

Deploying ActiveGate

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Your Network Gateway to Dynatrace

ActiveGate is a lightweight component that routes traffic between your infrastructure and Dynatrace. This notebook covers when you need ActiveGate, how many to deploy, where to place them, and installation steps – including comprehensive Kubernetes deployment options.

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Prerequisites

- Admin access to Dynatrace environment
- Network architecture diagram (know your zones)
- Server for ActiveGate (Linux, Windows, or Kubernetes cluster)
- Outbound HTTPS (443) to Dynatrace SaaS

1. What is ActiveGate?

ActiveGate is a proxy and routing component that connects your environment to Dynatrace.

Component	Purpose
Environment ActiveGate	Routes OneAgent traffic, runs extensions, executes synthetics
Cluster ActiveGate	Dynatrace Managed only – cluster communication

> ****Note:**** This notebook covers Environment ActiveGate for Dynatrace SaaS.

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Optional but Recommended

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| Scenario | Benefit |
|-----|-----|
| **Large deployments (500+ hosts)** | Reduces outbound connections |
| **Multiple network zones** | Centralized routing per zone |
| **Bandwidth optimization** | Compresses and batches data |
| **Security compliance** | Single egress point for audit |
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Decision Tree

! [ActiveGate Decision Tree]

(data:image/svg+xml;base64,PHN2YzB4bWxuczoiaHR0cDovL3d3dy53My5vcmcvMjAwMC9zMmciIHZpZXh0cmVudCBpZD0iZHRlZG9wIG9mZnNldD0iMCA3MDAgNDUwIj4KICAgIDxsaW5kPSJzdG9wLWNvbG9yOImWZjE3MmElLz4KICAgICAgPHN0b3Agb2Zmc2V0PStxMDAlIBzdHlsZT0ic3RvcC1jb2xvcjojMWUyOTNiIi8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGxpbmVhckdyYWRpZW50IGlkPSJkdFF1ZXN0aw9uIiB4MT0iMCUiIHkxPSIwJSIgeDI9IjAlIiB5Mj0iMTAwJSI+CiAgICAgIDxzdG9wIG9mZnNldD0iMCA3MDAgNDUwIj4KICAgIDxsaW5kPSJzdG9wLWNvbG9yOImWZjE3MmElLz4KICAgICAgPHN0b3Agb2Zmc2V0PStxMDAlIBzdHlsZT0ic3RvcC1jb2xvcjojMTZmMmElLz4KICAgICAgPHN0b3Agb2Zmc2V0PStxMDAlIBzdHlsZT0ic3RvcC1jb2xvcjojMTZhMzRhIi8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGxpbmVhckdyYWRpZW50IGlkPSJkdFF1Y29tbWVuZGVkIiB4MT0iMCUiIHkxPSIwJSIgeDI9IjAlIiB5Mj0iMTAwJSI+CiAgICAgIDxzdG9wIG9mZnNldD0iMCA3MDAgNDUwIj4KICAgIDxsaW5kPSJzdG9wLWNvbG9yOImWZjE3MmElLz4KICAgICAgPHN0b3Agb2Zmc2V0PStxMDAlIBzdHlsZT0ic3RvcC1jb2xvcjojMjU2M2ViIi8+CiAgICA8L2xpbmVhckdyYWRpZW50PgogICAgPGZpbHRlcipZD0iZHRTaGFkb3ciIHg9Ii0yMCUiIHk9Ii0yMCUiIHdpZHRoPSIxNDAlIiBoZWlnaHQ9IjE0MCUiPgogICAgICA8ZmVEcm9wU2hhZG93IGR4PSIwIiBkeT0iMyIg3RkRGV2aWF0aW9uPSI0IiBmbG9vZC1vcGFjaXR5PSIwLjMiLz4KICAgIDwvZmlsdGVyPgogIDwvZGVmcz4KCIAgPCEtLSBCYWNRZ3JvdW5kIC0tPgogIDxyZWNOIHdpZHRoPSI3MDAiGHlaWdodD0iNDUwIiBmaWxsPSJ1cmwoI2R0QmcpIi8+CgogIDwhLS0gVGltbGUgLz4KICAgPHRleHQgeD0iMzUwIiB5PSIzMCIgZmlsbD0iI2Y4ZmFmYyIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxOCIGZm9udC13ZWlnaHQ9IjYwMCIgdGV4dC1hbmNob3I9Im1pZGRsZSI+RG8gWW91IE5lZWQgQWN0aXZlR2F0ZT88L3RleHQ+CgogIDwhLS0gUXVlc3Rpb24gMTogRGlyZWNOIEFfY2VzyAtLT4KICA8cG9seWdvbiBwb2ludHM9IjM1MCw1NSA0NTAsMTAwIDM1MCwxNDUgMjUwLDEwMCIgZmlsbD0idXJsKENkdFF1ZXN0aw9uKSIGZmlsdGVyPSJ1cmwoI2R0U2hhZG93KSIVPgogIDx0ZXh0IHg9IjM1MCIgeT0iOTUiIGZpbGw9IiMwZjE3MmElIGZvbntZmFtaWx5PSJzeXN0ZW0tdWksIHNNbnMt2VyayWiIGZvbntZtc2l6ZT0iMTAiIGZvbntZtd2VpZ2h0PSI2MDAiIHRleHQTYW5jaG9yPSJtaWRkbGUIPkRpcmVjdCBpbmRlcm5ldDwdvGV4dD4KICA8dGV4dCB4PSIzNTAiIHk9IjEwOCIGZmlsbD0iIzBmMTcyYSIGZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIgZm9udC13ZWlnaHQ9IjYwMCIgdGV4dC1hbmNob3I9Im1pZGRsZSI+ZnJvbSBhbGwgaG9zdHMPC90ZXh0PgoKICA8IS0tIE5vIHBhdGggLSBSZXFlaXZlZCAeLT4KICA8bGlusZSB4MT0imjUwIiB5MT0iMTAwIiB4MT0i

