ù,,øšøª 1440 øˆù,ùšù,øˆ-FPS øšù,,øˆøšøµøˆ
 øˆ ùšùˆù... ùˆøšøøˆ. øˆ ù...øš øÉù† øšù,,ù†ø³øˆ øˆ øšù,,ù...ø¹ùˆùšøˆ øšù,, 95 ùˆùšù,øˆ
 ùšøªù... øšù,,øªøˆ ù,,ùšøˆ ø¹ù†ù‡øšø ø³øšøˆ ù,øšøˆ ùˆøøù† ù‡øˆøš ùšø¹ù†ùš
 øªøˆ-øšù‡ù,, øšù,, 5ùª øšù,,øÉùˆù,,ù%ò ù...ù† øšù,,ø³øˆ-ù,,øšøª (øÉùˆù,, 72 øµùˆøšø)øˆ
 øšù,,øªùš ùšøªù... øªø±øªùšøˆ ù‡øšø øˆ ùˆøšø³øˆ øˆ ø¹ù...ùˆøˆ FPS
 øˆ øšù,,øªø±øªùšøˆ øšù,,øÉù†øˆ ø± øøù,,ù%ò øšù,,øÉøµøˆø±. ùˆøˆ øšù,,øªøšù,,ùšøˆ
 ùšù...øˆù,, øšù,,øµùˆøšø 73 øšù,,ù,ùšù...øˆ 95 ù,,øšø³øªøˆøˆøšù... ù...ø¹øˆù,,
 øšù,,øªøˆùˆù,,. ù‡ù†øšù† øšù†øø±øšùˆ ù...øªùˆù,ø¹ ù,,ù,ùšù...øˆ FPS ùˆùšù øšù,, 73
 ù...ù† â%ò^1 øøù,,ù%ò 2 øøøˆøšø± ù,,ù†ù,, ø«øšù†ùšøˆøˆ øˆ ø³øˆ øˆ
 øšù,,ø³øšøˆ øšøª øšù,,ø¹øˆø±ùšøˆ.

ùšø¹ø±øª øšù,,øÉù...ø± øšù,,øªøšù,,ùšù ù,ùšù...øˆ FPS øšù,,ù...øˆù...ø¹øˆ ù,,ù,,øµùˆøšø 73
 ù...ù† flow_collection_trendøˆ ùˆøšù,,øªùš ùšøªù... øªøˆ-ù...ùšø¹ù‡øšø ø³øˆ
 øšù,,øˆù,ùšù,øˆ ùˆùšøªù... øˆù,,øˆ ù‡øšø ø³øˆ FPS ùˆùšù øªø±øªùšøˆ øÉù†øˆ ø±
 øøù,,ù%ò øÉøµøˆø±:

```

/opt/vertica/bin/vsql -U dbadmin -w lanlcope -c "WITH minutes as
(select last_time as Timestamp, sum(fps) as fps, ROW_NUMBER() OVER (order by sum(fps) desc) as RowNumber
from flow_collection_trend
where last_time >= '2023-04-17 00:00' and last_time < '2023-04-18 00:00'
group by last_time)
select fps as '95thPercentile' from minutes where RowNumber=73;"
  
```

ùšø-øˆ øÉù† øªøˆøˆùˆ øšù,,ù...øˆø±øˆøšøª ù...øˆù,, øšù,,øµùˆø±øˆ øšù,,øªøšù,,ùšøˆ:

95thPercentile

68

(1 row)

95th Percentile of flow_collection_summary (2023-04-18) is 68. This is the value below which 95% of the data points fall. The data is summarized in the following table:

Flow Collection Summary	Value
flow_collection_summary	68

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسم ل ا ذه Cisco ت مچرت
م ل ا ل ا ا ن ا ع مچ ي ف ن ي م دخت س م ل ل م عد ي و ت ح م م ي دقت ل ة ي ر ش ب ل و
امك ة ق ي ق د ن و ك ت ن ل ة ي ل ا ة مچرت ل ض ف ا ن ا ة ظ ح ال م ي ج ر ي . ة ص ا خ ل ا م ه ت غ ل ب
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ال ا ة مچرت ل ا ع م ل ا ح ل ا و ه
ي ل ا ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا هذه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco
Systems (ر ف و ت م ط ب ا ر ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن ت س م ل ا