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3. How Many ActiveGates?

Sizing Guidelines

ActiveGate Size	OneAgents Supported	Memory	CPU
Small	Up to 500	2 GB	2 cores
Medium	500–1,500	4 GB	4 cores
Large	1,500–3,000	8 GB	8 cores
Extra Large	3,000–5,000	16 GB	16 cores

Detailed Hardware Requirements

Minimum System Requirements

Component	Minimum	Recommended
CPU	2 cores (x64)	4+ cores
RAM	2 GB	4+ GB
Disk Space	2 GB	10+ GB (for logs/cache)
Disk Type	HDD	SSD (for extensions)
Network	100 Mbps	1 Gbps

Operating System Support

OS	Supported Versions
RHEL/CentOS	7.x, 8.x, 9.x
Ubuntu	18.04, 20.04, 22.04, 24.04 LTS


```
| **Debian** | 10, 11, 12 |
| **Amazon Linux** | 2, 2023 |
| **SUSE** | 12 SP5, 15 SPx |
| **Windows Server** | 2016, 2019, 2022 |
```

Memory Sizing by Workload

```
| Workload Type | Base Memory | Additional per Feature |
|-----|-----|-----|
| **Routing Only** | 2 GB | - |
| **+ Extensions 2.0** | 2 GB | +1-2 GB per active extension |
| **+ Synthetic** | 2 GB | +1 GB per 10 monitors |
| **+ Cloud Integration** | 2 GB | +512 MB per cloud account |
| **+ Log Ingest** | 2 GB | +2 GB for high volume |
```

Disk Space Sizing

```
| Purpose | Space Required |
|-----|-----|
| **Base Installation** | 1.5 GB |
| **Log Files (default)** | 1-5 GB (rotated) |
| **Extension Cache** | 500 MB - 2 GB |
| **Synthetic Cache** | 500 MB - 1 GB |
| **Temporary Files** | 1 GB |
| **Recommended Total** | 10-20 GB |
```

> **Best Practice:** Mount `/opt/dynatrace` on a dedicated partition with at least 20 GB for production deployments.

High Availability

For production environments, deploy **at least 2 ActiveGates per network zone**:

```
| Deployment | ActiveGates | Purpose |
|-----|-----|-----|
| **Minimum HA** | 2 per zone | Failover capability |
| **Recommended** | 2-3 per zone | Load distribution + failover |
| **Large scale** | N+1 per zone | Capacity + redundancy |
```

> **Key Point:** OneAgents automatically load-balance across available ActiveGates and failover if one becomes unavailable.

Example Deployment

```
| Network Zone | Hosts | ActiveGates | Sizing | Memory | CPU |
|-----|-----|-----|-----|-----|-----|
| Production DMZ | 200 | 2 | Small | 2 GB each | 2 cores |
```

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W9tInVybCgjYXBCBHVLSKIgZmLsdGvYPJSJ1cmwoI2FwU2hhZG93KSIVPogIDx0ZXh0IHg9IjQwMiIgeT0iMTY5IiBmaWxsPSJ3aGl0ZSIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIgZm9udC13ZWlnaHQ9IjYwMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+RUMyPC90ZXh0PgoKICA8cmVjdCB4PSI0MzuUiHk9IjE1MCIGd2lkdGg9IjQ1IiBoZWlnaHQ9IjMwIiByeD0iMyIgZmlsbD0idXJsKCNhcEJsduUpIiBmaWx0ZXI9InVybcGjYXBTA6Fkb3cpIi8+CiaAgPHRleHQgeD0INDU3IIB5PSIXNjkiIGZpbGw9IndoaXRliBmb250LWZhbwLseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEwIiBmb250LXdlaWdodD0inJAwIiB0ZXh0LWFuY2hvcj0ibWlkZGxlIj5FS1M8L3RleHQ+CgogIDwhLS0gRHluYXRyYWNlIFNhYVMgKHJPz2h0KSA tLT4KICA8cmVjdCB4PSI1NDaiIHk9IjUwIiB3aWR0aD0iMTQwIiBoZWlnaHQ9IjE2MCIGcng9IjgiIGZpbGw9InVybcGjYXBHCmVlbikiIGZpbHRlcj0idXJsKCNhcFN0YwRvdykiLz4KICA8dGV4dCB4PSIMTAiIHk9IjkwIiBmaWxsPSIJMGYxNzJhIiBmb250LWZhbwLseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjE0IiBmb250LXdlaWdodD0inZAwIiB0ZXh0LWFuY2hvcj0ibWlkZGxlIj5Eew5hdHJhY2U8L3RleHQ+CiaAgPHRleHQgeD0inJEWIiB5PSIXMTAiIGZpbGw9IiMwZjE3MmEiIGZvbnQtZmFtaWx5PSJzeXN0ZW0tdWksIHNBnMtc2VyaWyIGZvbnQt c2l6ZT0iMTQiIGZvbnQt d2VpZ2h0PSI3MDAiIHRleHQ tYW5jaG9yPSJtaWRkbGU iPlNhYVM8L3RleHQ+CiaAgPHRleHQgeD0inJEwIiB5PSIXNDAiIGZpbGw9InJnYmEoMTUsMjMsNDIsMC43KSIGZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIg dGV4dC1hbmNob3I9Im1pZGRsZSI+SFRUUUFMg0jQ0MzwvdGV4dD4KICiAgPCEtLSBD b25uZWNoaw9uIEFYcm93cyAtIGRyYXduIEJfTE9XIGJveG VzIHNV IHRoZXkgZG9uJ3Qgb3ZlcmxhcCBjb250ZW50IC0tPgogIDwhLS0gSW50ZXJuYWwg dG8gRE1aIC0tPgogIDxsaW5lIHgxPSIXNjAiIHkxPSIXMTiiIHgyPSIXOTUiIHkyPSIXMTiiIHN0cm9rZT0iIzYwYT VmYSIGc3Ryb2t lLXd pZHRoPSIyIiBtYXJrZXItZW5kPSJ1cmwoI2FyckJsdWUpIi8+CiaAgPGxp bmUgeDE9IjE2MCIGeTE9IjE2NyIgeDI9IjE5NSIgeTI9IjE2NyIgc3Ryb2t lPSIjNjBhNWZhIiBzdHJva2Utd2lkdGg9IjIiIG1hcmtlci11bmQ9InVybcGjYXJyQmx1ZSkilZ4KC iAgPCEtLSBETVogdG8gRHluYXRyYWNlIchnb2VzIGJlbG93KSA tLT4KICA8cGF0aCBkPSJNMzIwIDEzMCMBMmZqWIDEzMCMBMmZqWIDIyMCMBMNTIwIDIyMCMBMNTIwIDEzMCMBMNTQwIDEzMCIgc3Ryb2t lPSIjMTRmMTk1IiBzdHJva2Utd2lkdGg9IjIiIGZpbGw9Im5vb mUiIG1hcmtlci11bmQ9InVybcGjYXJyR3JlZW4piI8+CgogIDwhLS0gQ2xvdWQgdG8gRHluYXRyYWNlIC0tPgogIDxsaW5lIHgxPSI1MDAiIHkxPSIXMTiiIHgyPSI1NDaiIHkyPSIXMTiiIHN0cm9rZT0iIzE0ZjE5NSIgc3Ryb2t lLXd pZHRoPSIyIiBtYXJrZXItZW5kPSJ1cmwoI2FyckdyZWVuKSIVPgoKICA8IS0tIFBvcnQgbGFizWxzIC0tPgogIDx0ZXh0IHg9IjE3NyIgeT0iMTA1IiBmaWxsPSIJnjBhNWZhIiBmb250LWZhbwLseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEwIj460Tk50TwvdGV4dD4KICA8dGV4dCB4PSI1MjAiIHk9IjEwNSI gZmlsbD0iIzE0ZjE5NSI gZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCI+0jQ0MzwvdGV4dD4KICA8dGV4dCB4PSI0MzAiIHk9IjIzNSI gZmlsbD0iIzE0ZjE5NSI gZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCI+0jQ0MzwvdGV4dD4KICiAgPCEtLSBCZXN0IFByYWN0aW NcyBCb3ggLS0+CiaAgPHJlY3QgeD0imJAiIHk9IjI0MCIGd2lkdGg9IjY2MCIGaGVpZ2h0PSIXNDUiIHJ4PSI4IiBmaWxsPSIJMWUyOTNiIiBzdHJva2U9IimzMzQxNTUiIHN0cm9rZS13aWR0aD0iMSIVPogIDx0ZXh0IHg9Ijm1MCIGeT0imJY1IiBmaWxsPSIJzjhYwZjiIiBmb250LWZhbwLseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmlmIiBmb250LXNpemU9IjEziIiBmb250LXdlaWdodD0inJAwIiB0ZXh0LWFuY2hvcj0ibWlkZGxlIj5QbGFjZW1lbnQgQmVzdCBQcmFjdGljZX M8L3RleHQ+CgogIDwhLS0gUHJhY3RyY2UgSXRLbxMGLS0+CiaAgPHJlY3QgeD0imZUiIHk9IjI4MCIGd2lkdGg9IjIwMCIGaGVpZ2h0PSI5MCIGcng9IjQiIGZpbGw9IiMwZjE3MmEiLz4KICA8dGV4dCB4PSIXMzUiIHk9IjMwMCIGZmlsbD0iI2Y10WUwYiIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMSI gZm9udC13ZWlnaHQ9IjYwMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+U2FtZSB0ZX R3b3JrIFpvbmU8L3RleHQ+CiaAgPHRleHQgeD0iMTM1IiB5PSIZMTgiIGZpbGw9Iim5NGEzYjgiIGZvbnQtZmFtaWx5PSJzeXN0ZW0tdWksIHNBnMtc2VyaWyIGZvbnQt c2l6ZT0iMTAiIHRleHQ tYW5jaG9yPSJtaWRkbGU iPlBSyYw

NlIEFHIGluIHNhbWUgem9uZTwvdGV4dD4KICA8dGV4dCB4PSIxMzUiIHk9IjMzMSIgZmlsbD0iIzk0YTNI0CIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+YXMgT25lQWdlbnRzIGl0IHNlcnZlcwvdGV4dD4KICA8dGV4dCB4PSIxMzUiIHk9IjM1NCIgZmlsbD0iIzY0NzQ4YiIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+TWluaW1pemVzIGZpcmV3YWxsIHJ1bGVzPC90ZXh0PgoKICA8cmVjdCB4PSIyNTAiIHk9IjI4MCIGd2lkdGg9IjIwMCIgagVpZ2h0PSI5MCIgcn9IjQiIGZpbGw9IiMwZjE3MmEiLz4KICA8dGV4dCB4PSIzNTAiIHk9IjMwMCIgZmlsbD0iIzYyZU1ZSIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMSIgZm9udC13ZWlnaHQ9IjYwMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+SGlnaCBDbmFpbGFiawxpdHk8L3RleHQ+CiAgPHRleHQgeD0iMzUwIiB5PSIzMTgiIGZpbGw9IiM5NGEzYjgiIGZvbnQtZmFtaWx5PSJzeXN0ZW0tdWksIHNhbnMtc2VyaWYiIGZvbnQtY2l6ZT0iMTAiIHRleHQtYW5jaG9yPSJtaWRkbGUiPkrLcGxveSAyKyBBY3RpdmVHYXRlcwvdGV4dD4KICA8dGV4dCB4PSIzNTAiIHk9IjMzMSIgZmlsbD0iIzk0YTNI0CIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+cGVyIHpvbmUgZm9yIHByb2R1Y3RpY248L3RleHQ+CiAgPHRleHQgeD0iMzUwIiB5PSIzNTQIiIGZpbGw9IiM2NDc0GIIiIGZvbnQtZmFtaWx5PSJzeXN0ZW0tdWksIHNhbnMtc2VyaWYiIGZvbnQtY2l6ZT0iMTAiIHRleHQtYW5jaG9yPSJtaWRkbGUiPkrF1dG8gbG9hZC1iYWxhbmNlICsgZmFpbG92ZXI8L3RleHQ+CgogIDxyZWNOIHg9IjQ2NSIgeT0iMjgwIiB3aWR0aD0iMjAwIiBoZWlnaHQ9IjkwIiB5eD0iNCIgZmlsbD0iIzBmMTcyYSIvPgogIDx0ZXh0IHg9IjU2NSIgeT0iMzAwIiBmaWxsPSIjM2I4MmY2IiBmb250LWZhbnWlseT0ic3lzdGVtLVXVpLCBzYW5zLXNlcmIiBmb250LXNpemU9IjExIiBmb250LXdlaWdodD0iNjAwIiB0ZXh0LWFuY2hvcj0ibWlkZGx1Ij5DbG91ZCBJbnRlZ3JhdGlvbGwvdGV4dD4KICA8dGV4dCB4PSI1NjUiIHk9IjMxOCIGZmlsbD0iIzk0YTNI0CIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+T25lIEFHIIHBlciBUUEMvVk5ldDwvdGV4dD4KICA8dGV4dCB4PSI1NjUiIHk9IjMzMSIgZmlsbD0iIzk0YTNI0CIgZm9udC1mYW1pbHk9InN5c3RlbS11aSwgc2Fucy1zZXJpZiIgZm9udC1zaXplPSIxMCIGdGV4dC1hbmNob3I9Im1pZGRsZSI+Zm9yIGNsb3VkaG91bGw9IjBmY2l6ZT0iMTAiIHRleHQtYW5jaG9yPSJtaWRkbGUiPlB1bGxzeIEFXUy9BenVyZS9HQ1AgbWV0cmlljcwvdGV4dD4KPC9zdmc+Cg==)

Placement Rules

Rule	Description
Same network zone	AG should be in same zone as OneAgents it serves
Outbound access	AG needs HTTPS to *.dynatrace.com
Inbound from agents	OneAgents connect to AG on port 9999
Low latency	Place AG close to monitored workloads

Cloud-Specific Guidance

Cloud	Recommendation
AWS	Deploy in management VPC or shared services subnet
Azure	Hub VNet with peering to spoke VNets
GCP	Shared VPC host project
Kubernetes	Deploy as StatefulSet or standalone VM outside cluster

5. Generating Tokens

ActiveGate requires a PaaS token for installation.

****Location:**** Settings → Integration → Platform as a Service

Or use the API token approach:

Required Token Scopes

Scope	API Name	Purpose
PaaS integration – Installer download	`InstallerDownload`	Download ActiveGate installer

Additional Scopes by Use Case

Use Case	Additional Scopes
AWS Monitoring	`aws.supportedServicesRead`
Azure Monitoring	`azure.supportedServicesRead`
Extensions 2.0	`extensions.read`, `extensions.write`
Synthetic Private Location	`syntheticLocations.write`

Token Naming Convention

Use descriptive names:

- `prod-activegate-dmz`
- `aws-activegate-useast1`
- `k8s-activegate-cluster1`

6. Installation Methods

Linux Installation

```
```bash
Download the installer
wget -O Dynatrace-ActiveGate.sh \
 "https://{tenant-id}.live.dynatrace.com/api/v1/deployment/installer/gateway/unix/latest?Api-Token={paas-token}"

Make executable and run
chmod +x Dynatrace-ActiveGate.sh
sudo ./Dynatrace-ActiveGate.sh
```
```

Windows Installation

```
```powershell
Download the installer
Invoke-WebRequest -Uri "https://{tenant-id}.live.dynatrace.com/api/v1/deployment/installer/gateway/windows/latest?Api-Token={paas-token}" -OutFile Dynatrace-ActiveGate.exe

Run the installer
.\Dynatrace-ActiveGate.exe
```
```

Container Deployment (Docker/Podman)

```
```bash
docker run -d --name dynatrace-activegate \
 -e DT_TENANT="{tenant-id}" \
 -e DT_API_TOKEN="{paas-token}" \
 -p 9999:9999 \
 dynatrace/activegate:latest
```
```

Installation Parameters

| Parameter | Purpose | Example |
|---------------------------------|-----------------------------|-------------------------------------|
| <code>--set-network-zone</code> | Assign to network zone | <code>--set-network-zone=dmz</code> |
| <code>--set-group</code> | Group for management | <code>--set-group=production</code> |
| <code>--enable-synthetic</code> | Enable synthetic capability | <code>--enable-synthetic</code> |

6a. Kubernetes Deployment (Detailed)

Deploying ActiveGate in Kubernetes requires careful consideration of where, how, and when to use containerized ActiveGates vs. traditional VM deployments.

When to Deploy ActiveGate in Kubernetes

| Scenario | Deploy in K8s? | Reasoning |
|---|----------------|--|
| Cluster-only monitoring | ✅ Yes | Co-located with workloads, simplifies networking |
| Routing for in-cluster OneAgents | ✅ Yes | Lower latency, no external hops |
| Extensions 2.0 for K8s resources | ✅ Yes | Direct access to cluster APIs |
| Multi-cluster routing | ⚠️ Consider | May need external AG for cross-cluster |

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C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
ibWlkZGxliIbMaWxsPSIjYTViNGZjIiBmb250LWZhbWlseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmNm
IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
ibWlkZGxliIbMaWxsPSIjYTViNGZjIiBmb250LWZhbWlseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmNm
IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
ibWlkZGxliIbMaWxsPSIjYTViNGZjIiBmb250LWZhbWlseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmNm
IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
ibWlkZGxliIbMaWxsPSIjYTViNGZjIiBmb250LWZhbWlseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmNm
IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
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IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
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C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
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C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
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IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
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IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwIiB0ZXh0LWFuY2hvcj0
ibWlkZGxliIbMaWxsPSIjYTViNGZjIiBmb250LWZhbWlseT0ic3lzdGVtLXVpLCBzYW5zLXNlcmNm
IiBmb250LXNpemU9IjEwIj5IVFRQUyA6NDQzPC90ZXh0PgoKICA8IS0tIEV4dGVybmFsIEhvc3RzI
C0tPgogIDxyZWNoIHg9IjYwMCIgeT0iMjgwIiB3aWR0aD0iMTcwIiBoZWlnaHQ9IjgwIiByeD0iOC
IgzMlsbD0iIzY0NzQ4YiIvPgogIDx0ZXh0IHg9IjY4NSIgeT0iMjMwI

Kubernetes Hardware Requirements

Method 1: Dynatrace Operator (Recommended)

```
```yaml
dynakube.yaml - ActiveGate via Operator
apiVersion: dynatrace.com/v1beta2
kind: DynaKube
```

```
metadata:
 name: dynakube
 namespace: dynatrace
spec:
 apiUrl: https://{tenant-id}.live.dynatrace.com/api

 # ActiveGate configuration
 activeGate:
 # Capabilities to enable
 capabilities:
 - routing # Route OneAgent traffic
 - kubernetes-monitoring # K8s API monitoring
 - dynatrace-api # Proxy Dynatrace API calls

 # Resource sizing
 resources:
 requests:
 cpu: "500m"
 memory: "1Gi"
 limits:
 cpu: "2000m"
 memory: "2Gi"

 # Number of replicas (HA)
 replicas: 2

 # Tolerations for dedicated nodes
 tolerations:
 - key: "dedicated"
 operator: "Equal"
 value: "dynatrace"
 effect: "NoSchedule"

 # Node selector (optional)
 nodeSelector:
 node-type: monitoring

 # Custom properties
 customProperties:
 value: |
 [connectivity]
 networkZone=kubernetes

 # Labels
 labels:
 app.kubernetes.io/component: activegate
 ...
```

**\*\*Install with Operator:\*\***

```bash

Create namespace

kubectl create namespace dynatrace

Create secret with tokens

kubectl -n dynatrace create secret generic dynakube \
 --from-literal=apiToken=dt0c01.XXXXXXXXXX \
 --from-literal=paasToken=dt0c01.YYYYYYYY

Install Dynatrace Operator via Helm

helm repo add dynatrace

<https://raw.githubusercontent.com/Dynatrace/dynatrace-operator/main/config/helm/repos/stable>

helm repo update

helm install dynatrace-operator dynatrace/dynatrace-operator \
 --namespace dynatrace \
 --set installCRD=true

Apply DynaKube configuration

kubectl apply -f dynakube.yaml

```

### Method 2: Helm Chart (Standalone)

For more control, use the standalone ActiveGate Helm chart:

```bash

Add Dynatrace Helm repo

helm repo add dynatrace

<https://raw.githubusercontent.com/Dynatrace/dynatrace-operator/main/config/helm/repos/stable>

helm repo update

Create values file

cat > activegate-values.yaml << 'EOF'

apiUrl: "https://{tenant-id}.live.dynatrace.com/api"

activeGate:

replicas: 2

capabilities:

- routing
- kubernetes-monitoring

resources:

```

    requests:
      cpu: 500m
      memory: 1Gi
    limits:
      cpu: 2
      memory: 2Gi

# Persistent storage for logs
persistence:
  enabled: true
  size: 10Gi
  storageClassName: gp3

# Service configuration
service:
  type: ClusterIP # or LoadBalancer for external access

# Environment variables
env:
  - name: DT_NETWORK_ZONE
    value: "kubernetes"

# Token from existing secret
existingSecret: dynatrace-tokens
EOF

# Install
helm install activegate dynatrace/dynatrace-activegate \
  --namespace dynatrace \
  --values activegate-values.yaml
```


Method 3: Raw Kubernetes Manifests

For complete control, use raw manifests:


```

```yaml
activegate-namespace.yaml
apiVersion: v1
kind: Namespace
metadata:
 name: dynatrace

activegate-secret.yaml
apiVersion: v1
kind: Secret
metadata:
 name: dynatrace-tokens

```


```



```

    namespace: dynatrace
type: Opaque
stringData:
  apiToken: "dt0c01.XXXXXXXXXXXXXXXXXX"
  paasToken: "dt0c01.YYYYYYYYYYYYYYYY"
---
# activegate-configmap.yaml
apiVersion: v1
kind: ConfigMap
metadata:
  name: activegate-config
  namespace: dynatrace
data:
  custom.properties: |
    [connectivity]
    networkZone=kubernetes

    [collector]
    MaxIncomingConnections=2000
---
# activegate-statefulset.yaml
apiVersion: apps/v1
kind: StatefulSet
metadata:
  name: activegate
  namespace: dynatrace
  labels:
    app: activegate
spec:
  serviceName: activegate
  replicas: 2
  selector:
    matchLabels:
      app: activegate
  template:
    metadata:
      labels:
        app: activegate
    spec:
      serviceAccountName: dynatrace-activegate
      containers:
        - name: activegate
          image: dynatrace/activegate:latest
          imagePullPolicy: Always
          env:
            - name: DT_TENANT
              value: "{tenant-id}"
            - name: DT_API_TOKEN

```

```
      valueFrom:
        secretKeyRef:
          name: dynatrace-tokens
          key: paasToken
    - name: DT_CAPABILITIES
      value: "routing,kubernetes_monitoring"
  ports:
    - containerPort: 9999
      name: ag-https
  resources:
    requests:
      cpu: "500m"
      memory: "1Gi"
    limits:
      cpu: "2000m"
      memory: "2Gi"
  volumeMounts:
    - name: config
      mountPath: /var/lib/dynatrace/gateway/config/custom.properties
      subPath: custom.properties
    - name: ag-data
      mountPath: /var/lib/dynatrace/gateway
  livenessProbe:
    httpGet:
      path: /rest/health
      port: 9999
      scheme: HTTPS
    initialDelaySeconds: 30
    periodSeconds: 15
  readinessProbe:
    httpGet:
      path: /rest/health
      port: 9999
      scheme: HTTPS
    initialDelaySeconds: 30
    periodSeconds: 5
  volumes:
    - name: config
      configMap:
        name: activegate-config
  volumeClaimTemplates:
    - metadata:
        name: ag-data
      spec:
        accessModes: ["ReadWriteOnce"]
        storageClassName: gp3
        resources:
          requests:
```

```

        storage: 10Gi
---
# activegate-service.yaml
apiVersion: v1
kind: Service
metadata:
  name: activegate
  namespace: dynatrace
spec:
  type: ClusterIP # Change to LoadBalancer for external access
  selector:
    app: activegate
  ports:
    - port: 443
      targetPort: 9999
      name: https
---
# Headless service for StatefulSet DNS
apiVersion: v1
kind: Service
metadata:
  name: activegate-headless
  namespace: dynatrace
spec:
  clusterIP: None
  selector:
    app: activegate
  ports:
    - port: 9999
      name: ag-https
```


Exposing ActiveGate for External Access

If external hosts need to route through the K8s ActiveGate:


```

```yaml
Option 1: LoadBalancer Service
apiVersion: v1
kind: Service
metadata:
 name: activegate-external
 namespace: dynatrace
 annotations:
 # AWS NLB
 service.beta.kubernetes.io/aws-load-balancer-type: "nlb"
 service.beta.kubernetes.io/aws-load-balancer-scheme: "internal"
spec:

```


```

```

    type: LoadBalancer
    selector:
      app: activegate
    ports:
      - port: 443
        targetPort: 9999
---
# Option 2: Ingress (with TLS passthrough)
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: activegate-ingress
  namespace: dynatrace
  annotations:
    nginx.ingress.kubernetes.io/ssl-passthrough: "true"
    nginx.ingress.kubernetes.io/backend-protocol: "HTTPS"
spec:
  ingressClassName: nginx
  rules:
    - host: activegate.internal.example.com
      http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: activegate
                port:
                  number: 443
...

### Platform-Specific Configurations

#### Amazon EKS

```yaml
EKS-specific annotations
apiVersion: v1
kind: Service
metadata:
 name: activegate
 namespace: dynatrace
 annotations:
 service.beta.kubernetes.io/aws-load-balancer-type: "nlb"
 service.beta.kubernetes.io/aws-load-balancer-internal: "true"
 service.beta.kubernetes.io/aws-load-balancer-cross-zone-load-balancing-
enabled: "true"
spec:

```

```

 type: LoadBalancer
 # ...
```

#### Azure AKS

```yaml
AKS-specific annotations
apiVersion: v1
kind: Service
metadata:
 name: activegate
 namespace: dynatrace
 annotations:
 service.beta.kubernetes.io/azure-load-balancer-internal: "true"
spec:
 type: LoadBalancer
 # ...
```

```

```

#### Google GKE

```yaml
GKE-specific annotations
apiVersion: v1
kind: Service
metadata:
 name: activegate
 namespace: dynatrace
 annotations:
 cloud.google.com/load-balancer-type: "Internal"
spec:
 type: LoadBalancer
 # ...
```

```

High Availability in Kubernetes

| Configuration | Setting |
|-------------------------|----------------------|
| **Replicas** | 2-3 for production |
| **Pod Anti-Affinity** | Spread across nodes |
| **PodDisruptionBudget** | minAvailable: 1 |
| **Resource Requests** | Guarantee scheduling |

```

```yaml
Pod Anti-Affinity for HA
spec:

```



```

 affinity:
 podAntiAffinity:
 requiredDuringSchedulingIgnoredDuringExecution:
 - labelSelector:
 matchLabels:
 app: activegate
 topologyKey: kubernetes.io/hostname

PodDisruptionBudget
apiVersion: policy/v1
kind: PodDisruptionBudget
metadata:
 name: activegate-pdb
 namespace: dynatrace
spec:
 minAvailable: 1
 selector:
 matchLabels:
 app: activegate
```

```

7. Verifying Deployment

After installation, verify ActiveGate is connected and healthy.

```

```dql
// List all ActiveGates and their status
fetch dt.entity.active_gate
| fields entity.name, state
| sort entity.name
```

```

```

```dql
// Check ActiveGate versions
fetch dt.entity.active_gate
| fields entity.name, state
| sort entity.name
```

```

```




```dql
// Count ActiveGates
fetch dt.entity.active_gate
| summarize ag_count = count()
```

```

Verification via UI

****Location:**** Deployment status → ActiveGates

Check for:

-  Status: Connected
-  Version: Latest or recent
-  Modules: Expected capabilities enabled

Verification Commands

****Linux:****

```bash

# Check service status

sudo systemctl status dynatracegateway

# Check connectivity

curl -k https://localhost:9999/communication/health

# View logs

sudo tail -100 /var/log/dynatrace/gateway/gateway.log

```

****Windows:****

```powershell

# Check service status

Get-Service -Name "Dynatrace ActiveGate"

# Check connectivity

Invoke-WebRequest -Uri "https://localhost:9999/communication/health" -  
SkipCertificateCheck

```

8. Troubleshooting

Common Issues

Issue	Cause	Solution
Not appearing in UI	Network blocked	Check firewall for 443 outbound
Shows disconnected	Service stopped	Restart dynatracegateway service
OneAgents not routing	Wrong network zone	Verify zone configuration
High memory usage	Too many agents	Add another AG or increase RAM
Certificate errors	Self-signed cert issue	Trust Dynatrace CA or use custom cert

Network Verification

```
```bash
Test outbound to Dynatrace
curl -v https://{tenant-id}.live.dynatrace.com/communication/health

Test ActiveGate is listening
netstat -tlnp | grep 9999

Test from OneAgent host
curl -k https://{activegate-ip}:9999/communication/health
```
```

Log Locations

| OS | Log Path |
|---------|---|
| Linux | <code>/var/log/dynatrace/gateway/`</code> |
| Windows | <code>C:\ProgramData\dynatrace\gateway\log\`</code> |

9. Next Steps

With ActiveGate deployed:

1. **ONBRD-04: Deploying OneAgent** – Now deploy agents that route through ActiveGate
2. Configure network zones if using multiple ActiveGates
3. Enable additional modules (synthetic, extensions) as needed
4. Set up monitoring for ActiveGate itself

Deployment Checklist

Traditional (VM/Bare Metal)

- [] ActiveGate deployed in each required network zone
- [] At least 2 per zone for HA (production)
- [] Status shows "Connected" in Dynatrace
- [] Firewall rules configured (443 out, 9999 in)
- [] Network zones configured (if applicable)
- [] Sizing appropriate for expected OneAgent count

Kubernetes

- [] Dynatrace Operator installed (recommended)
- [] DynaKube CR applied with activeGate configuration
- [] Replicas set to 2+ for production HA
- [] Resource requests/limits configured
- [] PodDisruptionBudget created
- [] Pod anti-affinity configured for spread across nodes
- [] Service type appropriate (ClusterIP vs LoadBalancer)

Summary

In this notebook, you learned:

- What ActiveGate does and its capabilities
- When ActiveGate is required vs. optional
- Hardware requirements and sizing guidelines
- How to size and plan ActiveGate deployment
- Where to place ActiveGates in your network
- Installation methods for Linux, Windows, and containers
- **Kubernetes deployment** using Operator, Helm, or raw manifests
- Platform-specific configurations for EKS, AKS, and GKE
- How to verify successful deployment

References

General

- [ActiveGate Overview](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-activegate>)
- [ActiveGate Installation](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-activegate/installation>)
- [Network Zones](<https://docs.dynatrace.com/docs/manage/network-zones>)
- [ActiveGate Sizing](<https://docs.dynatrace.com/docs/setup-and-configuration/dynatrace-activegate/activegate-sizing>)
- [Private Synthetic Locations](<https://docs.dynatrace.com/docs/platform-modules/digital-experience/synthetic-monitoring/private-synthetic-locations>)

Kubernetes

- [Dynatrace Operator](<https://docs.dynatrace.com/docs/setup-and-configuration/setup-on-k8s/installation>)
- [Dynatrace Operator GitHub](<https://github.com/Dynatrace/dynatrace-operator>)
- [ActiveGate on Kubernetes](<https://docs.dynatrace.com/docs/setup-and-configuration/setup-on-k8s/guides/operation/activegate>)
- [DynaKube Custom Resource](<https://docs.dynatrace.com/docs/setup-and-configuration/setup-on-k8s/reference/dynakube>)
- [Helm Chart Repository](<https://github.com/Dynatrace/dynatrace-operator/tree/main/config/helm>)